Prepared for

Georgia Power Company
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Atlanta, Georgia 30308

2024 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

PLANT BRANCH ASH PONDS B, C, & D

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CERTIFICATION STATEMENT

This *2024 Annual Groundwater Monitoring and Corrective Action Report, Plant Branch Ash Ponds B, C, & D* has been prepared in compliance with the Georgia Environmental Protection Division Rules for Solid Waste Management 391-3-4-.10 by a qualified groundwater scientist or engineer with Geosyntec Consultants, Inc. I hereby certify that I am a qualified groundwater scientist, in accordance with the Georgia Rules of Solid Waste Management 391-3-4-.01.

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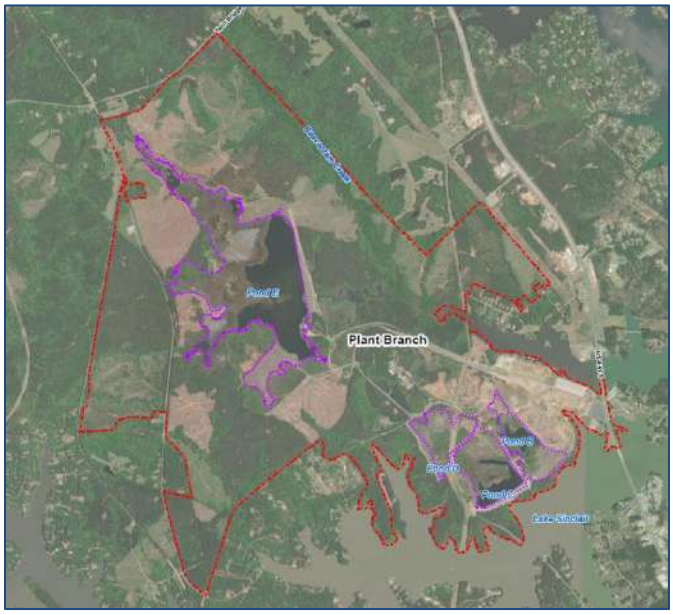
SUMMARY

This summary of the *2024 Annual Groundwater Monitoring and Corrective Action Report* provides the status of the groundwater monitoring and corrective action program for the reporting period of July 2023 through June 2024 (referred herein as the "annual reporting period") at the Georgia Power Company (Georgia Power) Plant Branch Ash Ponds B, C, and D (AP-BCD) (the Site). This summary was prepared by Geosyntec Consultants, Inc. (Geosyntec) on behalf of Georgia Power to meet the requirements listed in Georgia Environmental Protection Division (GA EPD) Rules for Solid Waste Management 391-3-4-.10, and by reference, Part A, Section 6[1] of the United States Environmental Protection Agency (USEPA) Coal Combustion Residual Rule (CCR Rule) (40 Code of Federal Regulations [CFR] 257 Subpart D).

Plant Branch is located at 1100 Milledgeville Road, approximately 8 miles north of Milledgeville in Putnam County, Georgia. Plant Branch formerly operated as a coal-fired electric generating facility, until its decommissioning in July 2015, at which point it ceased producing electricity. CCR materials resulting from power generation were historically transferred and stored at five ash ponds (AP-) (i.e., A, B, C, D, and E). Ash Pond A was taken out of service in the late 1960s and was closed in April 2016. Ash Ponds B, C, D, and E are inactive, and will be closed by removal and relocation of its stored CCR to a fully lined and permitted landfill located on the plant property. As required in the CCR Rule, this Annual Report describes the status of the groundwater monitoring program, summarizes key actions completed, describes any problems encountered, discusses actions to resolve the problems, and presents projected key activities for the upcoming year for AP-BCD. The other CCR unit (AP-E) at Plant Branch is reported separately.



Plant Branch and the Site

[1] 80 FR 21468, Apr. 17, 2015, as amended at 81 FR 51807, Aug. 5, 2016; 83 FR 36452, July 30, 2018; 85 FR 53561, Aug. 28, 2020

Groundwater at the Site is monitored using a comprehensive well network that meets federal and state monitoring requirements. Routine sampling and reporting began after the background groundwater conditions were established between 2016 and 2018. Based on groundwater conditions at the Site, an assessment monitoring program was established on November 13, 2019, and the Site entered into an assessment of corrective measures on July 9, 2020. During the annual reporting period, the Site remained in assessment monitoring as corrective measures are being evaluated.

Site groundwater elevation measurements were recorded at monitoring wells and piezometers prior to each semiannual assessment monitoring event. The elevation data were used to confirm the groundwater flow direction, and to confirm that the groundwater monitoring well network for the CCR units remains sufficient to monitor groundwater downgradient of the unit.

During this annual reporting period, the semiannual assessment monitoring events for AP-BCD were conducted by Atlantic Coast Consulting (ACC) in August 2023 and January 2024. In order to meet the requirements of GA EPD Rule 391-3-4-.10(6) and § 257.95 (b) and (d)(1) of the CCR Rule, these semiannual assessment monitoring events included sampling and analysis of all Appendix III and Appendix IV constituents. Groundwater samples were submitted to GEL Laboratories, LLC, for analysis. Surface water samples were submitted to Pace Analytical Services, LLC, for analysis. Per the CCR Rule, groundwater results from these sampling events were evaluated in accordance with the certified statistical methods. That evaluation showed statistically significant values of Appendix III[2] and Appendix IV[3] constituents in wells listed in the tables below.

[2] Boron, calcium, chloride, fluoride, pH, sulfate, and total dissolved solids (TDS)
[3] Antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, fluoride, lead, lithium, mercury, molybdenum, selenium, thallium, and radium 226 + 228

Appendix III Parameter	August 2023	January 2024
Boron	BRGWC-25I, BRGWC-27I, BRGWC-29I, BRGWC-30I, BRGWC-32S, BRGWC-47, BRGWC-50, BRGWC-52I	BRGWC-25I, BRGWC-27I, BRGWC-29I, BRGWC-30I, BRGWC-32S, BRGWC-47, BRGWC-50, BRGWC-52I
Calcium	BRGWC-25I, BRGWC-27I, BRGWC-29I, BRGWC-30I, BRGWC-32S, BRGWC-45, BRGWC-47, BRGWC-50, BRGWC-52I	BRGWC-25I, BRGWC-27I, BRGWC-29I, BRGWC-30I, BRGWC-32S, BRGWC-45, BRGWC-47, BRGWC-50, BRGWC-52I
Chloride	BRGWC-25I, BRGWC-29I, BRGWC-45, BRGWC-50, BRGWC-52IS	BRGWC-25I, BRGWC-29I, BRGWC-45, BRGWC-50, BRGWC-52I
Fluoride	BRGWC-50	BRGWC-50
pH (lower limit)	BRGWC-29I, BRGWC-50	BRGWC-29I, BRGWC-50
Sulfate	BRGWC-25I, BRGWC-27I, BRGWC-29I, BRGWC-30I, BRGWC-32S, BRGWC-45, BRGWC-47, BRGWC-50, BRGWC-52I	BRGWC-25I, BRGWC-27I, BRGWC-29I, BRGWC-30I, BRGWC-32S, BRGWC-45, BRGWC-47, BRGWC-50, BRGWC-52I
TDS	BRGWC-25I, BRGWC-27I, BRGWC-29I, BRGWC-30I, BRGWC-32S, BRGWC-47, BRGWC-50	BRGWC-25I, BRGWC-27I, BRGWC-29I, BRGWC-30I, BRGWC-32S, BRGWC-47, BRGWC-50, BRGWC-52I
Appendix IV Parameter	**August 2023**	**January 2024**
Beryllium	BRGWC-50, PZ-58I, PZ-60I	BRGWC-50, PZ-58I, PZ-60I
Cadmium	BRGWC-50, PZ-60I	BRGWC-50, PZ-60I
Cobalt	BRGWC-50, PZ-51I, PZ-58I, PZ-60I, PZ-61I	BRGWC-50, PZ-51I, PZ-58I, PZ-60I, PZ-61I, PZ-63I, PZ 64I
Lithium	PZ-60I	PZ-60I
Selenium	BRGWC-32S	BRGWC-32S

During this annual reporting period, an alternate source demonstration (ASD) was prepared and initially submitted to GA EPD on February 28, 2024 with a revision submitted on July 5, 2024. This ASD addresses the beryllium, cadmium, cobalt, and lithium statistically significant levels (SSLs) reported in BRGWC-50, PZ-51I, PZ-58I, PZ-60I, PZ-61I, PZ-63I, and PZ-64I. A summary of this ASD is presented in Section 5 and the complete ASD report is attached as **Appendix D**. This ASD report satisfies the requirements of GA EPD Rule 391-3-4-.10(6) and § 257.95 of the CCR Rule, for compliance with groundwater monitoring requirements for assessment monitoring at AP-B. Therefore, this *Annual Groundwater Monitoring and Corrective Action Report* does not include a *Remedy Selection and Design Progress Report*, and the *Draft Remedy Selection Report* does not discuss these SSLs in the vicinity of AP-B, which is part of the multi-unit CCR unit, AP-BCD. Revisions to the CCR groundwater monitoring network in the vicinity of AP-B will be included in the next *Semiannual Groundwater Monitoring and Corrective Action Report* to be submitted in February 2025 should GA EPD approve the ASD prior to that time.

Based on a review of the Appendix III and Appendix IV statistical results completed for the groundwater monitoring and corrective action program from July 2023 through June 2024, the Site will continue in assessment monitoring. Georgia Power will continue routine groundwater monitoring and reporting at the Site. Reports will be posted to Georgia Power's CCR Rule Compliance website and provided to GA EPD semiannually. A *Draft Remedy Selection Report*, which summarizes the evaluation and proposed selection of a corrective measure, or measures, for AP-D will be submitted separately to GA EPD following this report.

TABLE OF CONTENTS

SUMMARY i

1.0 INTRODUCTION 1
1.1 Site Description and Background 2
1.2 Regional Geology and Hydrogeologic Setting 3
1.2.1 Regional and Site Geology 3
1.2.2 Hydrogeologic Setting 4
1.3 Groundwater Monitoring Well Network 4

2.0 GROUNDWATER MONITORING ACTIVITIES 6
2.1 Monitoring Well Installation and Maintenance 6
2.2 Assessment Monitoring 6
2.3 Additional Sampling and Surface Water Sampling 7

3.0 SAMPLING METHODOLOGY AND ANALYSES 9
3.1 Groundwater Elevation Measurement 9
3.2 Groundwater Gradient and Flow Velocity 9
3.3 Groundwater Sampling Procedures 11
3.4 Laboratory Analyses 12
3.5 Quality Assurance and Quality Control Summary 12

4.0 STATISTICAL ANALYSIS 13
4.1 Statistical Methods 13
4.1.1 Appendix III Statistical Methods 13
4.1.2 Appendix IV Statistical Methods 14
4.2 Statistical Analyses Results 15
4.2.1 August 2023 Data 15
4.2.2 January 2024 Data 15
4.2.3 Summary of Statistical Analyses 16

5.0 NATURE AND EXTENT 17
5.1 Selenium 17
5.2 Beryllium, Cadmium, Cobalt, and Lithium Alternate Source Demonstration 17

6.0 MONITORING PROGRAM STATUS 20

6.1 Assessment Monitoring Status 20
6.2 Assessment of Corrective Measures 20

7.0 CONCLUSIONS AND FUTURE ACTIONS 22

8.0 REFERENCES 23

LIST OF TABLES

Table 1 Monitoring Well Network Summary
Table 2 Groundwater Sampling Event Summary
Table 3 Summary of Groundwater Elevations
Table 4 Horizontal Gradient and Flow Velocity Calculations
Table 5 Summary of Groundwater Analytical Data
Table 6 Summary of Surface Water Analytical Data
Table 7 Summary of Background Concentrations and Groundwater Protection Standards

LIST OF FIGURES

Figure 1 Site Location Map
Figure 2 Monitoring Well Network and Surface Water Location Map
Figure 3 Potentiometric Surface Contour Map – August 2023
Figure 4 Potentiometric Surface Contour Map – January 2024
Figure 5 Iso-Concentration Map, Selenium – August 2023
Figure 6 Iso-Concentration Map, Selenium – January 2024

LIST OF APPENDICES

Appendix A Well Maintenance and Repair Documentation Memoranda
Appendix B Laboratory Analytical Results and Field Sampling Forms
Appendix C Statistical Analysis Reports
Appendix D Alternate Source Demonstration – Beryllium, Cadmium, Cobalt, and Lithium – Plant Branch – Ash Pond B

LIST OF ACRONYMS

ACC	Atlantic Coast Consulting
ACM	Assessment of Corrective Measures
AP	ash pond
ASD	alternate source demonstration
CCR	coal combustion residuals
CFR	Code of Federal Regulations
DO	dissolved oxygen
FCPA	Former Coal Pile Area
ft/day	feet per day
ft/ft	feet per foot
GA EPD	Georgia Environmental Protection Division
GCSM	geochemical conceptual site model
GEL Laboratories	GEL Laboratories, LLC.
Georgia Power	Georgia Power Company
Geosyntec	Geosyntec Consultants, Inc.
GSC	Groundwater Stats Consulting
GWPS	Groundwater Protection Standard
HAR	Hydrogeologic Assessment Report
K_h	horizontal hydraulic conductivity
MNA	monitored natural attenuation
MCL	Maximum Contaminant Level
mg/L	milligram per liter
NELAP	National Environmental Laboratory Accreditation Program
NTU	Nephelometric turbidity units
ORP	oxidation-reduction potential
PL	prediction limit
PWR	partially weathered rock
QA/QC	Quality Assurance/Quality Control
SSI	statistically significant increase
SSL	statistically significant level
s.u.	standard unit
TDS	total dissolved solids
TWR	transitionally weathered rock
Unified Guidance	Statistical Analysis of Groundwater Data at RCRA Facilities Unified Guidance
USEPA	United States Environmental Protection Agency

1.0 INTRODUCTION

In accordance with the United States Environmental Protection Agency (USEPA) Coal Combustion Residual Rule (CCR Rule) (40 Code of Federal Regulations [CFR] Part 257, Subpart D) and the Georgia Environmental Protection Division (GA EPD) Rules for Solid Waste Management 391-3-4-.10, Geosyntec Consultants, Inc. (Geosyntec) has prepared this *2024 Annual Groundwater Monitoring and Corrective Action Report* to document groundwater monitoring activities conducted at Georgia Power Company (Georgia Power) Plant Branch (Site) Ash Ponds B, C, and D (AP-BCD) for the reporting period of July 2023 through June 2024 (referred to herein as the "annual reporting period").

Groundwater monitoring and reporting for AP-BCD are performed in accordance with the monitoring requirements of the GA EPD Rules for Solid Waste Management 391-3-4-.10(6), but also in accordance with the CCR Rule, specifically § 257.90 through § 257.95. This report documents the activities completed to establish the groundwater monitoring program in accordance with GA EPD Rule 391-3-4-.10(6)(a). To specify groundwater monitoring requirements, GA EPD Rule 391-3-4-.10(6)(a) incorporates by reference the CCR Rule. For ease of reference, the CCR Rule regulations are cited within this report, in lieu of citing both sets of regulations.

Plant Branch ceased producing electricity prior to April 2015, and therefore, Ash Ponds B, C, and D are not subject to the federal monitoring requirements, though GA EPD rule 391-3-4-.10(6)(a) promulgates the groundwater monitoring and corrective action regulations stipulated in the federal CCR Rule § 257.90 through § 257.95. A CCR Unit Solid Waste Handling Permit application for AP-BCD was submitted to GA EPD in November 2018 and is under review.

Due to statistically significant increases (SSIs) of Appendix III parameters identified in the *2019 Annual Groundwater Monitoring and Corrective Action Report* (Golder, 2019), Georgia Power initiated an assessment monitoring program for AP-BCD on November 13, 2019. Statistically significant levels (SSLs) of Appendix IV parameters cadmium (Cd) and cobalt (Co) were identified during the initial assessment monitoring event. Georgia Power then initiated an assessment of corrective measures (ACM) program on July 9, 2020. Pursuant to § 257.96(b), Georgia Power continues to monitor groundwater associated with AP-BCD in accordance with the assessment monitoring program established for the unit in 2019, including semiannual monitoring and reporting pursuant to § 257.90 through § 257.95 of the CCR Rule.

Downgradient of AP-D, an SSL of selenium (Se) has been identified in BRGWC-32S. A *Draft Remedy Selection Report*, which summarizes the evaluation and proposed selection of a corrective measure, or measures, for the selenium SSL at AP-D will be submitted separately to GA EPD following this report (Geosyntec, 2024b).

In the vicinity of AP-B, the following SSLs have been identified: cadmium (BRGWC-50 and PZ-60I); cobalt (BRGWC-50, PZ-51I, PZ-58I, PZ-60I, PZ-61I, PZ-63I, and PZ 64I); beryllium (Be) (BRGWC-50, PZ-58I, and PZ-60I), and lithium (Li) (PZ-60I). The new SSLs identified during the current annual reporting period include beryllium at BRGWC-50, lithium at PZ-60I, and cobalt at PZ-63I and PZ 64I. The SSLs in the vicinity of AP-B have been documented in the annual and semiannual groundwater monitoring and corrective action reports since the initiation of the assessment monitoring program. However, based on a robust data collection and analysis to develop a multiple lines of evidence approach, these SSLs of cadmium, cobalt, beryllium, and lithium in the vicinity of AP-B are attributed to low pH groundwater flow from the adjacent, former coal pile instead of migration from AP-B.

An ASD was prepared and initially submitted to GA EPD on February 28, 2024 with a revision submitted on July 5, 2024, to address the beryllium, cadmium, cobalt, and lithium SSLs reported for BRGWC-50, PZ-51I, PZ-58I, PZ-60I, PZ-61I, PZ-63I, and PZ-64I (Geosyntec, 2024a). This ASD attributes the observed SSLs to migration from the former coal pile instead of AP-B. GA EPD review of the initial ASD report resulted in a request for additional sulfate isotope data from wells downgradient of AP-C and AP-D to confirm isotopic signatures consistent with an ash pond or natural source rather than a coal pile source. The additional wells for isotope analysis were sampled and analyzed during this reporting period. New data from the two wells at AP-C and AP-D confirm the previous interpretation and support the conclusion that groundwater SSLs in the vicinity of AP-B are due migration of groundwater from the former coal pile and not migration of groundwater flow from AP-B. A summary of the revised ASD is presented in Section 5 and the revised ASD report is attached as **Appendix D**.

1.1 Site Description and Background

Plant Branch is located in Putnam County, Georgia, approximately 8 miles north of Milledgeville. The property occupies approximately 3,200 acres and is bordered on the south and east by Lake Sinclair and by sparsely populated, forested, rural land on the north and west. Lake Sinclair is an approximately 15,330-acre hydroelectric reservoir that was created in 1953 by the impoundment of the Oconee River. Ash ponds B, C, and D (AP-BCD) are located on the southeast corner of the Plant surrounded by Lake Sinclair

on the south, rural land on the north and west, and the former coal pile and Ash Pond A on the east (**Figure 1**). The physical address of the Site is 1100 Milledgeville Road, Milledgeville, Georgia, 31024.

The Site formerly operated as a coal-fired power plant that commenced power generation in 1965. Over the course of power generation at the facility, five CCR surface impoundments (ash ponds), identified as Ash Ponds A, B, C, D, and E, were utilized. The location of each ash pond is shown on **Figure 1**. The former AP-A, the first ash pond constructed at the facility, was taken out of service in the late 1960s and was closed in April 2016 by the removal and relocation of its stored CCR to AP-E. AP-BCD and AP-E are currently not active and will be closed by removal, specifically, by relocation of the CCR stored in those ash ponds to a new, permitted, on-site CCR landfill.

This report documents the groundwater monitoring program at the multi-unit AP-BCD. As previously noted, groundwater monitoring activities completed at Plant Branch's AP-E are reported separately.

1.2 Regional Geology and Hydrogeologic Setting

The following section summarizes the geologic and hydrogeologic conditions at AP-BCD as described in the *Hydrogeologic Assessment Report Revision 01 – AP-BCD* (HAR Rev 01) submitted to GA EPD in November 2020 to provide information regarding the hydrogeologic conditions and the groundwater monitoring well network at the Site (Geosyntec, 2020b).

1.2.1 Regional and Site Geology

The Site is located within the Piedmont Physiographic Province of central Georgia, which is characterized by gently rolling hills and narrow valleys, with locally pronounced linear ridges. Generally, the property slopes gently east and south toward Beaverdam Creek and Lake Sinclair. The metamorphic and igneous rocks that underlie the area have been subjected to physical and chemical weathering which has created a landscape dissected by creeks and streams. Bedrock is typically overlain by a variably thick blanket of residual soils and saprolite. The overall depth of weathering in the Piedmont/Blue Ridge is generally about 20 to 60 feet; however, the depth of weathering along discontinuities and/or very mafic rock units may extend to depths greater than 100 feet. Because of such variations in rock types and structure, the depth of weathering can vary significantly over short horizontal distances. The bedrock underlying the saprolite is fine- to medium-grained, poorly jointed biotite-quartz-feldspar gneiss.

Based on our review of available data, micaceous, locally saprolitic soils, consisting primarily of clay, silty clay, silt, and sandy clay occur as a variably thick blanket of residuum overlying bedrock across most of the Site. The thickness of the residual soil encountered in AP-BCD borings is variable, ranging from approximately 10 feet to as much as 75 feet. Between the residual soil/saprolite zone and the underlying bedrock there is a zone of transitionally weathered rock (TWR) or partially weathered rock (PWR), as defined by standard penetration test data, where available. Material overlying the top of rock surface, including residual soil/saprolite and TWR/PWR, is collectively referred to as overburden.

1.2.2 Hydrogeologic Setting

The uppermost aquifer at the Site is an unconfined regional groundwater aquifer that occurs primarily in the saprolite, PWR, and fractured bedrock. While the aquifer characteristics of each unit may vary, the groundwater is interpreted to be interconnected between these units, and they effectively act as one unconfined aquifer. Generally, the water table surface at the Site is a subdued reflection of topography, with groundwater generally flowing east, west, and south. Downward hydraulic gradients dominate in the topographically high areas, while upward gradients are observed in topographic lows. Recharge to the fractured bedrock aquifer system comes primarily from precipitation that is stored in the overburden and slowly infiltrates to the bedrock through areas of enhanced permeability. Interconnected fractures are the primary conduit for groundwater flow through bedrock since the rock lacks primary porosity.

1.3 Groundwater Monitoring Well Network

In accordance with § 257.91, a groundwater monitoring system was installed at AP-BCD that consists of a sufficient number of wells installed at appropriate locations and depths to yield groundwater samples from the uppermost aquifer to represent the groundwater quality both upgradient of the unit (i.e., background conditions) and passing the waste boundary of the unit. The number, spacing, and depths of the groundwater monitoring wells were selected based on the characterization of site-specific hydrogeologic conditions.

Based on the Site hydrogeology, the monitoring well system is designed to monitor groundwater flow in the overburden, the transition-zone, and the upper bedrock as a single interconnected aquifer system. Wells suffixed with an “S” are installed in overburden (saprolitic soil), an “I” indicates TWR/PWR and the upper fractured mantle of bedrock (transition zone), and “D” indicates a screened zone in the deeper bedrock.

Construction details for the wells and piezometers associated with evaluating groundwater flow and/or quality conditions in vicinity of AP-BCD are listed in **Table 1**. The locations of the detection monitoring wells and assessment monitoring wells are shown on **Figure 2**. Pursuant to § 257.195(g)(1)(iv), assessment monitoring wells will continue to be sampled concurrently with the detection monitoring well network as part of the ongoing assessment groundwater monitoring program.

An on-site network of piezometers is used to gauge water levels to define groundwater flow direction and gradients and to understand potential changes related to seasonal fluctuations or site activities. The piezometers may be sampled as needed to support the AP-BCD ACM program. The piezometer locations are shown on the potentiometric surface maps generated for this annual reporting period (**Figures 3** and **4**, discussed in detail in Section 3).

2.0 GROUNDWATER MONITORING ACTIVITIES

In accordance with § 257.90(e), the following describes monitoring-related activities performed during this reporting period and discusses any change in status of the monitoring program. Groundwater sampling was performed in accordance with § 257.93.

2.1 Monitoring Well Installation and Maintenance

No new monitoring wells or piezometers were installed during the annual reporting period. However, assessment wells PZ-51S, PZ-57I, PZ-59I, PZ-62I, PZ-65I, and PZ-66I were reclassified as piezometers following the August 2023 semiannual assessment monitoring event (**Table 1**) and therefore are not sampled during the semiannual assessment monitoring events. These piezometers were installed and previously sampled to delineate constituent concentrations showing SSLs near AP-B. The piezometers may be sampled, as necessary, in support of the ACM program.

On July 5, 2024, a revised ASD was submitted to address SSLs in the vicinity of AP-B. Should GA EPD approve this ASD for AP-B, the following detection and assessment wells in the vicinity of AP-B and downgradient of the former coal pile will be reclassified as piezometers and will no longer be sampled during the semiannual assessment monitoring events: BRGWC-50, PZ-50D, PZ-51I, PZ-51D, PZ-58I, PZ-60I, PZ-61I, PZ-63I, and PZ-64I. An additional update to the groundwater monitoring network pending ASD approval includes the reclassification of PZ-44 as a detection monitoring well instead of assessment monitoring well.

The well and piezometer networks are inspected semiannually to evaluate if any repairs or corrective actions are necessary to meet the requirements of the Georgia Water Well Standards Act (O.C.G.A. § 12-5-134(5)(d)(vii)). In August 2023 and January 2024, the networks were inspected and no corrective actions were required, as documented in **Appendix A**. This documentation was prepared under the direction of a professional geologist or engineer registered in the State of Georgia.

2.2 Assessment Monitoring

Pursuant to § 257.94(e)(3), an assessment monitoring program was initiated for AP-BCD based on SSIs of Appendix III constituents documented in the *2019 Annual Groundwater Monitoring and Corrective Action Report* (Golder, 2019). A notice of assessment monitoring was placed in the operating record on November 13, 2019. An ACM program was initiated on July 9, 2020. Georgia Power completed an ACM report (Golder, 2020)

for AP-BCD at Plant Branch on December 4, 2020. In accordance with § 257.95(g)(3)(ii), an ASD was prepared and submitted to GA EPD on February 28, 2024, with a revision submitted on July 5, 2024, to address the beryllium, cadmium, cobalt, and/or lithium SSLs reported for BRGWC-50, PZ-51I, PZ-58I, PZ-60I, PZ-61I, PZ-63I, and PZ-64I (Geosyntec, 2024a). A *Draft Remedy Selection Report,* which summarizes the evaluation and proposed selection of a corrective measure, or measures, for the selenium SSL identified in BRGWC-32S in the vicinity of AP-D will be submitted separately to GA EPD following this report (Geosyntec, 2024b). In accordance with § 257.96(b), groundwater continues to be monitored at AP-BCD under the assessment monitoring program while the ACM phase is implemented.

In support of the routine assessment monitoring program, semiannual assessment monitoring events were conducted in August 2023 and January 2024. The wells sampled during these events and the dates associated with the events are summarized in **Table 2**. The collected groundwater samples were analyzed for the complete list of Appendix III and Appendix IV constituents.

Field data, field calibration forms, well inspection logs, laboratory analytical results, and data validation reports associated with the sampling events are provided in **Appendix B**. Details of the events and analytical results are discussed in Section 3.

2.3 Additional Sampling and Surface Water Sampling

Supplemental sampling was conducted during the reporting period in support of the ACM program and in continuing to evaluate the nature and extent of target constituents showing SSLs in groundwater in the vicinity of AP-BCD. Supplemental groundwater samples were collected from the monitoring well network during the August 2023 and January 2024 assessment monitoring events and were analyzed for major cations (calcium, magnesium, potassium, and sodium), major anions (chloride, nitrate, sulfate), and alkalinity (i.e., bicarbonate, carbonate, total) as well as iron, manganese, and sulfide. The laboratory reports associated with the data are provided in **Appendix B**.

Due to the presence of surface water features downgradient of AP-BCD, Georgia Power proactively collected surface water samples from discrete (surface, middle, and/or bottom) depths at eight locations in Lake Sinclair on August 23, 2023 and January 31, 2024, as shown on **Figure 2**. The water samples were collected from the four locations downgradient of AP-B (LR+8, LR+8A, LR+9, and LR+9A) and were analyzed for Appendix III and cobalt, in addition to cations and anions (sodium, magnesium, potassium, and alkalinity). In addition, at two locations downgradient of AP-D (LS+3,

LS+3A), surface water samples were collected from discrete depths (surface and middle) and analyzed for Appendix III and selenium, in addition to cations and anions. One of these locations, LS+3A, is used to delineate selenium concentrations immediately downgradient of the AP-D wells identified to have SSLs of selenium (presented in Section 4). The remaining two surface water sampling locations (LR-1, LR+10) are considered to represent more general lake conditions. Depth discrete samples collected here are analyzed for Appendix III, cations and anions, and both cobalt and selenium. Surface water samples are collected in accordance with USEPA Region 4 Science and Ecosystem Support Division Operating Procedures for Surface Water Sampling SESDPROC 201-R4 (USEPA, 2016). The laboratory reports associated with the August 23, 2023 and January 31, 2024, surface water sampling events are provided in **Appendix B**. Georgia Power will continue collecting the surface water samples semiannually as needed to support the nature and extent evaluation.

3.0 SAMPLING METHODOLOGY AND ANALYSES

The following section presents a summary of the field sampling procedures that were implemented, and the groundwater sampling results that were obtained in connection with the assessment monitoring program conducted at AP-BCD during this annual reporting period.

3.1 Groundwater Elevation Measurement

Prior to each semiannual assessment monitoring event, a synoptic round of depth-to-groundwater-level measurements was recorded from all the wells and piezometers (including those associated with AP-E and the proposed new CCR landfill area) and used to calculate the corresponding groundwater elevations. The calculated groundwater elevations obtained in August 2023 and January 2024 at AP-BCD and AP-E are presented in **Table 3**. The surface water elevations for Lake Sinclair are obtained from Georgia Power.

The groundwater and surface water elevation data were used to prepare site-wide potentiometric surface maps for the August 2023 and January 2024 events, which are presented on **Figures 3** and **4**, respectively. The general direction of groundwater flow across AP-BCD is towards Lake Sinclair (south-southeast). This groundwater flow pattern is consistent with previous observations.

3.2 Groundwater Gradient and Flow Velocity

The horizontal groundwater hydraulic gradients within the uppermost aquifer at AP-BCD were calculated using the groundwater elevation data from the August 2023 and January 2024 events. Horizontal hydraulic gradients were calculated along the flow paths between BGWA-23S and BRGWC-30I proximal to AP-D, and between BRGWC-47 and BRGWC-50 in vicinity of AP-B and AP-C. The supporting calculations are presented in **Table 4.** The calculated hydraulic gradients associated with these well pairs for the annual reporting period are 0.029 feet per foot (ft/ft) and 0.013 ft/ft, respectively. The general trajectory of the flow paths used in the calculations and associated potentiometric contour lines are shown on **Figures 3** and **4**.

Groundwater flow rates at the Site were calculated based on the above hydraulic gradients, hydraulic conductivity from previous slug test results, and an estimated effective porosity of the screened horizon.

Horizontal hydraulic conductivity (K_h) values used in flow calculations range from 1.45 to 2.80 feet per day (ft/day) and were based on slug test data presented in the 2020 *Hydrogeologic Assessment Report Revision 01* (Geosyntec, 2020b) and collected subsequently. The average observed K_h estimates from each lithologic unit in which the well pairs were screened was used to produce a representative estimate of groundwater flow velocity. An estimated effective porosity of 0.20 is used to represent average conditions at AP-BCD which was derived based on the default values for effective porosity recommended by USEPA for a silty sand-type soil (USEPA, 1996). With these variables determined, and accounting for the averaged hydraulic gradient calculated between well pairs for the August 2023 and January 2024 events, horizontal flow velocities were calculated as below.

The approximate horizontal flow velocities associated with AP-BCD were calculated using the following derivative of Darcy's Law. The supporting calculations for the August 2023 and January 2024 semiannual events are presented in **Table 4**.

$$V = linear\ velocity = \frac{K_h * i}{n_e}$$

where:

V = Groundwater flow velocity $\left(\frac{feet}{day}\right)$

K_h = Horizontal Hydraulic Conductivity $\left(\frac{feet}{day}\right)$

i = Horizontal hydraulic gradient $\left(\frac{feet}{foot}\right) = \frac{h_1 - h_2}{L}$

h_1 and h_2 = Groundwater elevation at location 1 and 2

L = Distance between location 1 and 2

n_e = Effective porosity

The average groundwater flow velocity at the Site for this annual reporting period is approximately 0.25 ft/day across AP-BCD. The observed groundwater flow velocities are consistent with expected velocities in the Georgia Piedmont, are consistent with historical observations, and confirm the groundwater monitoring system as properly located to monitor the uppermost aquifer for AP-BCD at Plant Branch.

3.3 Groundwater Sampling Procedures

Groundwater samples were collected using low-flow sampling procedures in accordance with § 257.93(a). Purging and sampling was performed using dedicated bladder pumps with dedicated tubing, non-dedicated bladder pumps, and peristaltic pumps. For wells sampled with non-dedicated bladder and peristaltic pumps, the pump intake was lowered to the midpoint of the well screen (or as appropriate based on the groundwater level). Non-dedicated bladder pump and peristaltic pump samples were collected using new disposable polyethylene tubing; all non-dedicated tubing was disposed of following the sampling event. All non-disposable equipment was decontaminated before use and between well locations.

An AquaTROLL® (In-Situ field instrument) was used to monitor and record field water quality parameters [i.e., pH, conductivity, dissolved oxygen (DO), temperature, and oxidation reduction potential (ORP)] during well purging to verify stabilization prior to sampling. Turbidity was monitored using a LaMotte 2020we (or similar) portable turbidity meter. Groundwater samples were collected once the following stabilization criteria were met:

- pH ± 0.1 Standard Units (s.u.).
- Conductivity ± 5%.
- ±0.2 milligrams per liter (mg/L) or ±10% (whichever is greater) for DO > 0.5 mg/L. No criterion applies if DO < 0.5 mg/L, record only.
- Turbidity measured less than 5 nephelometric turbidity units (NTU) or measured between 5 and 10 NTU following three hours of purging.

Following purging, and once stabilization was achieved, unfiltered samples were collected into appropriately preserved laboratory-supplied sample containers. Sample bottles were placed in ice-packed coolers and submitted to GEL Laboratories, LLC (GEL Laboratories) in Charleston, South Carolina, following chain-of-custody protocol. The field sampling and equipment calibration forms generated during the annual reporting period are provided in **Appendix B**.

During the August 2023 and January 2024 events, low yielding wells were encountered that purged dry and required sample collection the following day due to low recharge rates in accordance with the field sampling plan for low yielding wells. Assessment well

PZ-50D purged dry during the August 2023 event and assessment well PZ-68D purged dry during the January 2024 event.

3.4 Laboratory Analyses

Groundwater laboratory analyses were performed by GEL Laboratories, and surface water analyses were performed by Pace Analytical Services, LLC, (Peachtree Corners, Georgia), both of which are accredited by the National Environmental Laboratory Accreditation Program (NELAP). GEL Laboratories and Pace Analytical Services maintain a NELAP certification for the Appendix III and Appendix IV constituents and the geochemical parameters analyzed for this project. Analytical methods used for sample analysis are listed in the analytical laboratory reports included in **Appendix B**.

The groundwater results from the annual reporting period are summarized in **Table 5**. Surface water analytical results from the August 2023 and January 2024 monitoring events are summarized in **Table 6**.

3.5 Quality Assurance and Quality Control Summary

Quality assurance/quality control (QA/QC) samples were collected during each sampling event at the minimum rate of one QA/QC sample per 10 groundwater samples and included the following: field duplicates, equipment blanks, and field blank samples. QA/QC samples were collected in appropriately preserved laboratory-provided sample containers and submitted under the same chain of custody as the primary samples for analysis of the same constituents by GEL Laboratories.

In addition to collecting QA/QC samples, the data were validated based on the pertinent methods referenced in the laboratory reports, professional and technical judgment, and applicable federal guidance documents (USEPA, 2011; USEPA, 2017). Where necessary, the data were qualified with supporting documentation and justifications. The validated data are considered usable for meeting project objectives. The associated data validation reports are provided in **Appendix B**, along with the laboratory reports.

4.0 STATISTICAL ANALYSIS

The following section summarizes the statistical analysis of Appendix III groundwater monitoring data performed pursuant to § 257.93. In addition, pursuant to § 257.95(d)(2), Georgia Power established Groundwater Protection Standards (GWPS) for the Appendix IV constituents and completed statistical analyses of the Appendix IV groundwater monitoring data obtained during the August 2023 and January 2024 assessment monitoring events. The data were analyzed by Groundwater Stats Consulting (GSC); the reports generated from the analyses are provided in **Appendix C**.

4.1 Statistical Methods

The selected statistical method for AP-BCD was developed in accordance with § 257.93(f) using methodology presented in Statistical Analysis of Groundwater Data at USEPA document *Statistical Analysis of Groundwater Data at RCRA Facilities Unified Guidance* (Unified Guidance) (USEPA, 2009). The Sanitas™ Groundwater statistical software was used to perform the statistical analyses. Sanitas™ is a decision-support software package, which incorporates the statistical tests required of Subtitle C and D facilities by USEPA regulations and guidance as recommended in the Unified Guidance.

Appendix III statistical analysis was performed to assess if Appendix III constituents have returned to background levels. Appendix IV constituents were evaluated to assess if concentrations statistically exceeded the established GWPS. Detailed statistical methods used for Appendix III and Appendix IV constituents are discussed in the statistical analysis reports provided in **Appendix C** and summarized in Sections 4.1.1 and 4.1.2. The GWPS were finalized pursuant to § 257.95(d)(2) and presented in **Table 7**.

4.1.1 Appendix III Statistical Methods

Statistical tests used to evaluate the groundwater monitoring data consist of interwell prediction limits (PLs) combined with a 1-of-2 verification resample plan for each of the Appendix III parameters. Upgradient well data were pooled to establish a background limit for an individual constituent, and the most recent sample from each downgradient well was compared to the statistical limit for each parameter to determine if concentrations exceeded background levels. The most recent sample from each downgradient well is compared to the background limit to assess whether there are SSIs. An "initial exceedance" occurs when an Appendix III constituent reported in the groundwater of a downgradient detection monitoring well exceeds the constituent's associated PL. The 1-of-2 resample plan allows for collection of an independent

resample. A confirmed exceedance is noted only when the resample confirms the initial exceedance by also exceeding the statistical limit. If the resample falls within its respective PL, no exceedance is declared. The Sen's Slope/Mann Kendall trend test was used to statistically evaluate concentration levels over time and determine if concentrations are increasing, decreasing, or stabilizing.

4.1.2 Appendix IV Statistical Methods

To statistically compare groundwater data to GWPS, confidence intervals are constructed for each of the detected Appendix IV constituents in each downgradient detection and assessment monitoring well with a minimum of four samples. In accordance with Section 21.1.1 of the Unified Guidance (USEPA, 2009), four independent data are the minimum population size recommended to construct confidence intervals required to assess SSLs for Appendix IV constituents. Due to previous non-routine sampling, some Appendix IV constituents at a well location have differing number of analytical data points.

The confidence intervals are compared to the GWPS. Only when the entire confidence interval is above a GWPS is the well/constituent pair considered to exceed its GWPS. If a confidence interval exceeds a GWPS, an SSL exceedance is identified.

USEPA revised the CCR Rule on July 30, 2018, updating GWPS for cobalt, lead, lithium, and molybdenum. As described in § 257.95(h)(1-3), the GWPS is defined by the below criteria. These criteria were adopted into the GA EPD Rules for Solid Waste Management 391-3-4-.10 on February 22, 2022.

(1) The maximum contaminant level (MCL) established under §141.62 and 141.66.

(2) Where an MCL has not been established:

(i) Cobalt: 0.006 mg/L;

(ii) Lead: 0.015 mg/L;

(iii) Lithium: 0.040 mg/L; and

(iv) Molybdenum: 0.1 mg/L.

(3) Background levels for constituents where the background level is higher than the MCL or rule specified GWPS.

Following the above requirements, GWPS have been established for statistical comparison of Appendix IV constituents and are presented in **Table 7**.

4.2 Statistical Analyses Results

Based on review of the Appendix III statistical analysis of August 2023 and January 2024 data presented in **Appendix C**, groundwater conditions have not returned to background and assessment monitoring should continue pursuant to § 257.95(f). A detailed list of the noted exceedances is provided in **Appendix C**.

Based on the statistical analysis of Appendix IV constituents, the following constituents exceeded the corresponding GWPS for the assessment monitoring event:

4.2.1 August 2023 Data

- Beryllium: BRGWC-50, PZ-58I and PZ-60I
- Cadmium: BRGWC-50 and PZ-60I
- Cobalt: BRGWC-50, PZ-51I, PZ-58I, PZ-60I, and PZ-61I
- Lithium: PZ-60I
- Selenium: BRGWC-32S

4.2.2 January 2024 Data

- Beryllium: BRGWC-50, PZ-58I and PZ-60I
- Cadmium: BRGWC-50 and PZ-60I
- Cobalt: BRGWC-50, PZ-51I, PZ-58I, PZ-60I, PZ-61I, PZ63I, and PZ64I
- Lithium: PZ-60I
- Selenium: BRGWC-32S

With the submittal of the initial and revised ASD reports on February 28, 2024 and July 5, 2024 (Geosyntec, 2024a) for SSLs identified in the vicinity of AP-B, no further statistical analyses were performed for the beryllium, cadmium, cobalt, and lithium SSLs reported for BRGWC-50, PZ-51I, PZ-58I, PZ-60I, PZ-61I, PZ-63I, and PZ-64I. A detailed summary of this ASD is provided in Section 5. The selenium SSL identified in BRGWC-32S was further evaluated using the Sen's Slope/Mann Kendall trend test (**Appendix C**). A statistically significant increasing trend of selenium was identified during this annual reporting period in BRGWC-32S.

4.2.3 Summary of Statistical Analyses

The previous SSLs identified for the annual reporting period have remained generally consistent with the previous annual reporting period. In addition, a beryllium SSL was identified in BRGWC-50, cobalt SSLs were identified in PZ-63I and PZ-64I, and a lithium SSL was identified in PZ-60I. The ASD addressing SSLs in the vicinity of AP-B was updated, as necessary to incorporate these new SSLs, which are characterized as consistent with other locations near the Former Coal Pile Area (FCPA) and the result of migration of groundwater flow from the former coal pile.

5.0 NATURE AND EXTENT

5.1 Selenium

Delineation activities during the current annual reporting period focused on defining the nature and extent of selenium in groundwater downgradient of AP-D. Results from the delineation activities indicate that selenium is horizontally and vertically delineated below the site-specific GWPS. The nature and extent of selenium is delineated below the GPWS as follows:

- Selenium in detection well BRGWC-32S is horizontally delineated downgradient by surface water location LS+3A and groundwater location PZ-74I and vertically delineated by assessment well PZ-68D.

Specific details regarding the delineation activities at AP-D are discussed in the *Draft Remedy Selection Report* that will be submitted separately to GA EPD following this report. The groundwater data from the August 2023 and January 2024 semiannual assessment monitoring events were used to generate the selenium iso-concentration maps presented on **Figures 5 and 6**, respectively.

Detection and assessment wells will be monitored in future monitoring events. In accordance with Section 21.1.1 of the Unified Guidance (USEPA, 2009), statistical analysis will be performed to construct confidence intervals required to assess SSLs for Appendix IV constituents once sufficient data is available for new assessment wells PZ-68D, PZ-74I, and PZ-75I (i.e., a minimum of four independent samples required).

5.2 Beryllium, Cadmium, Cobalt, and Lithium Alternate Source Demonstration

An ASD was prepared and initially submitted to GA EPD on February 28, 2024, with a revision submitted on July 5, 2024, to address the beryllium, cadmium, cobalt, and lithium SSLs reported for BRGWC-50, PZ-51I, PZ-58I, PZ-60I, PZ-61I, PZ-63I, and PZ-64I (Geosyntec, 2024a). This ASD attributes the SSLs observed to migration from the former coal pile instead of AP-B. GA EPD review of the initial ASD report resulted in a request for additional sulfate isotope data from wells downgradient of AP-C and AP-D to confirm isotopic signatures consistent with an ash pond or natural source rather than a coal pile source. The additional wells for isotope analysis were sampled and analyzed during this reporting period. New data from the two wells at AP-C and AP-D confirm the previous interpretation and support the conclusion that groundwater SSLs in the vicinity

of AP-B are due migration of groundwater from the former coal pile and not migration of groundwater flow from AP-B. The revised ASD report is attached as **Appendix D**.

This ASD utilizes a multiple lines of evidence approach to conclude that the SSLs of beryllium, cadmium, cobalt, and lithium identified in detection and assessment monitoring wells (BRGWC-50, PZ-51I, PZ-58I, PZ-60I, PZ-61I, PZ-63I, and PZ-64I) in the vicinity of AP-B are not associated with a release from AP-B. Instead, the SSLs are attributed to (i) migration of acidic contact water generated by infiltration of water through the former coal pile causing oxidation of sulfide minerals and dissolution of trace inorganics associated with the coal; and (ii) acidic groundwater conditions downgradient of the former coal pile further facilitating mobilization of trace inorganics naturally occurring in the aquifer solids. A summary of the lines of evidence in support of the above conclusion is as follows:

- Detections of arsenic and cadmium in groundwater attributed to the former coal pile has been documented in a 2018 investigation that was previously submitted to GA EPD under the HSRA. Trace elements identified as SSL constituents are commonly identified in coal.

- The analytical and geochemical signature of groundwater in the SSL wells reflects notably high sulfate and conductivity concentrations, low boron concentrations, and low pH conditions in contrast to the high boron, low sulfate and conductivity, and high pH signature from AP-B interstitial water in the ash and in groundwater at other areas of AP-BCD. Additionally, the interstitial water in ash shows low or non-detect concentrations of beryllium, cadmium, and cobalt. Despite a single detection of lithium (0.29 mg/L) in interstitial water in 2019 (IW-B-2) above the GWPS, the lack of concentration gradient from this location to elevated concentrations in the FCPA indicates AP-B is not the source of the SSL.

- The wells showing SSLs are located downgradient of the former coal pile and show no evidence of a CCR impact (i.e., as compared to the geochemistry of AP-B interstitial water). In fact, these wells reflect similar geochemical composition observed in the groundwater underlying the former coal pile.

- A refined hydraulic flow analysis suggests that the SSL wells are predominantly hydraulically downgradient of and the result of impacts from the former coal pile.

- Stable oxygen and sulfur isotopes of sulfate indicate that the source of sulfate in the SSL wells is from pyrite oxidation of coal rather than coal combustion (i.e., sulfate released from coal ash).

As a result of the submittal of the revised ASD on July 5, 2024, the SSLs of beryllium, cadmium, cobalt, and lithium in the vicinity of AP-B are not further considered for remedy selection in the *Draft Remedy Selection Report* that will be submitted separately to GA EPD following this report. Revisions to the CCR groundwater monitoring network in the vicinity of AP-B will be included in the next *Semiannual Groundwater Monitoring and Corrective Action Report* to be submitted in February 2025 should GA EPD approve the ASD prior to that time.

6.0 MONITORING PROGRAM STATUS

6.1 Assessment Monitoring Status

Pursuant to § 257.96(b), Georgia Power will continue to monitor the groundwater at AP-BCD in accordance with the assessment monitoring program regulations of § 257.95 while ACM efforts are implemented to address SSL concentrations of selenium in BRGWC-32S. Pursuant to § 257.195(g)(1)(iv), the additional assessment wells will continue to be sampled as part of the ongoing assessment groundwater monitoring program.

6.2 Assessment of Corrective Measures

A *Draft Remedy Selection Repor*t for AP-D will be submitted to GA EPD following this report, in lieu of the *Semiannual Remedy Selection and Design Progress Report.* The *Draft Remedy Selection Report* submitted under separate cover to GA EPD will include a comprehensive description and compilation of the following content and documents:

i) An evaluation of corrective measure options using the comparative criteria such as long- and short-term effectiveness and protectiveness, source control effectiveness, and ease of implementation;

ii) The current groundwater geochemical conceptual site model (GCSM) applicable to evaluating groundwater corrective measures proposed in the ACM Report (Golder, 2020b);

iii) A risk evaluation; and

iv) A transport modeling investigation to assess the feasibility of the corrective action measures under consideration.

The *Draft Remedy Selection Report* presents hydraulic containment ("Pump and Treat") as the proposed groundwater remedy for selenium in groundwater at BRGWC-32S downgradient of AP-D, with a potential transition from this remedy to a geochemical injection remedy and/or monitored natural attenuation (MNA) to address residual selenium in a reduced plume footprint, if achieved.

In the interim of GA EPD's review of the *Draft Remedy Selection Report,* pre-design investigations and pilot testing are being planned to complete a detailed delineation of the selenium plume downgradient of AP-D and assess requirements needed to design an

extraction system capable of achieving hydraulic capture as part of the "Pump and Treat" proposed remedy. Should a transition to a geochemical injection remedy become favorable, further treatability studies will be evaluated at that time.

7.0 CONCLUSIONS AND FUTURE ACTIONS

This *2024 Annual Groundwater Monitoring and Corrective Action Report* for Plant Branch AP-BCD was prepared to fulfill the requirements of the CCR Rule and GA EPD Rules of Solid Waste Management 391-3-4-.10. The groundwater flow direction and rates interpreted during the August 2023 and January 2024 monitoring events are generally consistent with historical evaluations. Statistical analysis of the groundwater monitoring data for the AP-BCD well network confirmed the SSL of selenium in BRGWC-32S above corresponding GWPS near AP-D. Based on the most current data from this reporting period, as described in Section 5, the selenium SSL is vertically and horizontally delineated downgradient to below the GWPS. For the SSLs of beryllium, cadmium, cobalt, and lithium in wells located in the vicinity of AP-B and the former coal pile, Georgia Power submitted an ASD to GA EPD in February 2024, which was subsequently revised in July 2024, attributing the identified SSLs in BRGWC-50, PZ-51I, PZ-58I, PZ-60I, PZ 61I, PZ-63I, and PZ-64I to impacts from the former coal pile rather than AP-B. In accordance with GA EPD Rule 391-3-4-.10(6) and § 257.96, the Site continues in an ACM program.

Georgia Power will continue to monitor AP-BCD groundwater under the assessment monitoring program as aspects of the ACM program are implemented to address the Appendix IV SSLs. A *Draft Remedy Selection Report*, which summarizes the evaluation and proposed selection of a corrective measure, or measures, at AP-D will be submitted to GA EPD following this report. The next routine semiannual assessment monitoring event for AP-BCD is scheduled for August 2024. Progress made toward the pre-design investigation and other pilot studies will be documented as a summary in future semiannual and annual groundwater monitoring and corrective action reports.

8.0 REFERENCES

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TABLES

Table 1
Monitoring Well Network Summary
Plant Branch AP-BCD, Putnam County, Georgia

Well ID	Hydraulic Location	Installation Date	Easting [1]	Northing [1]	Ground Surface Elevation (ft)	Top of Casing Elevation [2] (ft)	Top of Screen Elevation [2] (ft)	Bottom of Screen Elevation [2] (ft)	Well Depth (ft BGS)	Screen Interval Length (ft)
AP-BCD Detection Monitoring Well Network										
BRGWA-2S	Upgradient BCD & E	4/2/2014	2549952.59	1167139.69	440.4	443.20	406.2	396.2	44.6	10
BRGWA-2I	Upgradient BCD & E	3/14/2014	2549957.26	1167129.90	440.5	443.14	386.6	376.6	64.3	10
BRGWA-5S	Upgradient BCD & E	4/3/2014	2549415.60	1170177.42	440.8	443.86	411.2	401.2	40.0	10
BRGWA-5I	Upgradient BCD & E	4/3/2014	2549407.91	1170183.54	441.1	443.79	390.3	380.3	61.2	10
BRGWA-6S	Upgradient BCD & E	4/1/2014	2551540.90	1170732.82	455.8	458.96	416.5	406.5	49.7	10
BRGWA-23S	Upgradient BCD	7/26/2016	2557868.25	1162971.84	425.5	428.24	394.7	384.7	40.8	10
BRGWC-25I	Downgradient B	7/25/2016	2561315.08	1160583.67	355.0	357.37	344.5	334.5	20.5	10
BRGWC-27I	Downgradient C	7/22/2016	2559712.12	1159695.33	364.0	366.86	350.0	340.0	24.0	10
BRGWC-29I	Downgradient C	7/23/2016	2561050.03	1160297.65	350.6	353.23	340.6	330.6	20.0	10
BRGWC-30I	Downgradient D	7/18/2016	2557691.84	1161607.69	350.0	352.61	340.0	330.0	20.3	10
BRGWC-32S	Downgradient D	7/20/2016	2558497.97	1160677.67	403.6	406.39	368.6	358.6	45.0	10
BRGWC-45	Downgradient B	2/3/2018	2561075.38	1162229.68	381.6	384.58	335.0	325.0	57.0	10
BRGWC-47	Downgradient D	1/25/2018	2559456.75	1162700.66	408.8	411.20	327.2	317.2	92.0	10
BRGWC-50	Downgradient B	1/31/2018	2562372.96	1161593.45	378.8	381.35	324.2	314.2	65.0	10
BRGWC-52I	Downgradient B	8/6/2018	2562145.22	1161274.99	381.2	383.87	317.3	307.3	73.9	10
AP-E Detection Monitoring Well Network										
BRGWA-2S	Upgradient BCD & E	4/2/2014	2549952.59	1167139.69	440.4	443.20	406.2	396.2	44.6	10
BRGWA-2I	Upgradient BCD & E	3/14/2014	2549957.26	1167129.90	440.5	443.14	386.6	376.6	64.3	10
BRGWA-5S	Upgradient BCD & E	4/3/2014	2549415.60	1170177.42	440.8	443.86	411.2	401.2	40.0	10
BRGWA-5I	Upgradient BCD & E	4/3/2014	2549407.91	1170183.54	441.1	443.79	390.3	380.3	61.2	10
BRGWA-6S	Upgradient BCD & E	4/1/2014	2551540.90	1170732.82	455.8	458.96	416.5	406.5	49.7	10
BRGWC-17S	Downgradient E	3/13/2014	2554687.84	1166301.32	362.2	365.32	360.5	355.5	7.1	5
BRGWC-33S	Downgradient E	7/26/2016	2554064.97	1168057.09	414.2	416.68	398.2	388.2	26.4	10
BRGWC-34S	Downgradient E	7/25/2016	2554231.28	1167384.17	389.2	391.96	376.2	366.2	23.0	10
BRGWC-35S	Downgradient E	7/23/2016	2554476.13	1166646.02	363.7	366.31	346.7	336.7	27.4	10
BRGWC-36S	Downgradient E	7/26/2016	2554693.26	1165742.82	383.1	389.84	364.4	354.4	28.7	10
BRGWC-37S	Downgradient E	7/24/2016	2554979.63	1165093.07	444.4	447.05	390.8	380.8	63.6	10
BRGWC-38S	Downgradient E	7/22/2016	2555016.50	1164391.82	429.8	432.24	402.0	392.0	38.2	10
AP-BCD Assessment Monitoring Well Network										
PZ-44	Downgradient B	2/2/2018	2561587.42	1161724.48	380.5	383.04	333.9	323.9	57.0	10
PZ-50D	Downgradient B	10/8/2020	2562380.34	1161589.51	378.3	380.86	282.3	272.3	106.0	10
PZ-51I	Downgradient B	8/1/2018	2562439.35	1161631.12	378.0	380.52	323.1	313.1	65.0	10
PZ-51D	Downgradient B	10/9/2020	2562433.15	1161640.16	378.1	380.75	282.1	272.1	106.0	10
PZ-58I	Downgradient B	3/27/2021	2562297.82	1161579.00	379.3	382.27	325.7	315.7	63.9	10
PZ-60I	Downgradient B	3/29/2021	2562330.79	1161588.01	379.5	382.61	329.0	319.0	60.8	10
PZ-61I	Downgradient B	3/30/2021	2562429.63	1161621.94	377.7	380.64	312.0	302.0	76.0	10
PZ-63I	Downgradient B	1/5/2022	2562233.10	1161371.20	378.6	381.31	332.1	322.1	56.5	10
PZ-64I	Downgradient B	9/10/2022	2562404.29	1161787.72	379.4	381.94	320.6	310.6	69.3	10
PZ-68D	Downgradient D	9/06/2022	2558512.90	1160690.48	402.5	405.25	328.8	318.8	84.3	10
PZ-74I	Downgradient D	5/24/2023	2557970.94	1160189.30	368.3	371.13	330.5	320.5	48.0	10
PZ-75I	Downgradient D	6/27/2023	2558343.03	1160009.37	354.9	357.86	337.9	327.9	27.4	10
AP-E Assessment Monitoring Well Network										
PZ-13S	Downgradient E	3/19/2014	2555276.64	1168011.19	406.5	409.97	382.2	372.2	34.7	10
PZ-52D	Downgradient E	5/14/2020	2554051.53	1168053.71	414.3	417.03	364.8	354.8	59.5	10
PZ-53D	Downgradient E	5/17/2020	2554984.36	1164393.74	431.6	434.68	302.2	292.2	139.4	10
PZ-70I	Downgradient E	8/16/2022	2555374.08	1164326.66	422.9	425.70	363.4	373.4	52.9	10
Piezometers										
PZ-1D	Upgradient BCD & E	4/4/2014	2551598.09	1171999.19	462.9	463.41	397.4	302.9	160.0	94.5
PZ-1I	Upgradient BCD & E	3/10/2014	2551577.63	1171995.75	461.9	464.71	392.8	382.8	79.5	10
PZ-1S	Upgradient BCD & E	3/20/2014	2551588.02	1171996.20	462.4	465.07	407.8	397.8	65.0	10
PZ-3D	Upgradient BCD & E	3/27/2014	2550275.05	1165474.25	486.7	487.50	438.7	358.6	130.0	82
PZ-3I	Upgradient BCD & E	3/11/2014	2550273.05	1165494.61	486.5	489.49	442.3	432.3	54.6	10
PZ-3S	Upgradient BCD & E	3/11/2014	2550274.66	1165484.43	487.0	490.53	457.5	447.5	39.9	10

Table 1
Monitoring Well Network Summary
Plant Branch AP-BCD, Putnam County, Georgia

Well ID	Hydraulic Location	Installation Date	Easting (1)	Northing (1)	Ground Surface Elevation (ft)	Top of Casing Elevation (2) (ft)	Top of Screen Elevation (2) (ft)	Bottom of Screen Elevation (2) (ft)	Well Depth (ft BGS)	Screen Interval Length (ft)
PZ-4I	Upgradient BCD & E	3/11/2014	2551282.08	1163246.61	479.9	482.98	443.5	433.5	46.8	10
PZ-4S	Upgradient BCD & E	3/10/2014	2551270.14	1163247.97	479.9	482.87	460.3	450.3	30.0	10
PZ-7S	Upgradient BCD & E	4/1/2014	2553055.64	1169419.33	449.0	451.57	414.9	404.9	44.5	10
PZ-8S	Upgradient BCD & E	4/1/2014	2551188.94	1167801.20	450.5	453.08	411.4	401.4	49.5	10
PZ-9S	Upgradient BCD & E	3/5/2014	2553089.53	1162633.36	466.1	469.28	428.5	418.5	48.0	10
PZ-10S	Downgradient E	3/5/2014	2554990.43	1164021.55	431.0	433.85	402.4	392.4	39.0	10
PZ-14I	Downgradient E	3/20/2014	2554365.65	1168398.28	419.9	422.71	376.5	366.5	53.8	10
PZ-14S	Downgradient E	3/20/2014	2554359.23	1168398.59	420.2	423.31	393.0	383.0	37.6	10
PZ-15I	Downgradient E	3/25/2014	2554399.25	1167721.02	400.2	403.06	321.9	311.9	88.7	10
PZ-15S	Downgradient E	3/27/2014	2554394.06	1167720.25	400.1	402.90	370.2	360.2	39.9	10
PZ-16I	Downgradient E	3/14/2014	2554587.53	1166980.59	379.5	382.45	351.3	341.3	38.6	10
PZ-16S	Downgradient E	3/18/2014	2554581.44	1166977.63	379.3	382.52	370.6	360.6	19.1	10
PZ-17I	Downgradient E	3/17/2014	2554702.42	1166313.81	362.3	365.33	329.2	319.2	43.5	10
PZ-18I	Downgradient D	2/26/2014	2557745.51	1160766.13	359.6	362.55	331.3	321.3	38.4	10
PZ-18S	Downgradient D	3/26/2014	2557747.42	1160757.41	359.7	362.82	345.0	335.0	24.2	10
PZ-19I	Downgradient C	3/4/2014	2558899.87	1159797.10	368.9	371.74	335.6	325.6	43.7	10
PZ-19S	Downgradient C	3/4/2014	2558894.60	1159805.43	368.4	371.42	350.8	340.8	28.0	10
PZ-20I	Downgradient C	3/5/2014	2560160.17	1159495.25	362.2	365.34	343.1	333.1	29.5	10
PZ-20S	Downgradient C	3/5/2014	2560157.16	1159490.13	362.2	365.41	357.3	347.3	15.3	10
PZ-21I	Downgradient B	3/10/2014	2561328.17	1160591.42	355.8	358.92	341.8	331.8	24.4	10
PZ-21S	Downgradient B	3/11/2014	2561321.43	1160592.45	355.5	358.52	351.1	346.1	9.8	5
PZ-23I	Upgradient BCD	7/29/2016	2557877.71	1162975.56	425.1	427.74	368.6	358.6	66.5	10
PZ-24S	Downgradient A	7/27/2016	2562862.19	1162400.95	351.4	354.10	319.9	309.9	42.0	10
PZ-26I	Downgradient B	7/26/2016	2561626.45	1160669.20	368.0	370.63	347.5	337.5	30.5	10
PZ-28I	Downgradient C	7/24/2016	2560151.53	1159505.00	362.5	364.81	348.5	338.5	24.0	10
PZ-31S	Downgradient D	7/26/2016	2557971.75	1160936.81	374.3	376.77	344.8	334.8	39.5	10
PZ-40S	Downgradient A	2/14/2017	2562807.61	1162415.06	353.2	355.96	324.4	314.4	40.2	10
PZ-41S	Downgradient A	2/14/2017	2562759.44	1162431.76	354.3	357.17	320.5	310.5	44.2	10
PZ-42S	Upgradient A	2/9/2017	2562734.89	1162845.64	359.0	361.66	337.2	327.2	32.2	10
PZ-43	Downgradient B	2/7/2018	2562031.42	1162159.72	381.0	383.71	351.0	341.0	40.4	10
PZ-46	Downgradient B	2/5/2018	2560558.89	1162756.31	382.1	384.64	346.5	336.5	45.6	10
PZ-48	Downgradient D	1/24/2018	2558444.63	1163046.78	418.3	420.90	361.7	351.7	67.0	10
PZ-49	Downgradient B	1/30/2018	2561125.71	1163321.35	382.2	384.99	375.6	365.6	17.0	10
PZ-51S	Downgradient B	8/1/2018	2562433.07	1161613.24	377.9	380.27	337.9	332.9	45.4	5
PZ-54	Downgradient E	5/15/2020	2555458.38	1164828.76	440.8	443.86	398.8	388.8	52.0	10
PZ-55	Downgradient E	5/19/2020	2554783.76	1163208.08	450.2	453.07	410.9	400.9	49.3	10
PZ-56	Downgradient E	5/20/2020	2554086.36	1162965.21	416.2	418.84	396.9	386.9	29.3	10
PZ-57I	Downgradient B	3/24/2021	2562170.21	1161582.31	379.4	382.50	313.8	303.8	75.9	10
PZ-59I	Downgradient B	3/31/2021	2562329.80	1161654.90	379.9	383.49	323.5	313.5	66.0	10
PZ-62I	Downgradient B	1/6/2022	2562336.00	1161478.90	378.1	380.95	318.1	308.1	70.0	10
PZ-65I	Downgradient B	9/09/2022	2562240.57	1161692.72	379.6	382.06	320.9	310.9	69.3	10
PZ-66I	Downgradient B	9/08/2022	2562134.65	1161747.91	380.9	383.52	323.1	313.1	68.3	10
PZ-67	Downgradient B	9/07/2022	2561919.76	1161831.98	378.8	381.48	351.0	341.0	38.3	10
PZ-69I	Downgradient D	8/31/2022	2558447.46	1160311.39	377.0	379.36	348.2	338.2	39.3	10
PZ-71I	Downgradient D	5/2/2023	2558230.83	1160295.35	382.6	385.34	352.8	342.8	40.0	10
PZ-72I	Downgradient D	5/9/2023	2558394.65	1160133.29	365.9	368.57	342.0	332.0	34.2	10
PZ-73I	Downgradient D	5/10/2023	2558559.30	1160226.37	349.9	352.63	334.9	324.9	25.3	10

Notes:
ft = feet
ft BGS = feet below ground surface
(1) Coordinates in North American Datum (NAD) 1983, State Plane, Georgia-West, feet.
(2) Elevations referenced to the North American Vertical Datum of 1988 (NAVD88).

Table 2

Groundwater Sampling Event Summary

Plant Branch AP-BCD, Putnam County, Georgia

Well ID	Hydraulic Location	August 22-24, 2023	January 30 - February 1, 2024	Status of Monitoring Well
Purpose of Sampling Event:		**Assessment**	**Assessment**	
Detection Monitoring Wells AP-BCD				
BRGWA-2S	Upgradient	X	X	Assessment
BRGWA-2I	Upgradient	X	X	Assessment
BRGWA-5S	Upgradient	X	X	Assessment
BRGWA-5I	Upgradient	X	X	Assessment
BRGWA-6S	Upgradient	X	X	Assessment
BRGWA-23S	Upgradient	X	X	Assessment
BRGWC-25I	Downgradient	X	X	Assessment
BRGWC-27I	Downgradient	X	X	Assessment
BRGWC-29I	Downgradient	X	X	Assessment
BRGWC-30I	Downgradient	X	X	Assessment
BRGWC-32S	Downgradient	X	X	Assessment
BRGWC-45	Downgradient	X	X	Assessment
BRGWC-47	Downgradient	X	X	Assessment
BRGWC-50	Downgradient	X	X	Assessment
BRGWC-52I	Downgradient	X	X	Assessment
Assessment Monitoring Wells AP-BCD				
PZ-44	Downgradient	X	X	Assessment
PZ-50D	Downgradient	X	X	Assessment
PZ-51I	Downgradient	X	X	Assessment
PZ-51D	Downgradient	X	X	Assessment
PZ-58I	Downgradient	X	X	Assessment
PZ-60I	Downgradient	X	X	Assessment
PZ-61I	Downgradient	X	X	Assessment
PZ-63I	Downgradient	X	X	Assessment
PZ-64I	Downgradient	X	X	Assessment
PZ-68D	Downgradient	X	X	Assessment
PZ-74I	Downgradient	X	X	Assessment
PZ-75I	Downgradient	X	X	Assessment

Table 3
Summary of Groundwater Elevations
Plant Branch AP-BCD, Putnam County, Georgia

Well ID	Top of Casing Elevation [(1)] (ft)	August 21, 2023		January 29, 2024	
		Depth to Water (ft BTOC)	Groundwater Elevation [(1)] (ft)	Depth to Water (ft BTOC)	Groundwater Elevation [(1)] (ft)
AP-BCD Detection Monitoring Well Network					
BRGWA-2S	443.20	12.27	430.93	12.04	431.16
BRGWA-2I	443.14	12.07	431.07	11.86	431.28
BRGWA-5S	443.86	12.94	430.92	13.57	430.29
BRGWA-5I	443.79	12.85	430.94	13.43	430.36
BRGWA-6S	458.96	26.46	432.50	27.61	431.35
BRGWC-25I	357.37	11.08	346.29	11.83	345.54
BRGWC-27I	366.86	10.98	355.88	12.32	354.54
BRGWC-29I	353.23	10.88	342.35	10.63	342.60
BRGWC-30I	352.61	4.88	347.73	5.02	347.59
BRGWC-32S	406.39	40.50	365.89	41.76	364.63
BRGWC-45	384.58	15.20	369.38	14.90	369.68
BRGWC-47	411.20	27.42	383.78	29.65	381.55
BRGWC-50	381.35	38.23	343.12	38.48	342.87
BRGWC-52I	383.87	39.68	344.19	40.18	343.69
AP-E Detection Monitoring Well Network					
BRGWA-2S	443.20	12.27	430.93	12.04	431.16
BRGWA-2I	443.14	12.07	431.07	11.86	431.28
BRGWA-5S	443.86	12.94	430.92	13.57	430.29
BRGWA-5I	443.79	12.85	430.94	13.43	430.36
BRGWA-6S	458.96	26.46	432.50	27.61	431.35
BRGWC-17S	365.32	6.03	359.29	5.91	359.41
BRGWC-33S	416.68	12.31	404.37	13.35	403.33
BRGWC-34S	391.96	3.45	388.51	3.43	388.53
BRGWC-35S	366.31	2.20	364.11	0.83	365.48
BRGWC-36S	389.84	4.98	384.86	5.20	384.64
BRGWC-37S	447.05	53.22	393.83	54.60	392.45
BRGWC-38S	432.24	23.30	408.94	24.63	407.61
AP-BCD Assessment Monitoring Well Network					
PZ-44	383.04	27.66	355.38	30.11	352.93
PZ-50D	380.86	38.42	342.44	38.66	342.20
PZ-51S	380.27	38.25	342.02	38.51	341.76
PZ-51I	380.52	38.38	342.14	38.38	342.14
PZ-51D	380.75	38.11	342.64	38.25	342.50
PZ-57I	382.50	36.29	346.21	37.20	345.30
PZ-58I	382.27	37.41	344.86	38.08	344.19
PZ-59I	383.49	38.73	344.76	39.42	344.07
PZ-60I	382.61	38.19	344.42	38.75	343.86
PZ-61I	380.64	40.66	339.98	40.23	340.41
PZ-62I	380.95	39.17	341.78	39.12	341.83
PZ-63I	381.31	39.47	341.84	39.44	341.87
PZ-64I	381.94	38.53	343.41	38.85	343.09
PZ-65I	382.06	36.08	345.98	36.94	345.12
PZ-66I	383.52	35.75	347.77	36.93	346.59
PZ-68D	405.25	40.75	364.50	42.27	362.98
PZ-74I	371.13	28.17	342.96	28.40	342.73
PZ-75I	357.86	17.86	340.00	17.36	340.50

Notes:
-- = Dry well, ground water depth not measured
ft = feet
ft BTOC = feet below top of casing
(1) Elevations referenced to the North American Vertical Datum of 1988 (NAVD88).

Table 3
Summary of Groundwater Elevations
Plant Branch AP-BCD, Putnam County, Georgia

Well ID	Top of Casing Elevation [1] (ft)	August 21, 2023		January 29, 2024	
		Depth to Water (ft BTOC)	Groundwater Elevation [1] (ft)	Depth to Water (ft BTOC)	Groundwater Elevation [1] (ft)
AP-E Assessment Monitoring Well Network					
PZ-13S	409.97	27.85	382.12	30.09	379.88
PZ-52D	417.03	24.93	392.10	25.47	391.56
PZ-53D	434.68	24.07	410.61	25.71	408.97
PZ-70I	425.70	28.62	397.08	30.50	395.20
Piezometers					
PZ-1D	463.41	39.89	423.52	41.22	422.19
PZ-1I	464.71	41.53	423.18	42.98	421.73
PZ-1S	465.07	39.69	425.38	41.25	423.82
PZ-3D	487.50	49.44	438.06	49.60	437.90
PZ-3I	489.49	51.06	438.43	51.69	437.80
PZ-3S	490.53	--	--	--	--
PZ-4I	482.98	33.98	449.00	35.30	447.68
PZ-4S	482.87	32.21	450.66	--	--
PZ-7S	451.57	28.60	422.97	31.14	420.43
PZ-8S	453.08	27.06	426.02	27.82	425.26
PZ-9S	469.28	35.90	433.38	37.04	432.24
PZ-10S	433.85	27.75	406.10	29.12	404.73
PZ-14I	422.71	19.95	402.76	21.16	401.55
PZ-14S	423.31	23.84	399.47	25.34	397.97
PZ-15I	403.06	11.12	391.94	11.20	391.86
PZ-15S	402.90	11.38	391.52	11.41	391.49
PZ-16I	382.45	12.43	370.02	11.95	370.50
PZ-16S	382.52	12.59	369.93	12.11	370.41
PZ-17I	365.33	3.56	361.77	2.92	362.41
PZ-18I	362.55	20.68	341.87	20.73	341.82
PZ-18S	362.82	20.87	341.95	20.92	341.90
PZ-19I	371.74	15.13	356.61	16.85	354.89
PZ-19S	371.42	14.85	356.57	16.34	355.08
PZ-20I	365.34	17.14	348.20	17.23	348.11
PZ-20S	365.41	17.28	348.13	17.37	348.04
PZ-21I	358.92	12.58	346.34	13.36	345.56
PZ-21S	358.52	12.09	346.43	--	--
PZ-23I	427.74	38.14	389.60	39.77	387.97
PZ-24S	354.10	14.21	339.89	13.91	340.19
PZ-26I	370.63	22.92	347.71	25.43	345.20
PZ-28I	364.81	16.62	348.19	16.72	348.09
PZ-31S	376.77	27.07	349.70	28.48	348.29
PZ-40S	355.96	15.79	340.17	15.70	340.26
PZ-41S	357.17	16.98	340.19	16.90	340.27
PZ-42S	361.66	20.14	341.52	20.66	341.00
PZ-43	383.71	29.72	353.99	31.20	352.51
PZ-46	384.64	11.69	372.95	11.64	373.00
PZ-48	420.90	31.82	389.08	34.24	386.66
PZ-49	384.99	9.47	375.52	9.56	375.43
PZ-54	443.86	49.29	394.57	50.97	392.89
PZ-55	453.07	55.51	397.56	47.79	405.28
PZ-56	418.84	9.21	409.63	8.05	410.79
PZ-67	381.48	30.41	351.07	32.17	349.31
PZ-69I	379.36	21.95	357.41	22.63	356.73
PZ-71I	385.34	34.14	351.20	34.30	351.04
PZ-72I	368.57	25.87	342.70	25.53	343.04
PZ-73I	352.63	7.57	345.06	7.55	345.08

Notes:
-- = Dry well, ground water depth not measured
ft = feet
ft BTOC = feet below top of casing
(1) Elevations referenced to the North American Vertical Datum of 1988 (NAVD88).

Table 4

Horizontal Gradient and Flow Velocity Calculations

Plant Branch AP-BCD, Putnam County, Georgia

	August 21, 2023				January 29, 2024			
Flow Path Direction [(1)]	**h_1 (ft)**	**h_2 (ft)**	**L (ft)**	**i (ft/ft)**	**h_1 (ft)**	**h_2 (ft)**	**L (ft)**	**i (ft/ft)**
BRGWA-23S/BRGWC-30I	389.55	347.73	1374	0.030	386.83	347.59	1374	0.029
BRGWC-47/BRGWC-50	383.78	343.12	3130	0.013	381.55	342.87	3130	0.012

			Average		
Flow Path Direction [(1)]	**K_h (ft/day)**	**n_e**	**i (ft/ft)**	**V (ft/day)[(2)]**	**V (ft/day)[(3)]**
BRGWA-23S/BRGWC-30I	2.80	0.20	0.029	0.41	0.25
BRGWC-47/BRGWC-50	1.45	0.20	0.013	0.09	

Notes:

ft = feet

ft/day = feet per day

ft/ft = feet per foot

h_1 and h_2 = groundwater elevation at location 1 and 2

$i = h_1-h_2/L$ = horizontal hydraulic gradient

K_h = horizontal hydraulic conductivity

L = distance between location 1 and 2 along the flow path

n_e = effective porosity

V = groundwater flow velocity

(1) Flow path direction relative to the orientation of AP-BCD and illustrated on Figures 3 and 4 of associated report.

(2) Groundwater flow velocity equation: $V = [K_h * i] / n_e$

(3) Average groundwater flow velocity for unit.

Table 5
Summary of Groundwater Analytical Data
Plant Branch AP-BCD, Putnam County, Georgia

	Well ID:	BRGWA-2S	BRGWA-2S	BRGWA-2I	BRGWA-2I	BRGWA-5S	BRGWA-5S	BRGWA-5I	BRGWA-5I	BRGWA-6S	BRGWA-6S	BRGWA-23S	BRGWA-23S	BRGWC-25I	BRGWC-25I	BRGWC-27I	BRGWC-27I
	Sample Date:	8/22/23	1/30/24	8/22/23	1/30/24	8/22/23	1/30/24	8/22/23	1/30/24	8/22/23	1/30/24	8/22/23	1/30/24	8/24/23	1/31/24	8/24/23	1/31/24
	Parameter [1,2,3]																
APPENDIX III	Boron	0.00738 J	< 0.0052	0.00649 J	< 0.0052	0.00764 J	< 0.0052	0.00730 J	< 0.0052	0.00611 J	< 0.0052	0.0390	0.0389	1.95	1.61	1.25	1.17
	Calcium	5.02	5.25	12.6	14.1	14.9	18.2	14.3	16	3.79	4.27	5.95	6.19	69.6	67.4	74.4	60
	Chloride	2.14	2.14	1.90	2.35	3.37	3.52	3.53	3.98	2.34	3.23	2.41	2.4	8.47	8.73	4.81	4.05
	Fluoride	0.229	0.184	0.267	< 0.033	0.277	0.233	0.289	0.232	0.0787 J	0.0341 J	0.114	0.275	0.250	0.221	0.302	0.222
	pH	5.97	6.05	6.91	6.57	6.09	6.38	6.36	6.44	6.27	5.75	5.89	5.87	6.14	6.31	6.01	5.83
	Sulfate	0.526	0.423	6.85	2.65	0.540	0.617	1.83	2.74	0.467	0.456	11.3	10.4	174	169	94.5	155
	TDS	36.0	54	81.0	98	73.0	113	80.0	118	30.0	45	70.0	85	354	391	309	299
APPENDIX IV	Antimony	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	Arsenic	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
	Barium	0.0135	0.0137	0.00680	0.0124	0.0352	0.0396	0.0245	0.0296	0.0143	0.0151	0.0434	0.0431	0.0271	0.0276	0.0151	0.0155
	Beryllium	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
	Cadmium	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003
	Chromium	0.00921 J	0.00854 J	< 0.003	0.00458 J	0.00472 J	0.00582 J	0.00701 J	0.00551 J	0.0132	0.0139	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
	Cobalt	0.000707 J	0.000962 J	0.000707 J	0.0014	0.000327 J	< 0.0003	0.000474 J	0.000555 J	< 0.0003	< 0.0003	< 0.0003	< 0.0003	0.00343	0.00254	0.00601	0.00392
	Lead	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
	Lithium	< 0.003	< 0.003	0.0209	0.00407 J	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	0.00317 J	0.00596 J	0.00729 J	< 0.003	< 0.003	< 0.003	< 0.003
	Mercury	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067
	Molybdenum	< 0.0002	< 0.0002	0.00169	0.000362 J	< 0.0002	< 0.0002	0.000953 J	0.00143	< 0.0002	< 0.0002	< 0.0002	0.000217 J	0.00141	0.0014	< 0.0002	0.000213 J
	Comb. Radium 226/228	0.592 U	2.54	0.857 U	1.25	1.31 U	0 U	1.36	1.48 U	1.89 U	1.29	2.16	0.605 U	1.21 U	3.78	2.23	1.49 U
	Selenium	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015
	Thallium	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006
GEOCHEM	Alkalinity (Bicarbonate as CaCO3)	37.1	38.1	71.7	68.4	68.4	78.1	77.2	81.1	36.8	25.9	32.9	37.6	98.8	104	35.6	41
	Alkalinity (Carbonate as CaCO3)	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725
	Alkalinity (total) as CaCO3	37.1	38.1	71.7	68.4	68.4	78.1	77.2	81.1	36.8	25.9	32.9	37.6	98.8	104	35.6	41
	Ferrous Iron	0.0	0.0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
	Iron	0.0513 J	0.119	0.0904 J	0.224	0.263	0.087 J	0.0953 J	0.0342 J	< 0.033	< 0.033	0.0877 J	< 0.033	0.101	< 0.033	0.0749 J	< 0.033
	Magnesium	4.66	5.36	7.27	8.67	6.25	8.58	9.41	10.8	3.48	4.38	3.18	3.6	23.4	24.2	6.53	6.59
	Manganese	0.0283	0.0378	0.0145	0.0159	0.0105	0.00634	0.00104 J	0.0012 J	0.00120 J	< 0.001	0.00405 J	0.00138 J	2.14	2.12	0.458	0.329
	Nitrate	0.218	0.275	< 0.033	0.271	0.203	0.204	0.266	0.349	0.646	0.671	0.212	0.193	< 0.033	0.0646 J	0.0657 J	0.264
	Potassium	0.415	0.443	5.25	1.79	0.435	0.515	0.933	1.23	0.607	0.659	1.81	2.16	4.79	4.71	4.90	5.3
	Sodium	3.09	3.51	5.26	5.31	3.48	4.64	4.69	5.05	2.11	2.6	8.63	9.09	20.6	21.2	16.3	15.3
	Sulfide	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033

Notes:
< = Indicates the parameter was not detected above the analytical method detection limit (MDL).
J = Indicates the parameter was estimated and detected between the MDL and the reporting limit (RL).
TDS = total dissolved solids
U = Indicates the parameter was not detected above the analytical minimum detectable concentration (MDC) (Specific to combined radium 226/228)
(1) Appendix III/IV parameter per 40 CFR 257 Subpart D. Parameters are reported in units of milligrams per liter (mg/L), except for pH reported as s.u. (standard units) and combined radium reported as picocuries per liter (pCi/L).
(2) Metals were analyzed by EPA Method 6010D, 6020B, and 7470A, anions were analyzed by EPA Method 300.0, TDS was analyzed by SM2540-2011, and combined radium 226/228 by EPA Methods 9315/9320.
(3) The pH value presented was recorded at the time of sample collection in the field.

Table 5
Summary of Groundwater Analytical Data
Plant Branch AP-BCD, Putnam County, Georgia

	Well ID:	BRGWC-29I	BRGWC-29I	BRGWC-30I	BRGWC-30I	BRGWC-32S	BRGWC-32S	BRGWC-45	BRGWC-45	BRGWC-47	BRGWC-47	BRGWC-50	BRGWC-50	BRGWC-52I	BRGWC-52I	PZ-44	PZ-44
	Sample Date:	8/24/23	1/31/24	8/22/23	1/30/24	8/22/23	1/30/24	8/24/23	2/1/24	8/24/23	1/30/24	8/23/23	2/1/24	8/24/23	2/1/24	8/23/24	1/30/24
	Parameter [1,2,3]																
APPENDIX III	Boron	1.34	1.11	2.05	2.36	1.13	1.23	0.0444	0.0355	0.689	0.618	0.372	0.389	1.87	1.61	1.35	1.27
	Calcium	71.4	89.3	414	441	45.1	47.4	34.0	32.8	347	340	214	224	37.4	36.4	26.5	26
	Chloride	6.08	7.94	3.35	3.52	4.30	4.1	16.5	17.2	4.67	4.74	14.8	15.4	6.28	6.3	6.83	6.36
	Fluoride	0.0849 J	0.0968 J	0.116	0.169	0.0477 J	0.207	0.185	0.126	0.243	0.11	0.499	0.416	0.188 J	0.215	0.195	0.242
	pH	4.48	4.37	6.44	6.39	5.98	5.98	5.71	5.85	5.69	5.73	5.12	5.14	6.24	6.3	6.11	6.18
	Sulfate	288	328	1,250	1,210	256	246	114	110	1,300	1,360	1,290	1,310	150	145	49.5	42.4
	TDS	418	535	1,920	1,970	412	418	242	255	1,970	2,160	2,180	1,970	281	303	184	179
APPENDIX IV	Antimony	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	Arsenic	< 0.002	< 0.002	< 0.002	0.002 J	< 0.002	< 0.002	< 0.002	< 0.002	0.00380 J	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
	Barium	0.0174	0.0179	0.0400	0.0349	0.0243	0.0192	0.0524	0.0497	0.0280	0.0278	0.0166	0.015	0.0415	0.0414	0.0555	0.052
	Beryllium	0.00113	0.00114	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	0.00867	0.00734	< 0.0002	< 0.0002	< 0.0002	< 0.0002
	Cadmium	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	0.00744	0.00688	< 0.0003	< 0.0003	< 0.0003	< 0.0003
	Chromium	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
	Cobalt	0.00724	0.00874	0.00183	0.00179	< 0.0003	< 0.0003	0.00221	0.00181	< 0.0003	< 0.0003	1.38	1.39	0.000317 J	0.00042 J	< 0.0003	0.000408 J
	Lead	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
	Lithium	0.00349 J	0.00337 J	0.0253	0.0305	0.00392 J	0.00591 J	< 0.003	< 0.003	0.0532	0.0484	0.0393	0.0376	0.0131	0.0122	0.00560 J	0.00537 J
	Mercury	< 0.000067	0.00078	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067
	Molybdenum	< 0.0002	< 0.0002	0.00111	0.00137	< 0.0002	< 0.0002	0.000356 J	< 0.0002	0.000296 J	0.00028 J	< 0.0002	< 0.0002	0.000782 J	0.000564 J	< 0.0002	< 0.0002
	Comb. Radium 226/228	3.02	3.01	2.71	4.11	2.33	0.572 U	0.607 U	1.22 U	2.39	2.63	1.55	0.607 U	6.36	4.51	0.477 U	2.87
	Selenium	< 0.0015	0.00229 J	< 0.0015	< 0.0015	0.210	0.17	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015
	Thallium	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006
GEOCHEM	Alkalinity (Bicarbonate as CaCO3)	< 0.725	< 0.725	126	136	28.6	30.6	45.2	35.7	27.3	24.5	11.0	8.7	53.3	53.6	81.3	79.7
	Alkalinity (Carbonate as CaCO3)	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725
	Alkalinity (total) as CaCO3	< 0.725	< 0.725	126	136	28.6	30.6	45.2	35.7	27.3	24.5	11.0	8.7	53.3	53.6	81.3	79.7
	Ferrous Iron	6.5	5.5	0.5	0.25	0.0	0	0.0	0	0.0	0	0.0	0	1.0	0.5	0.0	0
	Iron	23.3	23.8	0.992	2.25	0.0935 J	< 0.033	0.160	0.0581 J	0.291	0.0525 J	0.409	0.307	0.956	1.03	0.0501 J	0.0551 J
	Magnesium	8.02	10.2	63.4	67.4	29.7	31.7	16.4	16.6	133	132	142	156	18.1	17.5	10.1	11.5
	Manganese	1.38	1.62	1.40	1.53	0.00207 J	< 0.001	0.211	0.16	0.00873	0.00852	103	77.5	0.549	0.554	0.478	0.501
	Nitrate	0.297	0.725	< 0.033	< 0.033	0.184	1.23	< 0.033	0.779	0.117	0.231	< 0.033	0.187	< 0.033	< 0.033	< 0.033	0.066 J
	Potassium	9.76	10.6	6.06	6.53	2.03	2.59	3.00	2.83	11.9	12.4	10.6	9.83	4.65	4.46	2.44	2.6
	Sodium	18.2	19.6	30.7	32.2	26.1	28.7	14.5	13.4	44.2	43.4	49.9	45.4	19.0	17.6	11.3	12.1
	Sulfide	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033

Notes:
< = Indicates the parameter was not detected above the analytical method detection limit (MDL).
J = Indicates the parameter was estimated and detected between the MDL and the reporting limit (RL).
TDS = total dissolved solids
U = Indicates the parameter was not detected above the analytical minimum detectable concentration (MDC) (Specific to combined radium 226/228)
(1) Appendix III/IV parameter per 40 CFR 257 Subpart D. Parameters are reported in units of milligrams per liter (mg/L), except for pH reported as s.u. (standard units) and combined radium reported as picocuries per liter (pCi/L).
(2) Metals were analyzed by EPA Method 6010D, 6020B, and 7470A, anions were analyzed by EPA Method 300.0, TDS was analyzed by SM2540-2011, and combined radium 226/228 by EPA Methods 9315/9320.
(3) The pH value presented was recorded at the time of sample collection in the field.

Table 5
Summary of Groundwater Analytical Data
Plant Branch AP-BCD, Putnam County, Georgia

	Well ID:	PZ-50D	PZ-50D	PZ-51I	PZ-51I	PZ-51D	PZ-51D	PZ-58I	PZ-58I	PZ-60I	PZ-60I	PZ-61I	PZ-61I	PZ-63I	PZ-63I	PZ-64I	PZ-64I
	Sample Date:	8/23/23	2/1/24	8/23/23	2/1/24	8/24/23	2/1/24	8/23/23	2/1/24	8/23/23	2/1/24	8/22/23	2/1/24	8/23/23	2/1/24	8/23/23	2/1/24
	Parameter [1,2,3]																
APPENDIX III	Boron	0.285	0.269	0.430	0.409	0.0387	0.0326	0.429	0.416	0.300	0.301	0.331	0.332	0.706	0.714	0.00834 J	0.016
	Calcium	211	195	217	208	120	122	162	184	294	296	209	218	56.8	57.3	363	333
	Chloride	10.1	10.6	9.43	9.59	22.2	19.2	11.0	13.1	25.0	26.9	15.7	15.8	6.81	7.16	36.5	36.9
	Fluoride	0.193	0.202	0.0744 J	0.0661 J	0.395	0.299	1.10	1.16	1.32	1.26	0.188	0.0694 J	0.252	0.289	0.135	0.133
	pH	6.09	6.16	5.37	5.54	7.07	6.74	3.99	4.04	4.58	4.75	5.16	5.26	5.68	5.7	5.21	5.13
	Sulfate	854	787	1,200	1,270	346	355	949	1,120	1,830	1,920	1,440	1,470	294	352	2,550	2,730
	TDS	1,360	1,330	1,860	1,970	638	715	1,570	1,710	2,880	2,690	2,220	1,960	503	561	4,640	4,420
APPENDIX IV	Antimony	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.00100	< 0.00100	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	Arsenic	0.00300 J	0.00242 J	< 0.002	< 0.002	0.00408 J	0.00234 J	< 0.00200	< 0.00200	< 0.002	0.00248 J	< 0.002	< 0.002	< 0.002	< 0.002	0.00459 J	0.00438 J
	Barium	0.0312	0.0259	0.0149	0.0133	0.0448	0.0461	0.0173	0.0162	0.0232	0.0205	0.0127	0.0102	0.0221	0.0202	0.0177	0.0133
	Beryllium	< 0.001	< 0.0002	< 0.0002	0.000202 J	< 0.0002	< 0.0002	0.0328	0.0351	0.0670	0.0619	0.00145	0.00157	< 0.002	0.000286 J	0.00248	0.00268
	Cadmium	< 0.0003	< 0.0003	0.000679 J	0.00133	< 0.0003	< 0.0003	0.00453	0.00468	0.0149	0.014	0.000496 J	0.00037 J	< 0.0003	< 0.0003	< 0.0003	0.0011
	Chromium	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.00300	< 0.00300	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
	Cobalt	0.00991	0.131	0.0259	0.0221	0.000427 J	0.00111	0.556	0.570	3.79	3.78	0.757	0.694	0.0309	0.0299	10.6	9.86
	Lead	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.000860 J	0.000825 J	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
	Lithium	0.0232	0.0254	0.0221	0.0225	0.00667 J	0.00929 J	0.0468	0.0508	0.0936	0.0958	0.0106	0.00995 J	0.00516 J	0.00557 J	0.0126	0.0124
	Mercury	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.0000670	0.00146	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067
	Molybdenum	< 0.0002	0.000839 J	< 0.0002	0.000201 J	0.00142	0.00198	< 0.000200	< 0.000200	< 0.0002	< 0.0002	< 0.0002	< 0.0002	0.000539 J	0.0007 J	< 0.0002	< 0.0002
	Comb. Radium 226/228	2.12	3.93	5.22	2.24	1.27	5.03	3.71	0.162 U	4.48	4.39	0.868 U	2.25	2.31	1.52 U	0.877 U	1.05 U
	Selenium	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	0.00494 J	0.00331 J	0.00430 J	0.00275 J	0.00483 J	0.00231 J	< 0.0015	< 0.0015	0.0163	0.0083
	Thallium	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.000600	< 0.000600	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006
GEOCHEM	Alkalinity (Bicarbonate as CaCO3)	72.2	71.1	23.5	24.3	134	126	< 0.725	< 0.725	< 0.725	< 0.725	11.3	10.9	29.1	30.3	32.9	22.4
	Alkalinity (Carbonate as CaCO3)	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725
	Alkalinity (total) as CaCO3	72.2	71.1	23.5	24.3	134	126	< 0.725	< 0.725	< 0.725	< 0.725	11.3	10.9	29.1	30.3	32.9	22.4
	Ferrous Iron	4.0	3.5	0.0	0	1.5	2	7	7	1.5	1	0.5	0.5	1.5	1.5	1.75	2
	Iron	4.37	3.41	0.136	0.185	1.82	2.45	52.8	62.3	1.60	1.62	0.348	0.373	1.18	1.3	3.00	2.47
	Magnesium	73.3	79.2	133	136	26.1	27.5	85.8	100	193	198	172	167	37.7	38.7	261	247
	Manganese	2.56	9.15	49.9	49.5	1.34	1.38	31.4	37.9	175	186	107	118	6.97	7.04	380	352
	Nitrate	< 0.033	7.85 H	< 0.033	< 0.033	< 0.033	< 0.033	< 0.0330	0.0551 J	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033
	Potassium	12.0	10.2	11.2	10.7	11.3	10.3	7.79	8.32	13.8	13	6.30	5.99	7.62	7.84	13.5	12.1
	Sodium	39.5	39.6	43.6	42.5	52.2	41.2	34.7	35.0	65.3	64	59.6	59.9	18.5	17.8	75.3	69.9
	Sulfide	< 0.033	< 0.033	< 0.033	< 0.033	0.192	< 0.033	< 0.033	< 0.0330	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033

Notes:
< = Indicates the parameter was not detected above the analytical method detection limit (MDL).
J = Indicates the parameter was estimated and detected between the MDL and the reporting limit (RL).
TDS = total dissolved solids
U = Indicates the parameter was not detected above the analytical minimum detectable concentration (MDC) (Specific to combined radium 226/228)
(1) Appendix III/IV parameter per 40 CFR 257 Subpart D. Parameters are reported in units of milligrams per liter (mg/L), except for pH reported as s.u. (standard units) and combined radium reported as picocuries per liter (pCi/L).
(2) Metals were analyzed by EPA Method 6010D, 6020B, and 7470A, anions were analyzed by EPA Method 300.0, TDS was analyzed by SM2540-2011, and combined radium 226/228 by EPA Methods 9315/9320.
(3) The pH value presented was recorded at the time of sample collection in the field.

Table 5
Summary of Groundwater Analytical Data
Plant Branch AP-BCD, Putnam County, Georgia

	Well ID:	PZ-68D	PZ-68D	PZ-74I	PZ-74I	PZ-75I	PZ-75I
	Sample Date:	8/23/23	2/1/24	8/24/23	2/1/24	8/24/23	2/1/24
	Parameter [1,2,3]						
APPENDIX III	Boron	0.318	0.384	1.47	1.32	1.51	1.36
	Calcium	86.4	94.3	69.2	62.5	47.0	50.8
	Chloride	23.0	19.9	14.8	18.1	6.84	7.21
	Fluoride	0.218	0.211	0.157	0.232	0.140	0.0996 J
	pH	7.41	7.41	5.89	6.09	5.76	5.92
	Sulfate	298	279	309	306	275	304
	TDS	597	583	506	536	430	450
APPENDIX IV	Antimony	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	Arsenic	0.00342 J	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
	Barium	0.107	0.0853	0.0346	0.0245	0.0513	0.0421
	Beryllium	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
	Cadmium	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003
	Chromium	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
	Cobalt	0.00106	0.000852 J	0.000590 J	0.000829 J	0.00105	0.000519 J
	Lead	< 0.0005	0.000504 J	< 0.0005	< 0.0005	< 0.0005	< 0.0005
	Lithium	0.00399 J	0.00564 J	0.00711 J	0.00702 J	0.00579 J	0.00411 J
	Mercury	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067
	Molybdenum	0.00625	0.00598	0.000597 J	< 0.0002	< 0.0002	< 0.0002
	Comb. Radium 226/228	1.62	2.16	0.811 U	0.912 U	3.11	2.19
	Selenium	< 0.0015	< 0.0015	0.0423	0.0489	0.0696	0.0954
	Thallium	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006
GEOCHEM	Alkalinity (Bicarbonate as CaCO3)	122	116	42.6	42.3	27.2	32.9
	Alkalinity (Carbonate as CaCO3)	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725
	Alkalinity (total) as CaCO3	122	116	42.6	42.3	27.2	32.9
	Ferrous Iron	0.5	0	1.5	0	0.5	0
	Iron	1.04	0.748	0.148	0.071 J	0.464	0.0457 J
	Magnesium	20.3	22.7	33.4	33.7	33.8	33.9
	Manganese	0.851	0.312	0.0585	0.032	0.0957	0.0209
	Nitrate	< 0.033	< 0.033	0.0475 J	0.0738 J	0.794	0.0715 J
	Potassium	11.4	9.14	3.66	3.25	5.45	4.51
	Sodium	59.9	36.3	25.9	23.6	25.9	23.9
	Sulfide	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033

Notes:
< = Indicates the parameter was not detected above the analytical method detection limit (MDL).
J = Indicates the parameter was estimated and detected between the MDL and the reporting limit (RL).
TDS = total dissolved solids
U = Indicates the parameter was not detected above the analytical minimum detectable concentration (MDC) (Specific to combined radium 226/228)
(1) Appendix III/IV parameter per 40 CFR 257 Subpart D. Parameters are reported in units of milligrams per liter (mg/L), except for pH reported as s.u. (standard units) and combined radium reported as picocuries per liter (pCi/L).
(2) Metals were analyzed by EPA Method 6010D, 6020B, and 7470A, anions were analyzed by EPA Method 300.0, TDS was analyzed by SM2540-2011, and combined radium 226/228 by EPA Methods 9315/9320.
(3) The pH value presented was recorded at the time of sample collection in the field.

Table 6
Summary of Surface Water Analytical Data
Plant Branch AP-BCD, Putnam County, Georgia

	Loc ID:	LR-1 (Bottom)	LR-1 (Bottom)	LR-1 (Mid)	LR-1 (Mid)	LR-1 (Surface)	LR-1 (Surface)	LR+8A (Surface)	LR+8A (Surface)	LR+8 (Bottom)	LR+8 (Bottom)	LR+8 (Mid)	LR+8 (Mid)	LR+8 (Surface)	LR+8 (Surface)	LR+9A (Surface)	LR+9A (Surface)	LR+9 (Bottom)	LR+9 (Bottom)
Sample Date:		08/23/23	01/31/24	08/23/23	01/31/24	08/23/23	01/31/24	08/23/23	01/31/24	08/23/23	01/31/24	08/23/23	01/31/24	08/23/23	01/31/24	08/23/23	01/31/24	08/23/23	01/31/24
Parameter [1,2,3]																			
APP. III	**Boron**	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027
	Calcium	5.9	3.8	5.9	3.9	5.9	3.8	5.4	4	5.7	3.6	5.6	3.5	5.5	3.8	5.4	3.7	5.5	3.6
	Chloride	3.9	3.1	3.6	3	3.6	3	3.7	2.8	3.7	2.8	3.7	2.8	3.6	2.8	3.8	2.8	3.8	2.8
	Fluoride	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
	pH, Field	6.90	6.63	6.92	6.62	7.01	6.61	7.15	6.51	6.96	6.57	6.95	6.56	6.98	6.54	7.01	6.50	6.95	6.48
	Sulfate	1.7	2.1	1.7	2.1	2.2	2.1	2.2	2.8	2.0	2	2.0	2.1	1.9	2	2.3	2.4	2.1	2.1
	TDS	62	89	53	94	65	91	53	94	50	98	50	96	40	100	40	96	52	96
APP. IV	**Cobalt**	< 0.00039	< 0.00032	< 0.00039	< 0.00032	< 0.00039	< 0.00032	< 0.00039	< 0.00032	< 0.00039	< 0.00032	< 0.00039	< 0.00032	< 0.00039	< 0.00032	< 0.00039	< 0.00032	< 0.00039	< 0.00032
	Selenium	< 0.0014	< 0.00096	< 0.0014	< 0.00096	< 0.0014	< 0.00096	--	--	--	--	--	--	--	--	--	--	--	--
GEOCHEM	**Alkalinity (total) as CaCO3**	33.8	20.8	33.9	21.9	34.4	20.7	31.3	20.6	32.5	17.4	32.3	17.7	31.8	18	31.1	17.5	31.0	17.6
	Alkalinity (Bicarbonate as CaCO3)	33.8	20.8	33.9	21.9	34.4	20.7	31.3	20.6	32.5	17.4	32.3	17.7	31.8	18	31.1	17.5	31.0	17.6
	Magnesium	3.0	2	3.0	2	3.0	2	2.6	2	2.8	1.8	2.8	1.7	2.7	1.9	2.5	2	2.6	1.9
	Potassium	2.6	2.8	2.6	2.8	2.5	2.7	2.4	3	2.5	2.9	2.4	2.7	2.5	3	2.4	3.1	2.4	3
	Sodium	5.3	3.9	5.3	4	5.3	3.9	4.9	3.7	5.1	3.6	5.0	3.4	5.0	3.7	4.8	3.7	4.9	3.7

Notes:
-- = Parameter was not analyzed
< = Indicates the parameter was not detected above the analytical method detection limit (MDL).
TDS = total dissolved solids
(1) Appendix III/IV parameter per 40 CFR 257 Subpart D. Parameters are reported in units of milligrams per liter (mg/L), except for pH reported as s.u. (standard units) and combined radium reported as picocuries per liter (pCi/L).
(2) Metals were analyzed by EPA Method 6010D, 6020B, and 7470A, anions were analyzed by EPA Method 300.0, TDS was analyzed by SM2540-2011, and combined radium 226/228 by EPA Methods 9315/9320.
(3) The pH value presented was recorded at the time of sample collection in the field.

Table 6
Summary of Surface Water Analytical Data
Plant Branch AP-BCD, Putnam County, Georgia

	Loc ID:	LR+9 (Mid)	LR+9 (Mid)	LR+9 (Surface)	LR+9 (Surface)	LR+10 (Bottom)	LR+10 (Bottom)	LR+10 (Mid)	LR+10 (Mid)	LR+10 (Surface)	LR+10 (Surface)	LS+3 (Surface)	LS+3 (Surface)	LS+3 (Mid)	LS+3 (Mid)	LS+3A (Surface)	LS+3A (Surface)
	Sample Date:	08/23/23	01/31/24	08/23/23	01/31/24	08/23/23	01/31/24	08/23/23	01/31/24	08/23/23	01/31/24	08/23/23	01/31/24	08/23/23	01/31/24	08/23/23	01/31/24
	Parameter [1,2,3]																
APP. III	Boron	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027
	Calcium	5.2	3.8	5.5	3.6	5.5	3.7	5.5	3.6	5.7	3.7	5.8	4.2	5.9	4	5.5	3.9
	Chloride	3.8	2.8	3.8	2.8	3.8	2.9	3.9	3	3.9	2.9	3.6	3	3.6	3	3.8	3
	Fluoride	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
	pH, Field	6.94	6.47	6.95	6.43	6.99	6.40	6.98	6.22	7.02	6.11	7.16	6.71	7.07	6.68	7.19	6.66
	Sulfate	2.1	2	2.1	2.1	2.1	2.1	2.2	2.1	2.2	2.1	2.2	3.3	2.2	3.4	2.3	3
	TDS	42	95	44	97	45	102	46	99	36	97	46	98	57	90	53	90
APP. IV	Cobalt	< 0.00039	< 0.00032	< 0.00039	< 0.00032	< 0.00039	< 0.00032	< 0.00039	< 0.00032	< 0.00039	< 0.00032	--	--	--	--	--	--
	Selenium	--	--	--	--	< 0.0014	< 0.00096	< 0.0014	< 0.00096	< 0.0014	< 0.00096	< 0.0014	< 0.00096	< 0.0014	< 0.00096	< 0.0014	< 0.00096
GEOCHEM	Alkalinity (total) as CaCO3	30.7	17.1	31.6	17.9	31.1	17.7	30.0	17.6	30.2	17.9	33.3	21	32.3	20.9	33.3	21.5
	Alkalinity (Bicarbonate as CaCO3)	30.7	17.1	31.6	17.9	31.1	17.7	30.0	17.6	30.2	17.9	33.3	21	32.3	20.9	33.3	21.5
	Magnesium	2.5	2	2.6	1.9	2.6	1.9	2.5	1.9	2.6	1.9	3.0	2.3	3.0	2.1	2.8	2.1
	Potassium	2.4	3.1	2.5	3	2.5	3	2.5	3	2.7	3	2.5	3	2.5	2.8	2.4	2.8
	Sodium	4.6	3.8	4.9	3.6	4.9	3.9	4.9	3.8	5.1	3.7	5.2	4.1	5.3	4	4.9	3.8

Notes:
-- = Parameter was not analyzed
< = Indicates the parameter was not detected above the analytical method detection limit (MDL).
TDS = total dissolved solids
(1) Appendix III/IV parameter per 40 CFR 257 Subpart D. Parameters are reported in units of milligrams per liter (mg/L), except for pH reported as s.u. (standard units) and combined radium reported as picocuries per liter (pCi/L).
(2) Metals were analyzed by EPA Method 6010D, 6020B, and 7470A, anions were analyzed by EPA Method 300.0, TDS was analyzed by SM2540-2011, and combined radium 226/228 by EPA Methods 9315/9320.
(3) The pH value presented was recorded at the time of sample collection in the field.

Table 7

Summary of Background Concentrations and Groundwater Protection Standards

Plant Branch AP-BCD, Putnam County, Georgia

Analyte	Units	MCL	CCR-Rule Specified	Background[1]		GWPS[2][3]
				August 2023	January 2024	
Antimony	mg/L	0.006		0.025	0.025	0.006
Arsenic	mg/L	0.01		0.005	0.003	0.01
Barium	mg/L	2		0.13	0.13	2
Beryllium	mg/L	0.004		0.0005	0.0002	0.004
Cadmium	mg/L	0.005		0.001	0.0003	0.005
Chromium	mg/L	0.1		0.016	0.016	0.1
Cobalt	mg/L	n/a	0.006	0.014	0.014	0.014
Fluoride	mg/L	4		0.42	0.42	4
Lead	mg/L	n/a	0.015	0.002	0.0013	0.015
Lithium	mg/L	n/a	0.040	0.089	0.089	0.089
Mercury	mg/L	0.002		0.00021	0.00021	0.002
Molybdenum	mg/L	n/a	0.1	0.008	0.008	0.1
Selenium	mg/L	0.05		0.006	0.006	0.05
Thallium	mg/L	0.002		0.002	0.0006	0.002
Combined Radium-226/228	pCi/L	5		2.17	2.23	5

Notes:

CCR = Coal Combustion Residuals

GWPS = Groundwater Protection Standard

MCL = Maximum Contaminant Level

mg/L = milligrams per liter

n/a = not applicable

pCi/L = picocuries per liter

Statistical analyses were performed per semiannual assessment monitoring event conducted during the reporting period.

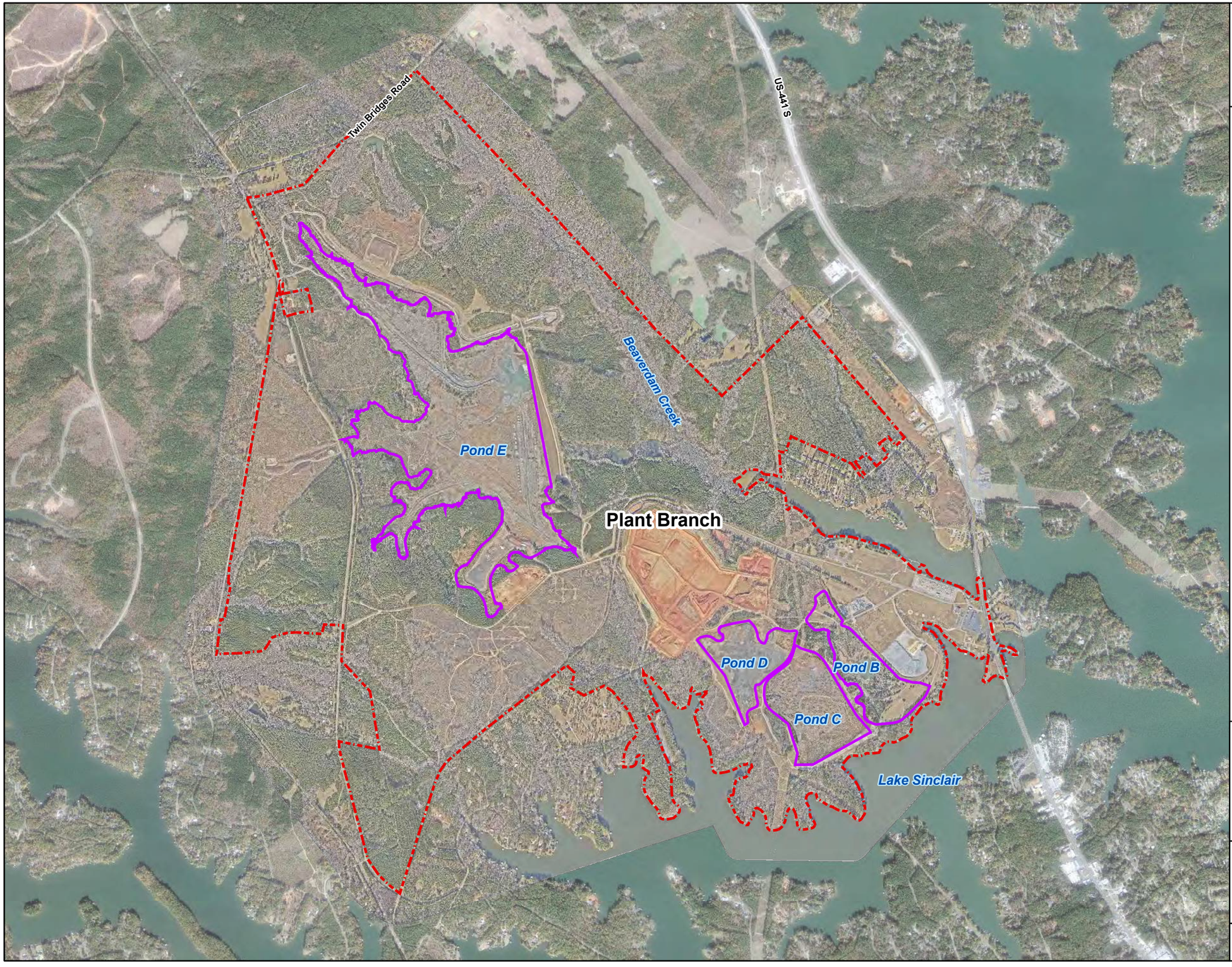
Background limits and groundwater protection standards (GWPS) are applicable to the August 2023 event.

(1) The background limits were used when determining the GWPS under 40 CFR §257.95(h) and Georgia Environmental Protection Division (GA EPD) Rule 391-3-4-.10(6)(a).

(2) Under 40 CFR §257.95(h)(1-3) the GWPS is: (i) the maximum contaminant level (MCL) established under 141.62 and 141.66 of this title; (ii) where an MCL has not been established a rule-specific GWPS is used; or (iii) background concentrations for constituents were the background level is higher than the MCL or rule-specified GWPS.

(3) On February 22, 2022, GA EPD updated the Rules for Solid Waste Management 391-3-4-.10(6) to incorporate updated Federal GWPSs where an MCL has not been established, except when site-specific background concentrations of constituents is higher.

FIGURES



N

LEGEND

- Plant Branch Property Boundary
- Approximate Ash Pond Boundary

Notes:
1. Coordinate System: NAD 1983 State Plane Georgia West_FIPS (U.S. Feet).
2. Property Boundary Provided by Southern Company Services.
3. Aerial: Google Earth Imagery, November 2019 and Georgia Power Company, January 2024.

0 2,000 4,000
Scale in Feet

SITE LOCATION MAP

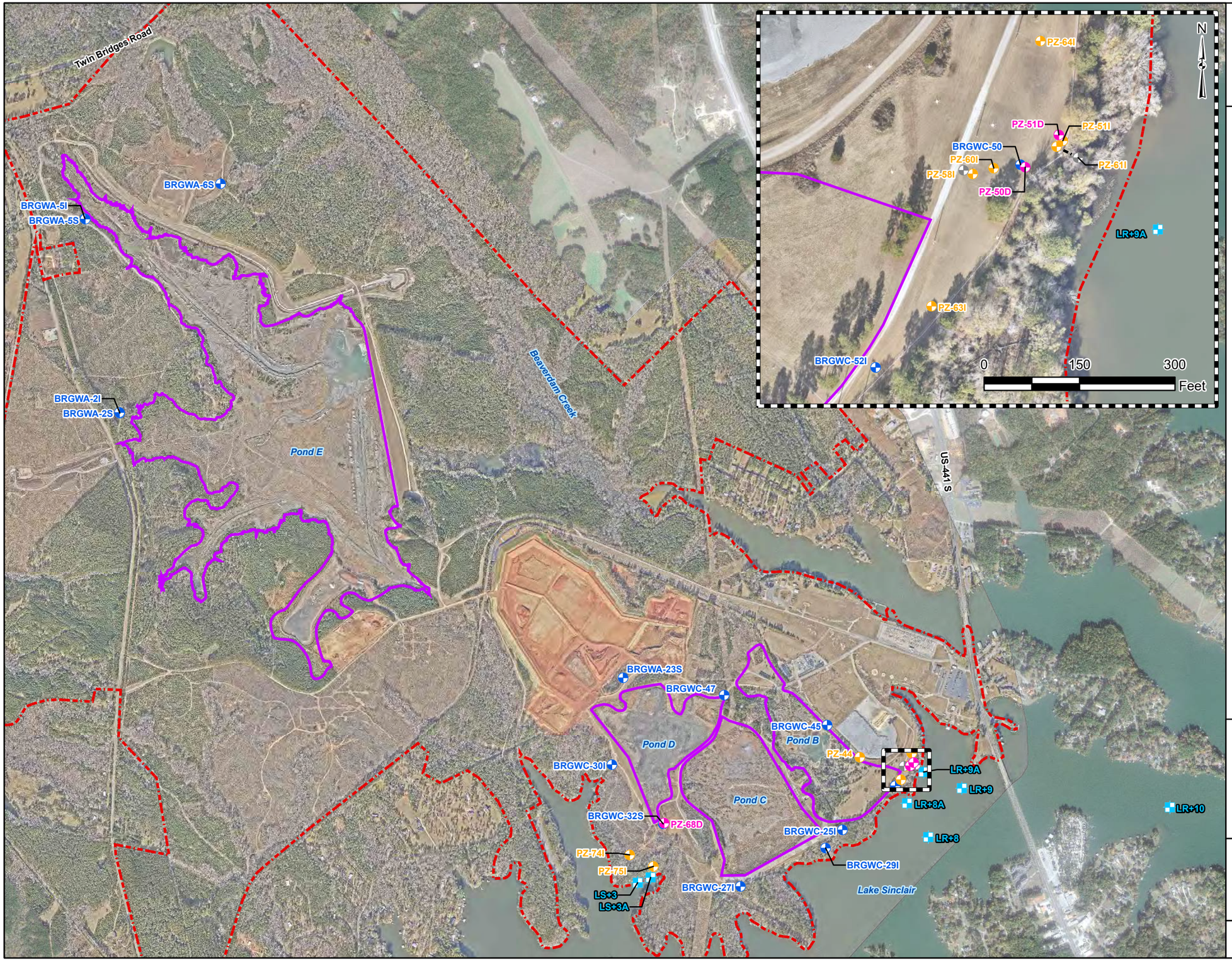
GEORGIA POWER COMPANY
PLANT BRANCH AP-BCD
PUTNAM COUNTY, GEORGIA

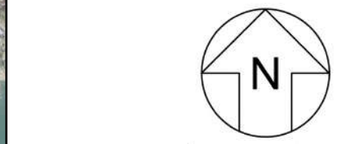
Prepared For: Georgia Power

Prepared By: Geosyntec consultants

KENNESAW, GA | JULY 2024

FIGURE 1





LEGEND

- Detection Monitoring Well
- Horizontal Assessment Monitoring Well
- Vertical Assessment Monitoring Well
- Angled Well Screen
- Surface Water Sample Point
- Plant Branch Property Boundary
- Approximate Ash Pond Boundary

Notes:
1. Surface water sampling location LR-1 is located to the south of AP-BCD beyond the extent displayed in this figure.
2. Property Boundary Provided by Southern Company Services.
3. Aerial: Google Earth Imagery, November 2019 and Georgia Power Company, January 2024.

0 1,500 3,000
Scale in Feet

MONITORING WELL NETWORK AND SURFACE WATER LOCATION MAP

GEORGIA POWER COMPANY
PLANT BRANCH AP-BCD
PUTNAM COUNTY, GEORGIA

Prepared For: Georgia Power

Prepared By: Geosyntec consultants

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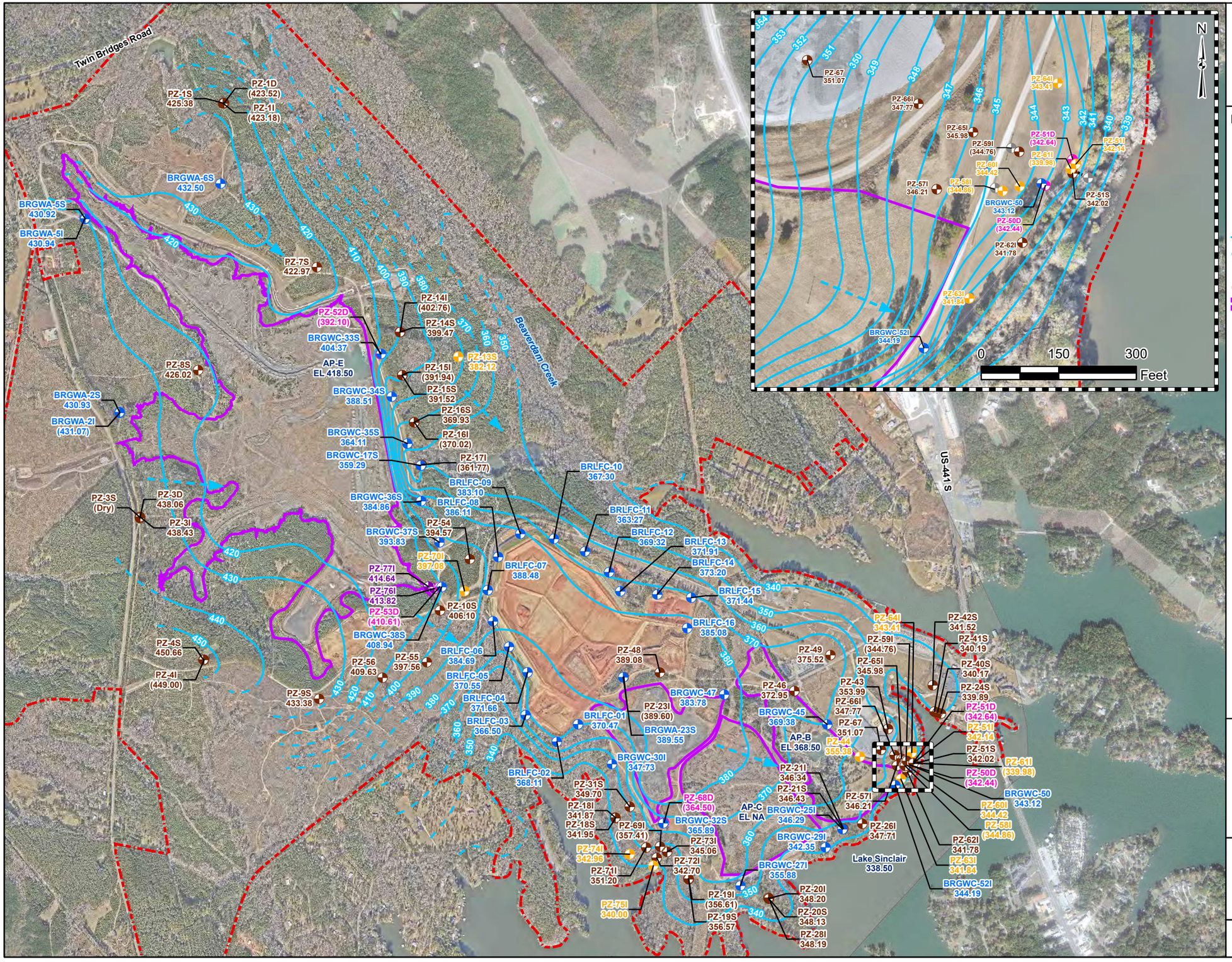
FIGURE 2



LEGEND

- Detection Monitoring Well
- Horizontal Assessment Monitoring Well
- Vertical Assessment Monitoring Well
- Piezometer
- Angled Well Screen
- Temporary Piezometer
- Groundwater Elevation Iso-Contour
- Groundwater Elevation Iso-Contour (Inferred)
- Approximate Groundwater Flow Direction
- Plant Branch Property Boundary
- Approximate Ash Pond Boundary

JOSEPH M. IVANOWSKI * GEORGIA REGISTERED PROFESSIONAL GEOLOGIST * No. 002140

Notes:
1. Water level elevation recorded on August 21, 2023, for semiannual groundwater event.
2. Elevation provided in feet (ft) referenced to the North American Vertical Datum of 1988 (NAVD 88).
3. Groundwater iso-contours based on linear interpolation and extrapolation from known groundwater elevation data, and topographic elevations.
4. Groundwater elevations in parentheses were not used to make the groundwater contours because these wells are screened at a different elevation in the formation/aquifer.
5. Coordinate System: NAD 1983 State Plane Georgia West_FIPS (U.S. Feet).
6. Property Boundary Provided by Southern Company Services.
7. Aerial: Google Earth Imagery, November 2019 and Georgia Power Company, January 2024.

0 1,500 3,000
Scale in Feet

POTENTIOMETRIC SURFACE CONTOUR MAP - AUGUST 2023

GEORGIA POWER COMPANY
PLANT BRANCH AP-BCD
PUTNAM COUNTY, GEORGIA

Prepared For: Georgia Power

Prepared By: Geosyntec consultants

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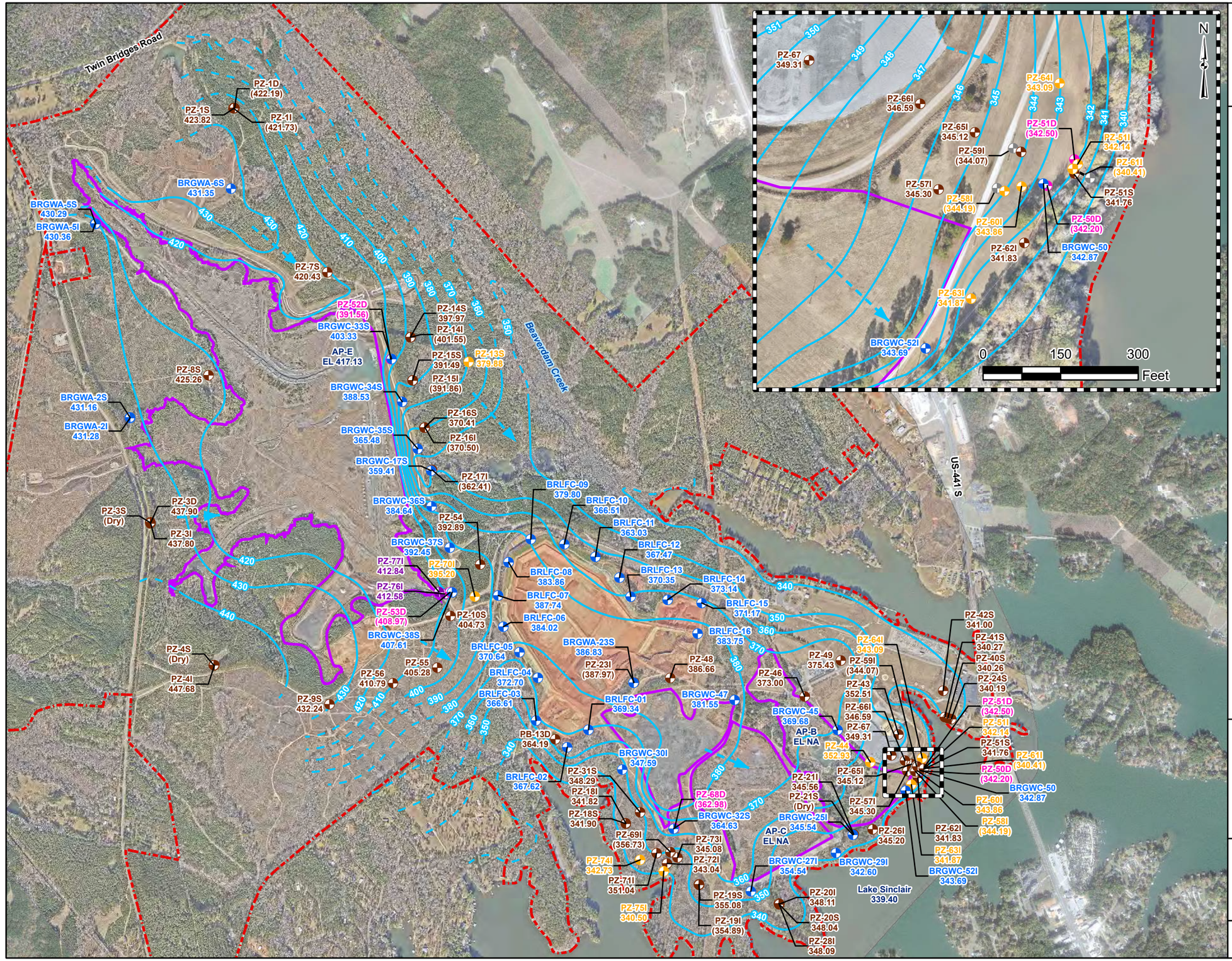
FIGURE 3



LEGEND

- Detection Monitoring Well
- Horizontal Assessment Monitoring Well
- Vertical Assessment Monitoring Well
- Piezometer
- Angled Well Screen
- Temporary Piezometer
- Groundwater Elevation Iso-Contour
- Groundwater Elevation Iso-Contour (Inferred)
- Approximate Groundwater Flow Direction
- Plant Branch Property Boundary
- Approximate Ash Pond Boundary

JOSEPH M. IVANOWSKI — GEORGIA REGISTERED PROFESSIONAL GEOLOGIST — No. 002140

Notes:
1. Water level elevation recorded on January 29, 2024, for annual groundwater event.
2. Elevation provided in feet (ft) referenced to the North American Vertical Datum of 1988 (NAVD 88).
3. Groundwater iso-contours based on linear interpolation and extrapolation from known groundwater elevation data, and topographic elevations.
4. Groundwater elevations in parentheses were not used to make the groundwater contours because these wells are screened at a different elevation in the formation/aquifer.
5. Coordinate System: NAD 1983 State Plane Georgia West_FIPS (U.S. Feet).
6. Property Boundary Provided by Southern Company Services.
7. Aerial: Google Earth Imagery, November 2019 and Georgia Power Company, January 2024.

0 1,500 3,000
Scale in Feet

POTENTIOMETRIC SURFACE CONTOUR MAP - JANUARY 2024

GEORGIA POWER COMPANY
PLANT BRANCH AP-BCD
PUTNAM COUNTY, GEORGIA

Prepared For: Georgia Power

Prepared By: Geosyntec consultants

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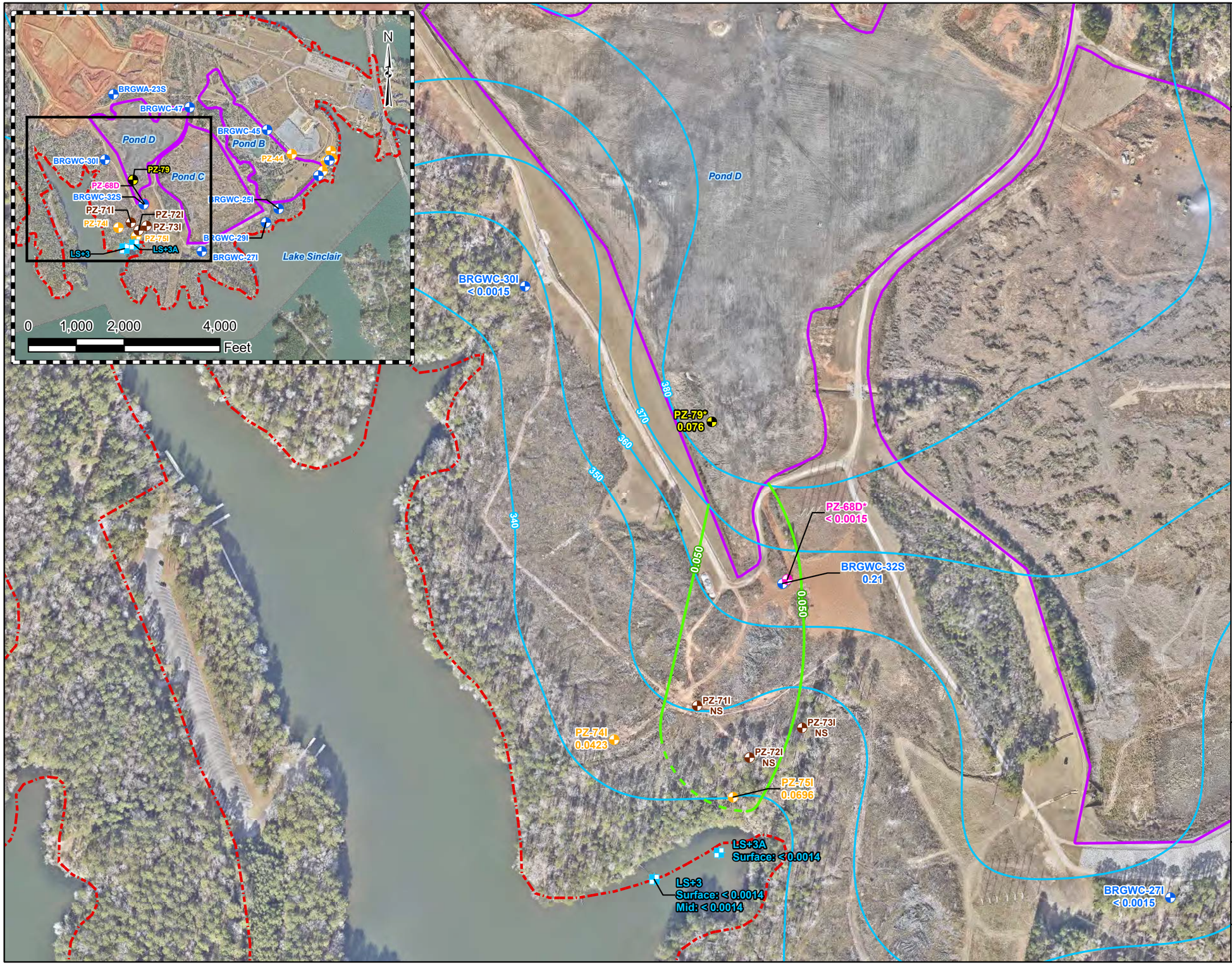
FIGURE 4



LEGEND

- Detection Monitoring Well
- Horizontal Assessment Monitoring Well
- Vertical Assessment Monitoring Well
- Piezometer
- Temporary Interstitial Piezometer
- Surface Water Sample Point
- Groundwater Elevation Iso-Contour (August 2023)
- 0.050 Selenium GWPS Iso-Concentration Contour (mg/L) (dashed where inferred)
- Plant Branch Property Boundary
- Approximate Ash Pond Boundary

Notes:
1. Concentration data from groundwater samples collected during the August 2023, semiannual monitoring event.
2. Concentrations are reported in milligrams per liter (mg/L).
3. Water level elevation recorded on August 21, 2023.
4. Elevation provided in feet (ft) referenced to the North American Vertical Datum (NAVD) 88.
5. The Groundwater Protection Standards (GWPS) for selenium is 0.050 mg/L.
6. * - Data reported was not used to generate the iso-concentration contour.
7. NS indicates location not sampled during event.
8. Property Boundary Provided by Southern Company Services.
9. Aerial: Google Earth Imagery, November 2019 and Georgia Power Company, January 2024.

0 300 600
Scale in Feet

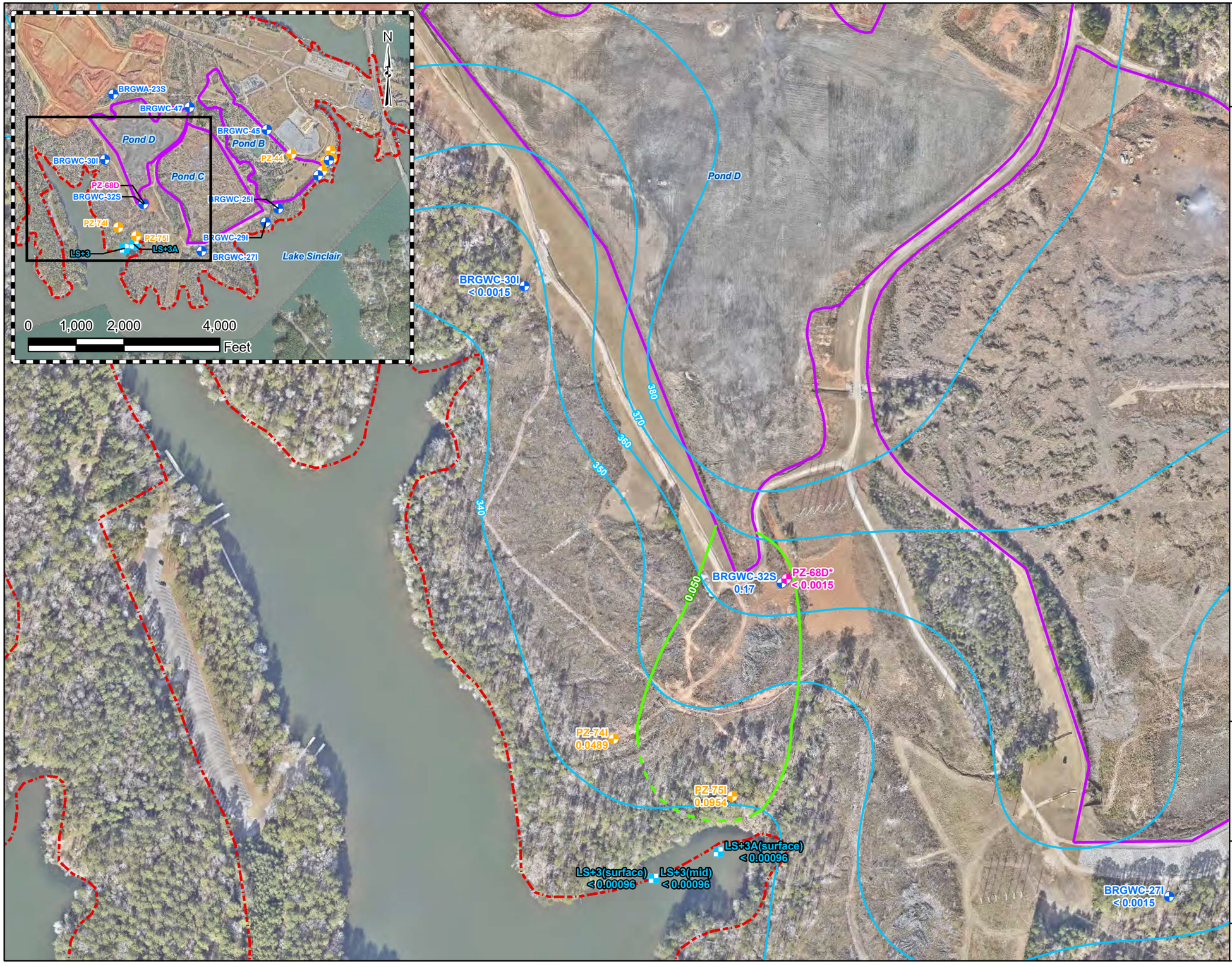
ISO-CONCENTRATION MAP, SELENIUM - AUGUST 2023

GEORGIA POWER COMPANY
PLANT BRANCH AP-BCD
PUTNAM COUNTY, GEORGIA

Prepared For: Georgia Power
Prepared By: Geosyntec consultants

KENNESAW, GA | JULY 2024

FIGURE 5



N

LEGEND

- Detection Monitoring Well
- Horizontal Assessment Monitoring Well
- Vertical Assessment Monitoring Well
- Surface Water Sample Point
- Groundwater Elevation Iso-Contour (January 2024)
- 0.050 Selenium GWPS Iso-Concentration Contour (mg/L) (dashed where inferred)
- Plant Branch Property Boundary
- Approximate Ash Pond Boundary

Notes:
1. Concentration data from groundwater samples collected during the January/February2024, annual monitoring event.
2. Concentrations are reported in milligrams per liter (mg/L).
3. Water level elevation recorded on January 29, 2024.
4. Elevation provided in feet (ft) referenced to the North American Vertical Datum (NAVD) 88.
5. The Groundwater Protection Standards (GWPS) for selenium is 0.050 mg/L.
6. * - Data reported was not used to generate the iso-concentration contour.
7. Property Boundary Provided by Southern Company Services.
8. Aerial: Google Earth Imagery, November 2019 and Georgia Power Company, January 2024.

0 300 600
Scale in Feet

ISO-CONCENTRATION MAP, SELENIUM - JANUARY 2024

GEORGIA POWER COMPANY
PLANT BRANCH AP-BCD
PUTNAM COUNTY, GEORGIA

Prepared For: Georgia Power

Prepared By: Geosyntec consultants

KENNESAW, GA | JULY 2024

FIGURE 6

APPENDIX A

Well Maintenance and Repair Documentation Memoranda

ATLANTIC COAST CONSULTING, INC.

Our work helps produce a cleaner environment for all.

Memorandum

To: Joju Abraham, Southern Company Services
Ben Hodges, Georgia Power Company
Regina Linch, Plant Branch

From: Atlantic Coast Consulting

Date November 13, 2023

Subject: Plant Branch Unit AP-BCD and AP-E
Well Maintenance and Repair Documentation
Plant Branch, Putnam County, Georgia

Atlantic Coast Consulting (ACC) has prepared this memorandum to provide documentation of any groundwater monitoring well maintenance and/or repairs performed at Plant Branch Ash Ponds during the 2023 Annual Groundwater Monitoring reporting period. The groundwater monitoring well network (including associated piezometers) for Ash Ponds B, C, and D (AP-BCD) and Ash Pond E (AP-E) at Plant Branch were inspected on 8/21/2023. The groundwater monitoring well network was observed to be well maintained and in good condition; no deficiencies requiring maintenance or repair were identified.

Well Inspection

Site Name: Plant Branch

Date: 08/21/2023

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

Well ID:	Location/Identification			
	Visible and accessible	Properly identified with correct well ID	Located in high traffic area; does the well require protection from traffic	Acceptable drainage around well (no standing water, not located in obvious drainage flow path)
BRGWA-2S	Yes	Yes	No	Yes
BRGWA-2I	Yes	Yes	No	Yes
BRGWA-5S	Yes	Yes	No	Yes
BRGWA-5I	Yes	Yes	No	Yes
BRGWA-6S	Yes	Yes	No	Yes
BRGWA-23S	Yes	Yes	No	Yes
BRGWC-25I	Yes	Yes	No	Yes
BRGWC-27I	Yes	Yes	No	Yes
BRGWC-29I	Yes	Yes	No	Yes
BRGWC-30I	Yes	Yes	No	Yes
BRGWC-32S	Yes	Yes	No	Yes
BRGWC-45	Yes	Yes	No	Yes
BRGWC-47	Yes	Yes	No	Yes
BRGWC-50	Yes	Yes	No	Yes
BRGWC-52I	Yes	Yes	No	Yes
BRGWC-17S	Yes	Yes	No	Yes
BRGWC-33S	Yes	Yes	No	Yes
BRGWC-34S	Yes	Yes	No	Yes
BRGWC-35S	Yes	Yes	No	Yes
BRGWC-36S	Yes	Yes	No	Yes
BRGWC-37S	Yes	Yes	No	Yes
BRGWC-38S	Yes	Yes	No	Yes

Well Inspection

Site Name: Plant Branch

Date: 08/21/2023

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

Well ID:	Protective Casing				
	Free from apparent damage and able to be secured	No degradation or deterioration	Functioning weep hole	Annular space clear of debris and water, or filled with pea gravel/sand	Locked and is the lock in good condition
BRGWA-2S	Yes	Yes	Yes	Yes	Yes
BRGWA-2I	Yes	Yes	Yes	Yes	Yes
BRGWA-5S	Yes	Yes	Yes	Yes	Yes
BRGWA-5I	Yes	Yes	Yes	Yes	Yes
BRGWA-6S	Yes	Yes	Yes	Yes	Yes
BRGWA-23S	Yes	Yes	Yes	Yes	Yes
BRGWC-25I	Yes	Yes	Yes	Yes	Yes
BRGWC-27I	Yes	Yes	Yes	Yes	Yes
BRGWC-29I	Yes	Yes	Yes	Yes	Yes
BRGWC-30I	Yes	Yes	Yes	Yes	Yes
BRGWC-32S	Yes	Yes	Yes	Yes	Yes
BRGWC-45	Yes	Yes	Yes	Yes	Yes
BRGWC-47	Yes	Yes	Yes	Yes	Yes
BRGWC-50	Yes	Yes	Yes	Yes	Yes
BRGWC-52I	Yes	Yes	Yes	Yes	Yes
BRGWC-17S	Yes	Yes	Yes	Yes	Yes
BRGWC-33S	Yes	Yes	Yes	Yes	Yes
BRGWC-34S	Yes	Yes	Yes	Yes	Yes
BRGWC-35S	Yes	Yes	Yes	Yes	Yes
BRGWC-36S	Yes	Yes	Yes	Yes	Yes
BRGWC-37S	Yes	Yes	Yes	Yes	Yes
BRGWC-38S	Yes	Yes	Yes	Yes	Yes

Well Inspection

Site Name: Plant Branch

Date: 08/21/2023

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

	Surface Pad			Internal Casing		
Well ID:	Good condition (not cracked/ broken)	Sloped away from the protective casing	In complete contact with the ground surface and stable	Cap prevents entry of foreign material into the well	Free of kinks/bends, or any obstructions from foreign objects (such as bailers)	Properly vented for equilibration of air pressure
BRGWA-2S	Yes	Yes	Yes	Yes	Yes	Yes
BRGWA-2I	Yes	Yes	Yes	Yes	Yes	Yes
BRGWA-5S	Yes	Yes	Yes	Yes	Yes	Yes
BRGWA-5I	Yes	Yes	Yes	Yes	Yes	Yes
BRGWA-6S	Yes	Yes	Yes	Yes	Yes	Yes
BRGWA-23S	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-25I	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-27I	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-29I	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-30I	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-32S	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-45	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-47	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-50	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-52I	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-17S	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-33S	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-34S	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-35S	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-36S	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-37S	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-38S	Yes	Yes	Yes	Yes	Yes	Yes

Well Inspection

Site Name: Plant Branch

Date: 08/21/2023

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

Well ID:	Corrective actions as needed, by date:
BRGWA-2S	
BRGWA-2I	
BRGWA-5S	
BRGWA-5I	
BRGWA-6S	
BRGWA-23S	
BRGWC-25I	
BRGWC-27I	
BRGWC-29I	
BRGWC-30I	
BRGWC-32S	
BRGWC-45	
BRGWC-47	
BRGWC-50	
BRGWC-52I	
BRGWC-17S	
BRGWC-33S	
BRGWC-34S	
BRGWC-35S	
BRGWC-36S	
BRGWC-37S	
BRGWC-38S	

Well Inspection

Site Name: Plant Branch

Date: 08/21/2023

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

Well ID:	Location/Identification			
	Visible and accessible	Properly identified with correct well ID	Located in high traffic area; does the well require protection from traffic	Acceptable drainage around well (no standing water, not located in obvious drainage flow path)
PZ-44	Yes	Yes	No	Yes
PZ-50D	Yes	Yes	No	Yes
PZ-51S	Yes	Yes	No	Yes
PZ-51I	Yes	Yes	No	Yes
PZ-51D	Yes	Yes	No	Yes
PZ-57I	Yes	Yes	No	Yes
PZ-58I	Yes	Yes	No	Yes
PZ-59I	Yes	Yes	No	Yes
PZ-60I	Yes	Yes	No	Yes
PZ-61I	Yes	Yes	No	Yes
PZ-62I	Yes	Yes	No	Yes
PZ-63I	Yes	Yes	No	Yes
PZ-64I	Yes	Yes	No	Yes
PZ-65I	Yes	Yes	No	Yes
PZ-66I	Yes	Yes	No	Yes
PZ-68D	Yes	Yes	No	Yes
PZ-74I	Yes	Yes	No	Yes
PZ-75I	Yes	Yes	No	Yes
PZ-79I	Yes	Yes	No	Yes
PZ-13S	Yes	Yes	No	Yes
PZ-52D	Yes	Yes	No	Yes
PZ-53D	Yes	Yes	No	Yes
PZ-70I	Yes	Yes	No	Yes
PZ-76I	Yes	Yes	No	Yes
PZ-77I	Yes	Yes	No	Yes
PZ-79	Yes	Yes	No	Yes

Well Inspection

Site Name: Plant Branch

Date: 08/21/2023

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

Well ID:	Protective Casing				
	Free from apparent damage and able to be secured	No degradation or deterioration	Functioning weep hole	Annular space clear of debris and water, or filled with pea gravel/sand	Locked and is the lock in good condition
PZ-44	Yes	Yes	Yes	Yes	Yes
PZ-50D	Yes	Yes	Yes	Yes	Yes
PZ-51S	Yes	Yes	Yes	Yes	Yes
PZ-51I	Yes	Yes	Yes	Yes	Yes
PZ-51D	Yes	Yes	Yes	Yes	Yes
PZ-57I	Yes	Yes	Yes	Yes	Yes
PZ-58I	Yes	Yes	Yes	Yes	Yes
PZ-59I	Yes	Yes	Yes	Yes	Yes
PZ-60I	Yes	Yes	Yes	Yes	Yes
PZ-61I	Yes	Yes	Yes	Yes	Yes
PZ-62I	Yes	Yes	Yes	Yes	Yes
PZ-63I	Yes	Yes	Yes	Yes	Yes
PZ-64I	Yes	Yes	Yes	Yes	Yes
PZ-65I	Yes	Yes	Yes	Yes	Yes
PZ-66I	Yes	Yes	Yes	Yes	Yes
PZ-68D	Yes	Yes	Yes	Yes	Yes
PZ-74I	Yes	Yes	Yes	Yes	Yes
PZ-75I	Yes	Yes	Yes	Yes	Yes
PZ-79I	Yes	Yes	Yes	Yes	Yes
PZ-13S	Yes	Yes	Yes	Yes	Yes
PZ-52D	Yes	Yes	Yes	Yes	Yes
PZ-53D	Yes	Yes	Yes	Yes	Yes
PZ-70I	Yes	Yes	Yes	Yes	Yes
PZ-76I	Yes	Yes	Yes	Yes	Yes
PZ-77I	Yes	Yes	Yes	Yes	Yes
PZ-79	Yes	Yes	Yes	Yes	Yes

Well Inspection

Site Name: Plant Branch

Date: 08/21/2023

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

Well ID:	Surface Pad			Internal Casing		
	Good condition (not cracked/ broken)	Sloped away from the protective casing	In complete contact with the ground surface and stable	Cap prevents entry of foreign material into the well	Free of kinks/bends, or any obstructions from foreign objects (such as bailers)	Properly vented for equilibration of air pressure
PZ-44	Yes	Yes	Yes	Yes	Yes	Yes
PZ-50D	Yes	Yes	Yes	Yes	Yes	Yes
PZ-51S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-51I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-51D	Yes	Yes	Yes	Yes	Yes	Yes
PZ-57I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-58I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-59I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-60I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-61I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-62I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-63I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-64I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-65I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-66I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-68D	Yes	Yes	Yes	Yes	Yes	Yes
PZ-74I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-75I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-79I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-13S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-52D	Yes	Yes	Yes	Yes	Yes	Yes
PZ-53D	Yes	Yes	Yes	Yes	Yes	Yes
PZ-70I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-76I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-77I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-79	Yes	Yes	Yes	Yes	Yes	Yes

Well Inspection

Site Name: Plant Branch

Date: 08/21/2023

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

Well ID:	Corrective actions as needed, by date:
PZ-44	
PZ-50D	
PZ-51S	
PZ-51I	
PZ-51D	
PZ-57I	
PZ-58I	
PZ-59I	
PZ-60I	
PZ-61I	
PZ-62I	
PZ-63I	
PZ-64I	
PZ-65I	
PZ-66I	
PZ-68D	
PZ-74I	
PZ-75I	
PZ-79I	
PZ-13S	
PZ-52D	
PZ-53D	
PZ-70I	
PZ-76I	
PZ-77I	
PZ-79	

Well Inspection

Site Name: Plant Branch

Date: 08/21/2023

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

Well ID:	Location/Identification			
	Visible and accessible	Properly identified with correct well ID	Located in high traffic area; does the well require protection from traffic	Acceptable drainage around well (no standing water, not located in obvious drainage flow path)
PZ-1S	Yes	Yes	No	Yes
PZ-1I	Yes	Yes	No	Yes
PZ-1D	Yes	Yes	No	Yes
PZ-3S	Yes	Yes	No	Yes
PZ-3I	Yes	Yes	No	Yes
PZ-3D	Yes	Yes	No	Yes
PZ-4S	Yes	Yes	No	Yes
PZ-4I	Yes	Yes	No	Yes
PZ-7S	Yes	Yes	No	Yes
PZ-8S	Yes	Yes	No	Yes
PZ-9S	Yes	Yes	No	Yes
PZ-10S	Yes	Yes	No	Yes
PZ-14S	Yes	Yes	No	Yes
PZ-14I	Yes	Yes	No	Yes
PZ-15S	Yes	Yes	No	Yes
PZ-15I	Yes	Yes	No	Yes
PZ-16S	Yes	Yes	No	Yes
PZ-16I	Yes	Yes	No	Yes
PZ-17I	Yes	Yes	No	Yes
PZ-18S	Yes	Yes	No	Yes
PZ-18I	Yes	Yes	No	Yes
PZ-19S	Yes	Yes	No	Yes
PZ-19I	Yes	Yes	No	Yes
PZ-20S	Yes	Yes	No	Yes
PZ-20I	Yes	Yes	No	Yes
PZ-21S	Yes	Yes	No	Yes
PZ-21I	Yes	Yes	No	Yes
PZ-23I	Yes	Yes	No	Yes
BRGWC-24S	Yes	Yes	No	Yes
PZ-26I	Yes	Yes	No	Yes
PZ-28I	Yes	Yes	No	Yes
PZ-31S	Yes	Yes	No	Yes
PZ-40S	Yes	Yes	No	Yes
PZ-41S	Yes	Yes	No	Yes

Well Inspection

Site Name: Plant Branch

Date: 08/21/2023

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

Well ID:	Protective Casing				
	Free from apparent damage and able to be secured	No degradation or deterioration	Functioning weep hole	Annular space clear of debris and water, or filled with pea gravel/sand	Locked and is the lock in good condition
PZ-1S	Yes	Yes	Yes	Yes	Yes
PZ-1I	Yes	Yes	Yes	Yes	Yes
PZ-1D	Yes	Yes	Yes	Yes	Yes
PZ-3S	Yes	Yes	Yes	Yes	Yes
PZ-3I	Yes	Yes	Yes	Yes	Yes
PZ-3D	Yes	Yes	Yes	Yes	Yes
PZ-4S	Yes	Yes	Yes	Yes	Yes
PZ-4I	Yes	Yes	Yes	Yes	Yes
PZ-7S	Yes	Yes	Yes	Yes	Yes
PZ-8S	Yes	Yes	Yes	Yes	Yes
PZ-9S	Yes	Yes	Yes	Yes	Yes
PZ-10S	Yes	Yes	Yes	Yes	Yes
PZ-14S	Yes	Yes	Yes	Yes	Yes
PZ-14I	Yes	Yes	Yes	Yes	Yes
PZ-15S	Yes	Yes	Yes	Yes	Yes
PZ-15I	Yes	Yes	Yes	Yes	Yes
PZ-16S	Yes	Yes	Yes	Yes	Yes
PZ-16I	Yes	Yes	Yes	Yes	Yes
PZ-17I	Yes	Yes	Yes	Yes	Yes
PZ-18S	Yes	Yes	Yes	Yes	Yes
PZ-18I	Yes	Yes	Yes	Yes	Yes
PZ-19S	Yes	Yes	Yes	Yes	Yes
PZ-19I	Yes	Yes	Yes	Yes	Yes
PZ-20S	Yes	Yes	Yes	Yes	Yes
PZ-20I	Yes	Yes	Yes	Yes	Yes
PZ-21S	Yes	Yes	Yes	Yes	Yes
PZ-21I	Yes	Yes	Yes	Yes	Yes
PZ-23I	Yes	Yes	Yes	Yes	Yes
BRGWC-24S	Yes	Yes	Yes	Yes	Yes
PZ-26I	Yes	Yes	Yes	Yes	Yes
PZ-28I	Yes	Yes	Yes	Yes	Yes
PZ-31S	Yes	Yes	Yes	Yes	Yes
PZ-40S	Yes	Yes	Yes	Yes	Yes
PZ-41S	Yes	Yes	Yes	Yes	Yes

Well Inspection

Site Name: Plant Branch

Date: 08/21/2023

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

Well ID:	Surface Pad			Internal Casing		
	Good condition (not cracked/ broken)	Sloped away from the protective casing	In complete contact with the ground surface and stable	Cap prevents entry of foreign material into the well	Free of kinks/bends, or any obstructions from foreign objects (such as bailers)	Properly vented for equilibration of air pressure
PZ-1S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-1I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-1D	Yes	Yes	Yes	Yes	Yes	Yes
PZ-3S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-3I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-3D	Yes	Yes	Yes	Yes	Yes	Yes
PZ-4S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-4I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-7S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-8S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-9S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-10S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-14S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-14I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-15S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-15I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-16S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-16I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-17I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-18S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-18I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-19S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-19I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-20S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-20I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-21S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-21I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-23I	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-24S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-26I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-28I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-31S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-40S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-41S	Yes	Yes	Yes	Yes	Yes	Yes

Well Inspection

Site Name: Plant Branch

Date: 08/21/2023

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

Well ID:	Corrective actions as needed, by date:
PZ-1S	
PZ-1I	
PZ-1D	
PZ-3S	
PZ-3I	
PZ-3D	
PZ-4S	
PZ-4I	
PZ-7S	
PZ-8S	
PZ-9S	
PZ-10S	
PZ-14S	
PZ-14I	
PZ-15S	
PZ-15I	
PZ-16S	
PZ-16I	
PZ-17I	
PZ-18S	
PZ-18I	
PZ-19S	
PZ-19I	
PZ-20S	
PZ-20I	
PZ-21S	
PZ-21I	
PZ-23I	
BRGWC-24S	
PZ-26I	
PZ-28I	
PZ-31S	
PZ-40S	
PZ-41S	

Well Inspection

Site Name: Plant Branch

Date: 08/21/2023

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

Well ID:	Location/Identification			
	Visible and accessible	Properly identified with correct well ID	Located in high traffic area; does the well require protection from traffic	Acceptable drainage around well (no standing water, not located in obvious drainage flow path)
PZ-42S	Yes	Yes	No	Yes
PZ-43	Yes	Yes	No	Yes
PZ-46	Yes	Yes	No	Yes
PZ-48	Yes	Yes	No	Yes
PZ-49	Yes	Yes	No	Yes
PZ-54	Yes	Yes	No	Yes
PZ-55	Yes	Yes	No	Yes
PZ-56	Yes	Yes	No	Yes
PZ-67	Yes	Yes	No	Yes
PZ-69I	Yes	Yes	No	Yes
PZ-71I	Yes	Yes	No	Yes
PZ-72I	Yes	Yes	No	Yes
PZ-73I	Yes	Yes	No	Yes

Well Inspection

Site Name: Plant Branch

Date: 08/21/2023

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

Well ID:	Protective Casing				
	Free from apparent damage and able to be secured	No degradation or deterioration	Functioning weep hole	Annular space clear of debris and water, or filled with pea gravel/sand	Locked and is the lock in good condition
PZ-42S	Yes	Yes	Yes	Yes	Yes
PZ-43	Yes	Yes	Yes	Yes	Yes
PZ-46	Yes	Yes	Yes	Yes	Yes
PZ-48	Yes	Yes	Yes	Yes	Yes
PZ-49	Yes	Yes	Yes	Yes	Yes
PZ-54	Yes	Yes	Yes	Yes	Yes
PZ-55	Yes	Yes	Yes	Yes	Yes
PZ-56	Yes	Yes	Yes	Yes	Yes
PZ-67	Yes	Yes	Yes	Yes	Yes
PZ-69I	Yes	Yes	Yes	Yes	Yes
PZ-71I	Yes	Yes	Yes	Yes	Yes
PZ-72I	Yes	Yes	Yes	Yes	Yes
PZ-73I	Yes	Yes	Yes	Yes	Yes

Well Inspection

Site Name: Plant Branch

Date: 08/21/2023

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

Well ID:	Surface Pad			Internal Casing		
	Good condition (not cracked/ broken)	Sloped away from the protective casing	In complete contact with the ground surface and stable	Cap prevents entry of foreign material into the well	Free of kinks/bends, or any obstructions from foreign objects (such as bailers)	Properly vented for equilibration of air pressure
PZ-42S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-43	Yes	Yes	Yes	Yes	Yes	Yes
PZ-46	Yes	Yes	Yes	Yes	Yes	Yes
PZ-48	Yes	Yes	Yes	Yes	Yes	Yes
PZ-49	Yes	Yes	Yes	Yes	Yes	Yes
PZ-54	Yes	Yes	Yes	Yes	Yes	Yes
PZ-55	Yes	Yes	Yes	Yes	Yes	Yes
PZ-56	Yes	Yes	Yes	Yes	Yes	Yes
PZ-67	Yes	Yes	Yes	Yes	Yes	Yes
PZ-69I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-71I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-72I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-73I	Yes	Yes	Yes	Yes	Yes	Yes

Well Inspection

Site Name: Plant Branch

Date: 08/21/2023

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

Well ID:	Corrective actions as needed, by date:
PZ-42S	
PZ-43	
PZ-46	
PZ-48	
PZ-49	
PZ-54	
PZ-55	
PZ-56	
PZ-67	
PZ-69I	
PZ-71I	
PZ-72I	
PZ-73I	

Well Inspection

Site Name: Plant Branch

Date: 01/29/2024

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

Well ID:	Location/Identification			
	Visible and accessible	Properly identified with correct well ID	Located in high traffic area; does the well require protection from traffic	Acceptable drainage around well (no standing water, not located in obvious drainage flow path)
BRGWA-2S	Yes	Yes	No	Yes
BRGWA-2I	Yes	Yes	No	Yes
BRGWA-5S	Yes	Yes	No	Yes
BRGWA-5I	Yes	Yes	No	Yes
BRGWA-6S	Yes	Yes	No	Yes
BRGWA-23S	Yes	Yes	No	Yes
BRGWC-25I	Yes	Yes	No	Yes
BRGWC-27I	Yes	Yes	No	Yes
BRGWC-29I	Yes	Yes	No	Yes
BRGWC-30I	Yes	Yes	No	Yes
BRGWC-32S	Yes	Yes	No	Yes
BRGWC-45	Yes	Yes	No	Yes
BRGWC-47	Yes	Yes	No	Yes
BRGWC-50	Yes	Yes	No	Yes
BRGWC-52I	Yes	Yes	No	Yes
BRGWC-17S	Yes	Yes	No	Yes
BRGWC-33S	Yes	Yes	No	Yes
BRGWC-34S	Yes	Yes	No	Yes
BRGWC-35S	Yes	Yes	No	Yes
BRGWC-36S	Yes	Yes	No	Yes
BRGWC-37S	Yes	Yes	No	Yes
BRGWC-38S	Yes	Yes	No	Yes

Well Inspection

Site Name: Plant Branch

Date: 01/29/2024

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

	Protective Casing				
Well ID:	Free from apparent damage and able to be secured	No degradation or deterioration	Functioning weep hole	Annular space clear of debris and water, or filled with pea gravel/sand	Locked and is the lock in good condition
BRGWA-2S	Yes	Yes	Yes	Yes	Yes
BRGWA-2I	Yes	Yes	Yes	Yes	Yes
BRGWA-5S	Yes	Yes	Yes	Yes	Yes
BRGWA-5I	Yes	Yes	Yes	Yes	Yes
BRGWA-6S	Yes	Yes	Yes	Yes	Yes
BRGWA-23S	Yes	Yes	Yes	Yes	Yes
BRGWC-25I	Yes	Yes	Yes	Yes	Yes
BRGWC-27I	Yes	Yes	Yes	Yes	Yes
BRGWC-29I	Yes	Yes	Yes	Yes	Yes
BRGWC-30I	Yes	Yes	Yes	Yes	Yes
BRGWC-32S	Yes	Yes	Yes	Yes	Yes
BRGWC-45	Yes	Yes	Yes	Yes	Yes
BRGWC-47	Yes	Yes	Yes	Yes	Yes
BRGWC-50	Yes	Yes	Yes	Yes	Yes
BRGWC-52I	Yes	Yes	Yes	Yes	Yes
BRGWC-17S	Yes	Yes	Yes	Yes	Yes
BRGWC-33S	Yes	Yes	Yes	Yes	Yes
BRGWC-34S	Yes	Yes	Yes	Yes	Yes
BRGWC-35S	Yes	Yes	Yes	Yes	Yes
BRGWC-36S	Yes	Yes	Yes	Yes	Yes
BRGWC-37S	Yes	Yes	Yes	Yes	Yes
BRGWC-38S	Yes	Yes	Yes	Yes	Yes

Well Inspection

Site Name: Plant Branch

Date: 01/29/2024

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

Well ID:	Surface Pad			Internal Casing		
	Good condition (not cracked/ broken)	Sloped away from the protective casing	In complete contact with the ground surface and stable	Cap prevents entry of foreign material into the well	Free of kinks/bends, or any obstructions from foreign objects (such as bailers)	Properly vented for equilibration of air pressure
BRGWA-2S	Yes	Yes	Yes	Yes	Yes	Yes
BRGWA-2I	Yes	Yes	Yes	Yes	Yes	Yes
BRGWA-5S	Yes	Yes	Yes	Yes	Yes	Yes
BRGWA-5I	Yes	Yes	Yes	Yes	Yes	Yes
BRGWA-6S	Yes	Yes	Yes	Yes	Yes	Yes
BRGWA-23S	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-25I	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-27I	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-29I	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-30I	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-32S	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-45	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-47	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-50	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-52I	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-17S	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-33S	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-34S	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-35S	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-36S	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-37S	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-38S	Yes	Yes	Yes	Yes	Yes	Yes

Well Inspection

Site Name: Plant Branch

Date: 01/29/2024

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

Well ID:	Corrective actions as needed, by date:
BRGWA-2S	
BRGWA-2I	
BRGWA-5S	
BRGWA-5I	
BRGWA-6S	
BRGWA-23S	
BRGWC-25I	
BRGWC-27I	
BRGWC-29I	
BRGWC-30I	
BRGWC-32S	
BRGWC-45	
BRGWC-47	
BRGWC-50	
BRGWC-52I	
BRGWC-17S	
BRGWC-33S	
BRGWC-34S	
BRGWC-35S	
BRGWC-36S	
BRGWC-37S	
BRGWC-38S	

Well Inspection

Site Name: Plant Branch

Date: 01/29/2024

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

Well ID:	Location/Identification			
	Visible and accessible	Properly identified with correct well ID	Located in high traffic area; does the well require protection from traffic	Acceptable drainage around well (no standing water, not located in obvious drainage flow path)
PZ-44	Yes	Yes	No	Yes
PZ-50D	Yes	Yes	No	Yes
PZ-51S	Yes	Yes	No	Yes
PZ-51I	Yes	Yes	No	Yes
PZ-51D	Yes	Yes	No	Yes
PZ-57I	Yes	Yes	No	Yes
PZ-58I	Yes	Yes	No	Yes
PZ-59I	Yes	Yes	No	Yes
PZ-60I	Yes	Yes	No	Yes
PZ-61I	Yes	Yes	No	Yes
PZ-62I	Yes	Yes	No	Yes
PZ-63I	Yes	Yes	No	Yes
PZ-64I	Yes	Yes	No	Yes
PZ-65I	Yes	Yes	No	Yes
PZ-66I	Yes	Yes	No	Yes
PZ-68D	Yes	Yes	No	Yes
PZ-74I	Yes	Yes	No	Yes
PZ-75I	Yes	Yes	No	Yes
PZ-79I	Yes	Yes	No	Yes
PZ-13S	Yes	Yes	No	Yes
PZ-52D	Yes	Yes	No	Yes
PZ-53D	Yes	Yes	No	Yes
PZ-70I	Yes	Yes	No	Yes
PZ-76I	Yes	Yes	No	Yes
PZ-77I	Yes	Yes	No	Yes
PZ-79	Yes	Yes	No	Yes

Well Inspection

Site Name: Plant Branch

Date: 01/29/2024

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

Well ID:	Protective Casing				
	Free from apparent damage and able to be secured	No degradation or deterioration	Functioning weep hole	Annular space clear of debris and water, or filled with pea gravel/sand	Locked and is the lock in good condition
PZ-44	Yes	Yes	Yes	Yes	Yes
PZ-50D	Yes	Yes	Yes	Yes	Yes
PZ-51S	Yes	Yes	Yes	Yes	Yes
PZ-51I	Yes	Yes	Yes	Yes	Yes
PZ-51D	Yes	Yes	Yes	Yes	Yes
PZ-57I	Yes	Yes	Yes	Yes	Yes
PZ-58I	Yes	Yes	Yes	Yes	Yes
PZ-59I	Yes	Yes	Yes	Yes	Yes
PZ-60I	Yes	Yes	Yes	Yes	Yes
PZ-61I	Yes	Yes	Yes	Yes	Yes
PZ-62I	Yes	Yes	Yes	Yes	Yes
PZ-63I	Yes	Yes	Yes	Yes	Yes
PZ-64I	Yes	Yes	Yes	Yes	Yes
PZ-65I	Yes	Yes	Yes	Yes	Yes
PZ-66I	Yes	Yes	Yes	Yes	Yes
PZ-68D	Yes	Yes	Yes	Yes	Yes
PZ-74I	Yes	Yes	Yes	Yes	Yes
PZ-75I	Yes	Yes	Yes	Yes	Yes
PZ-79I	Yes	Yes	Yes	Yes	Yes
PZ-13S	Yes	Yes	Yes	Yes	Yes
PZ-52D	Yes	Yes	Yes	Yes	Yes
PZ-53D	Yes	Yes	Yes	Yes	Yes
PZ-70I	Yes	Yes	Yes	Yes	Yes
PZ-76I	Yes	Yes	Yes	Yes	Yes
PZ-77I	Yes	Yes	Yes	Yes	Yes
PZ-79	Yes	Yes	Yes	Yes	Yes

Well Inspection

Site Name: Plant Branch

Date: 01/29/2024

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

Well ID:	Surface Pad			Internal Casing		
	Good condition (not cracked/ broken)	Sloped away from the protective casing	In complete contact with the ground surface and stable	Cap prevents entry of foreign material into the well	Free of kinks/bends, or any obstructions from foreign objects (such as bailers)	Properly vented for equilibration of air pressure
PZ-44	Yes	Yes	Yes	Yes	Yes	Yes
PZ-50D	Yes	Yes	Yes	Yes	Yes	Yes
PZ-51S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-51I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-51D	Yes	Yes	Yes	Yes	Yes	Yes
PZ-57I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-58I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-59I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-60I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-61I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-62I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-63I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-64I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-65I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-66I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-68D	Yes	Yes	Yes	Yes	Yes	Yes
PZ-74I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-75I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-79I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-13S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-52D	Yes	Yes	Yes	Yes	Yes	Yes
PZ-53D	Yes	Yes	Yes	Yes	Yes	Yes
PZ-70I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-76I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-77I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-79	Yes	Yes	Yes	Yes	Yes	Yes

Well Inspection

Site Name: Plant Branch

Date: 01/29/2024

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

Well ID:	Corrective actions as needed, by date:
PZ-44	
PZ-50D	
PZ-51S	
PZ-51I	
PZ-51D	
PZ-57I	
PZ-58I	
PZ-59I	
PZ-60I	
PZ-61I	
PZ-62I	
PZ-63I	
PZ-64I	
PZ-65I	
PZ-66I	
PZ-68D	
PZ-74I	
PZ-75I	
PZ-79I	
PZ-13S	
PZ-52D	
PZ-53D	
PZ-70I	
PZ-76I	
PZ-77I	
PZ-79	

Well Inspection

Site Name: Plant Branch

Date: 01/29/2024

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

Well ID:	Location/Identification			
	Visible and accessible	Properly identified with correct well ID	Located in high traffic area; does the well require protection from traffic	Acceptable drainage around well (no standing water, not located in obvious drainage flow path)
PZ-1S	Yes	Yes	No	Yes
PZ-1I	Yes	Yes	No	Yes
PZ-1D	Yes	Yes	No	Yes
PZ-3S	Yes	Yes	No	Yes
PZ-3I	Yes	Yes	No	Yes
PZ-3D	Yes	Yes	No	Yes
PZ-4S	Yes	Yes	No	Yes
PZ-4I	Yes	Yes	No	Yes
PZ-7S	Yes	Yes	No	Yes
PZ-8S	Yes	Yes	No	Yes
PZ-9S	Yes	Yes	No	Yes
PZ-10S	Yes	Yes	No	Yes
PZ-14S	Yes	Yes	No	Yes
PZ-14I	Yes	Yes	No	Yes
PZ-15S	Yes	Yes	No	Yes
PZ-15I	Yes	Yes	No	Yes
PZ-16S	Yes	Yes	No	Yes
PZ-16I	Yes	Yes	No	Yes
PZ-17I	Yes	Yes	No	Yes
PZ-18S	Yes	Yes	No	Yes
PZ-18I	Yes	Yes	No	Yes
PZ-19S	Yes	Yes	No	Yes
PZ-19I	Yes	Yes	No	Yes
PZ-20S	Yes	Yes	No	Yes
PZ-20I	Yes	Yes	No	Yes
PZ-21S	Yes	Yes	No	Yes
PZ-21I	Yes	Yes	No	Yes
PZ-23I	Yes	Yes	No	Yes
BRGWC-24S	Yes	Yes	No	Yes
PZ-26I	Yes	Yes	No	Yes
PZ-28I	Yes	Yes	No	Yes
PZ-31S	Yes	Yes	No	Yes
PZ-40S	Yes	Yes	No	Yes
PZ-41S	Yes	Yes	No	Yes

Well Inspection

Site Name: Plant Branch

Date: 01/29/2024

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

Well ID:	Protective Casing				
	Free from apparent damage and able to be secured	No degradation or deterioration	Functioning weep hole	Annular space clear of debris and water, or filled with pea gravel/sand	Locked and is the lock in good condition
PZ-1S	Yes	Yes	Yes	Yes	Yes
PZ-1I	Yes	Yes	Yes	Yes	Yes
PZ-1D	Yes	Yes	Yes	Yes	Yes
PZ-3S	Yes	Yes	Yes	Yes	Yes
PZ-3I	Yes	Yes	Yes	Yes	Yes
PZ-3D	Yes	Yes	Yes	Yes	Yes
PZ-4S	Yes	Yes	Yes	Yes	Yes
PZ-4I	Yes	Yes	Yes	Yes	Yes
PZ-7S	Yes	Yes	Yes	Yes	Yes
PZ-8S	Yes	Yes	Yes	Yes	Yes
PZ-9S	Yes	Yes	Yes	Yes	Yes
PZ-10S	Yes	Yes	Yes	Yes	Yes
PZ-14S	Yes	Yes	Yes	Yes	Yes
PZ-14I	Yes	Yes	Yes	Yes	Yes
PZ-15S	Yes	Yes	Yes	Yes	Yes
PZ-15I	Yes	Yes	Yes	Yes	Yes
PZ-16S	Yes	Yes	Yes	Yes	Yes
PZ-16I	Yes	Yes	Yes	Yes	Yes
PZ-17I	Yes	Yes	Yes	Yes	Yes
PZ-18S	Yes	Yes	Yes	Yes	Yes
PZ-18I	Yes	Yes	Yes	Yes	Yes
PZ-19S	Yes	Yes	Yes	Yes	Yes
PZ-19I	Yes	Yes	Yes	Yes	Yes
PZ-20S	Yes	Yes	Yes	Yes	Yes
PZ-20I	Yes	Yes	Yes	Yes	Yes
PZ-21S	Yes	Yes	Yes	Yes	Yes
PZ-21I	Yes	Yes	Yes	Yes	Yes
PZ-23I	Yes	Yes	Yes	Yes	Yes
BRGWC-24S	Yes	Yes	Yes	Yes	Yes
PZ-26I	Yes	Yes	Yes	Yes	Yes
PZ-28I	Yes	Yes	Yes	Yes	Yes
PZ-31S	Yes	Yes	Yes	Yes	Yes
PZ-40S	Yes	Yes	Yes	Yes	Yes
PZ-41S	Yes	Yes	Yes	Yes	Yes

Well Inspection

Site Name: Plant Branch

Date: 01/29/2024

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

Well ID:	Surface Pad			Internal Casing		
	Good condition (not cracked/ broken)	Sloped away from the protective casing	In complete contact with the ground surface and stable	Cap prevents entry of foreign material into the well	Free of kinks/bends, or any obstructions from foreign objects (such as bailers)	Properly vented for equilibration of air pressure
PZ-1S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-1I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-1D	Yes	Yes	Yes	Yes	Yes	Yes
PZ-3S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-3I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-3D	Yes	Yes	Yes	Yes	Yes	Yes
PZ-4S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-4I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-7S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-8S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-9S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-10S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-14S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-14I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-15S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-15I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-16S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-16I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-17I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-18S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-18I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-19S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-19I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-20S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-20I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-21S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-21I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-23I	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-24S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-26I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-28I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-31S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-40S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-41S	Yes	Yes	Yes	Yes	Yes	Yes

Well Inspection

Site Name: Plant Branch

Date: 01/29/2024

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

Well ID:	Corrective actions as needed, by date:
PZ-1S	
PZ-1I	
PZ-1D	
PZ-3S	
PZ-3I	
PZ-3D	
PZ-4S	
PZ-4I	
PZ-7S	
PZ-8S	
PZ-9S	
PZ-10S	
PZ-14S	
PZ-14I	
PZ-15S	
PZ-15I	
PZ-16S	
PZ-16I	
PZ-17I	
PZ-18S	
PZ-18I	
PZ-19S	
PZ-19I	
PZ-20S	
PZ-20I	
PZ-21S	
PZ-21I	
PZ-23I	
BRGWC-24S	
PZ-26I	
PZ-28I	
PZ-31S	
PZ-40S	
PZ-41S	

Well Inspection

Site Name: Plant Branch

Date: 01/29/2024

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

Well ID:	Location/Identification			
	Visible and accessible	Properly identified with correct well ID	Located in high traffic area; does the well require protection from traffic	Acceptable drainage around well (no standing water, not located in obvious drainage flow path)
PZ-42S	Yes	Yes	No	Yes
PZ-43	Yes	Yes	No	Yes
PZ-46	Yes	Yes	No	Yes
PZ-48	Yes	Yes	No	Yes
PZ-49	Yes	Yes	No	Yes
PZ-54	Yes	Yes	No	Yes
PZ-55	Yes	Yes	No	Yes
PZ-56	Yes	Yes	No	Yes
PZ-67	Yes	Yes	No	Yes
PZ-69I	Yes	Yes	No	Yes
PZ-71I	Yes	Yes	No	Yes
PZ-72I	Yes	Yes	No	Yes
PZ-73I	Yes	Yes	No	Yes

Well Inspection

Site Name: Plant Branch

Date: 01/29/2024

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

Well ID:	Protective Casing				
	Free from apparent damage and able to be secured	No degradation or deterioration	Functioning weep hole	Annular space clear of debris and water, or filled with pea gravel/sand	Locked and is the lock in good condition
PZ-42S	Yes	Yes	Yes	Yes	Yes
PZ-43	Yes	Yes	Yes	Yes	Yes
PZ-46	Yes	Yes	Yes	Yes	Yes
PZ-48	Yes	Yes	Yes	Yes	Yes
PZ-49	Yes	Yes	Yes	Yes	Yes
PZ-54	Yes	Yes	Yes	Yes	Yes
PZ-55	Yes	Yes	Yes	Yes	Yes
PZ-56	Yes	Yes	Yes	Yes	Yes
PZ-67	Yes	Yes	Yes	Yes	Yes
PZ-69I	Yes	Yes	Yes	Yes	Yes
PZ-71I	Yes	Yes	Yes	Yes	Yes
PZ-72I	Yes	Yes	Yes	Yes	Yes
PZ-73I	Yes	Yes	Yes	Yes	Yes

Well Inspection

Site Name: Plant Branch

Date: 01/29/2024

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

Well ID:	Surface Pad			Internal Casing		
	Good condition (not cracked/ broken)	Sloped away from the protective casing	In complete contact with the ground surface and stable	Cap prevents entry of foreign material into the well	Free of kinks/bends, or any obstructions from foreign objects (such as bailers)	Properly vented for equilibration of air pressure
PZ-42S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-43	Yes	Yes	Yes	Yes	Yes	Yes
PZ-46	Yes	Yes	Yes	Yes	Yes	Yes
PZ-48	Yes	Yes	Yes	Yes	Yes	Yes
PZ-49	Yes	Yes	Yes	Yes	Yes	Yes
PZ-54	Yes	Yes	Yes	Yes	Yes	Yes
PZ-55	Yes	Yes	Yes	Yes	Yes	Yes
PZ-56	Yes	Yes	Yes	Yes	Yes	Yes
PZ-67	Yes	Yes	Yes	Yes	Yes	Yes
PZ-69I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-71I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-72I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-73I	Yes	Yes	Yes	Yes	Yes	Yes

Well Inspection

Site Name: Plant Branch

Date: 01/29/2024

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

Well ID:	Corrective actions as needed, by date:
PZ-42S	
PZ-43	
PZ-46	
PZ-48	
PZ-49	
PZ-54	
PZ-55	
PZ-56	
PZ-67	
PZ-69I	
PZ-71I	
PZ-72I	
PZ-73I	

APPENDIX B

Laboratory Analytical Results and Field Sampling Forms

Low-Flow Test Report:

Test Date / Time: 8/22/2023 9:47:33 AM
Project: Plant Branch Ash Ponds
Operator Name: Hunter Auld

Location Name: BRGWA-2I **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 54.3 ft** **Total Depth: 64.3 ft** **Initial Depth to Water: 12.07 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 59.5 ft** **Estimated Total Volume Pumped: 2.5 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 100 ml/min** **Final Draw Down: 17.2 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 884189**

Test Notes:
Sampled at 1012. Clear, 80s. Ferrous iron = 0.0 mg/L.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/22/2023 9:47 AM	00:00	7.76 pH	26.70 °C	240.53 µS/cm	7.69 mg/L	5.00 NTU	180.5 mV	12.07 ft	200.00 ml/min
8/22/2023 9:52 AM	05:00	6.87 pH	21.87 °C	146.31 µS/cm	0.67 mg/L	0.70 NTU	63.1 mV	13.10 ft	100.00 ml/min
8/22/2023 9:57 AM	10:00	6.91 pH	21.91 °C	151.72 µS/cm	0.24 mg/L	1.10 NTU	84.6 mV	13.30 ft	100.00 ml/min
8/22/2023 10:02 AM	15:00	6.93 pH	21.80 °C	150.42 µS/cm	0.22 mg/L	0.90 NTU	89.7 mV	13.40 ft	100.00 ml/min
8/22/2023 10:07 AM	20:00	6.95 pH	21.69 °C	148.41 µS/cm	0.19 mg/L	0.80 NTU	84.5 mV	13.50 ft	100.00 ml/min
8/22/2023 10:12 AM	25:00	6.95 pH	21.78 °C	148.81 µS/cm	0.16 mg/L	1.00 NTU	84.3 mV	13.50 ft	100.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 8/22/2023 9:41:09 AM
Project: Plant Branch Ash Ponds
Operator Name: J. Berisford

Location Name: BRGWA-2S **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 34.6 ft** **Total Depth: 44.6 ft** **Initial Depth to Water: 12.33 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 39 ft** **Estimated Total Volume Pumped: 5.6 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 225 ml/min** **Final Draw Down: 2 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 989619**

Test Notes:
Sunny, sample time-1006. Ferrous iron = 0.0 mg/L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/22/2023 9:41 AM	00:00	6.69 pH	29.28 °C	7.33 µS/cm	6.90 mg/L	1.84 NTU	251.6 mV	12.33 ft	225.00 ml/min
8/22/2023 9:46 AM	05:00	6.08 pH	23.51 °C	54.96 µS/cm	3.40 mg/L	1.29 NTU	73.3 mV	12.40 ft	225.00 ml/min
8/22/2023 9:51 AM	10:00	6.02 pH	20.04 °C	50.29 µS/cm	1.85 mg/L	1.13 NTU	47.3 mV	12.50 ft	225.00 ml/min
8/22/2023 9:56 AM	15:00	5.97 pH	19.80 °C	50.35 µS/cm	1.31 mg/L	0.94 NTU	42.0 mV	12.50 ft	225.00 ml/min
8/22/2023 10:01 AM	20:00	5.97 pH	19.75 °C	48.65 µS/cm	1.31 mg/L	0.59 NTU	42.0 mV	12.50 ft	225.00 ml/min
8/22/2023 10:06 AM	25:00	5.96 pH	19.80 °C	48.21 µS/cm	1.21 mg/L	0.64 NTU	41.3 mV	12.50 ft	225.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 8/22/2023 9:40:30 AM
Project: Plant Branch Ash Ponds
Operator Name: A. Schnittker

Location Name: BRGWA-5I **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 53.89 ft** **Total Depth: 63.89 ft** **Initial Depth to Water: 12.88 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 58 ft** **Estimated Total Volume Pumped: 7.5 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 250 ml/min** **Final Draw Down: 3 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 728623**

Test Notes:
Sample time 1010. Sunny 80s. Ferrous Iron = 0.0 mg/L.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/22/2023 9:40 AM	00:00	6.59 pH	22.07 °C	117.61 µS/cm		3.64 NTU	64.4 mV	12.88 ft	250.00 ml/min
8/22/2023 9:45 AM	05:00	6.42 pH	20.07 °C	118.45 µS/cm		2.89 NTU	73.6 mV	13.10 ft	250.00 ml/min
8/22/2023 9:50 AM	10:00	6.36 pH	19.77 °C	118.53 µS/cm		2.25 NTU	103.6 mV	13.10 ft	250.00 ml/min
8/22/2023 9:55 AM	15:00	6.36 pH	20.03 °C	117.55 µS/cm	5.49 mg/L	2.63 NTU	77.5 mV	13.10 ft	250.00 ml/min
8/22/2023 10:00 AM	20:00	6.34 pH	19.77 °C	118.19 µS/cm	5.53 mg/L	3.75 NTU	125.8 mV	13.10 ft	250.00 ml/min
8/22/2023 10:05 AM	25:00	6.24 pH	19.91 °C	117.81 µS/cm	5.54 mg/L	3.81 NTU	123.8 mV	13.10 ft	250.00 ml/min
8/22/2023 10:10 AM	30:00	6.24 pH	19.92 °C	118.66 µS/cm	5.59 mg/L	2.95 NTU	204.5 mV	13.10 ft	250.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/22/2023 9:40:08 AM
Project: Plant Branch Ash Ponds
Operator Name: D. Johnson

Location Name: BRGWA-5S **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 33.06 ft** **Total Depth: 43.06 ft** **Initial Depth to Water: 12.87 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 38.06 ft** **Estimated Total Volume Pumped: 4.375 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 175 ml/min** **Final Draw Down: 3.36 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965678**

Test Notes:
Sample time 1005.
Sunny, 84 degrees F. Ferrous Iron = 0.0 mg/L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/22/2023 9:40 AM	00:00	6.31 pH	26.30 °C	139.76 µS/cm	3.90 mg/L	2.24 NTU	115.0 mV	12.87 ft	175.00 ml/min
8/22/2023 9:45 AM	05:00	6.03 pH	20.27 °C	113.30 µS/cm	2.31 mg/L	2.01 NTU	67.4 mV	13.01 ft	175.00 ml/min
8/22/2023 9:50 AM	10:00	6.07 pH	20.15 °C	116.53 µS/cm	1.94 mg/L	2.26 NTU	56.7 mV	13.12 ft	175.00 ml/min
8/22/2023 9:55 AM	15:00	6.09 pH	19.97 °C	118.14 µS/cm	1.87 mg/L	2.82 NTU	51.9 mV	13.15 ft	175.00 ml/min
8/22/2023 10:00 AM	20:00	6.09 pH	19.99 °C	118.67 µS/cm	1.87 mg/L	2.72 NTU	49.0 mV	13.15 ft	175.00 ml/min
8/22/2023 10:05 AM	25:00	6.08 pH	20.29 °C	118.53 µS/cm	1.90 mg/L	2.70 NTU	47.5 mV	13.15 ft	175.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/22/2023 9:40:34 AM
Project: Plant Branch Ash Ponds
Operator Name: Taylor Goble

Location Name: BRGWA-6S **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 42.86 ft** **Total Depth: 52.86 ft** **Initial Depth to Water: 26.51 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 47 ft** **Estimated Total Volume Pumped: 8050 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 230 ml/min** **Final Draw Down: 0.45 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965658**

Test Notes:
Sampled at 1015. Clear 85 degrees. Ferrous Iron = 0.0 mg/L.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 5	
8/22/2023 9:40 AM	00:00	7.18 pH	24.81 °C	76.58 µS/cm	6.92 mg/L	3.35 NTU	133.2 mV	26.85 ft	230.00 ml/min
8/22/2023 9:45 AM	05:00	6.68 pH	21.85 °C	66.74 µS/cm	7.09 mg/L	2.29 NTU	117.2 mV	26.92 ft	230.00 ml/min
8/22/2023 9:50 AM	10:00	6.41 pH	21.75 °C	65.74 µS/cm	7.06 mg/L	2.03 NTU	114.4 mV	26.96 ft	230.00 ml/min
8/22/2023 9:55 AM	15:00	6.27 pH	21.75 °C	65.26 µS/cm	7.07 mg/L	1.88 NTU	114.4 mV	26.96 ft	230.00 ml/min
8/22/2023 10:00 AM	20:00	6.17 pH	21.68 °C	60.46 µS/cm	7.09 mg/L	1.71 NTU	115.8 mV	26.96 ft	230.00 ml/min
8/22/2023 10:05 AM	25:00	6.16 pH	21.77 °C	64.87 µS/cm	7.28 mg/L	1.63 NTU	115.9 mV	26.96 ft	230.00 ml/min
8/22/2023 10:10 AM	30:00	6.10 pH	21.82 °C	64.86 µS/cm	7.10 mg/L	1.30 NTU	119.4 mV	26.96 ft	230.00 ml/min
8/22/2023 10:15 AM	35:00	6.09 pH	22.10 °C	65.14 µS/cm	7.18 mg/L	1.23 NTU	120.1 mV	26.96 ft	230.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 8/22/2023 11:40:26 AM
Project: Plant Branch Ash Ponds
Operator Name: Hunter Auld

Location Name: BRGWA-23S **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 33.87 ft** **Total Depth: 43.87 ft** **Initial Depth to Water: 38.72 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 39.5 ft** **Estimated Total Volume Pumped: 10.8 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 180 ml/min** **Final Draw Down: 5 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 884189**

Test Notes:
Sampled at 1240. Clear, 90s. Water level below top of pump. Ferrous iron = 0.0 mg/L.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/22/2023 11:40 AM	00:00	7.26 pH	30.61 °C	0.00 µS/cm	7.56 mg/L	5.00 NTU	70.9 mV	38.72 ft	180.00 ml/min
8/22/2023 11:45 AM	05:00	6.28 pH	24.47 °C	93.43 µS/cm	6.03 mg/L	6.10 NTU	95.6 mV	39.00 ft	180.00 ml/min
8/22/2023 11:50 AM	10:00	6.03 pH	24.09 °C	93.17 µS/cm	5.30 mg/L	7.50 NTU	100.1 mV	39.00 ft	180.00 ml/min
8/22/2023 11:55 AM	15:00	5.96 pH	23.66 °C	93.84 µS/cm	5.10 mg/L	7.30 NTU	102.3 mV	39.00 ft	180.00 ml/min
8/22/2023 12:00 PM	20:00	5.86 pH	23.68 °C	82.54 µS/cm	5.02 mg/L	4.20 NTU	108.2 mV	39.00 ft	180.00 ml/min
8/22/2023 12:05 PM	25:00	5.93 pH	23.58 °C	93.16 µS/cm	4.99 mg/L	4.10 NTU	103.7 mV	39.00 ft	180.00 ml/min
8/22/2023 12:10 PM	30:00	5.91 pH	24.15 °C	93.63 µS/cm	5.03 mg/L	4.60 NTU	103.7 mV	39.00 ft	180.00 ml/min
8/22/2023 12:15 PM	35:00	5.91 pH	24.06 °C	93.57 µS/cm	5.04 mg/L	4.40 NTU	104.3 mV	39.00 ft	180.00 ml/min
8/22/2023 12:20 PM	40:00	5.89 pH	24.25 °C	95.56 µS/cm	4.70 mg/L	4.60 NTU	106.4 mV	39.00 ft	180.00 ml/min
8/22/2023 12:25 PM	45:00	5.90 pH	24.30 °C	95.65 µS/cm	4.64 mg/L	5.00 NTU	106.0 mV	39.00 ft	180.00 ml/min
8/22/2023 12:30 PM	50:00	5.90 pH	24.52 °C	95.65 µS/cm	4.96 mg/L	4.90 NTU	105.2 mV	39.00 ft	180.00 ml/min
8/22/2023 12:35 PM	55:00	5.89 pH	24.61 °C	94.67 µS/cm	5.18 mg/L	4.20 NTU	106.7 mV	39.00 ft	180.00 ml/min
8/22/2023 12:40 PM	01:00:00	5.89 pH	25.82 °C	95.40 µS/cm	5.21 mg/L	3.97 NTU	106.1 mV	39.00 ft	180.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 8/24/2023 3:47:33 PM
Project: Plant Branch Ash Ponds
Operator Name: D. Johnson

Location Name: BRGWC-25I **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 10.5 ft** **Total Depth: 20.5 ft** **Initial Depth to Water: 11.12 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 15.5 ft** **Estimated Total Volume Pumped: 18 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 300 ml/min** **Final Draw Down: 2.28 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965678**

Test Notes:
Sample time 1647.
Sunny, 94 degrees F. Ferrous Iron = 0.0 mg/L.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/24/2023 3:47 PM	00:00	6.58 pH	35.09 °C	452.37 µS/cm	5.03 mg/L	2.01 NTU	97.3 mV	11.12 ft	300.00 ml/min
8/24/2023 3:52 PM	05:00	6.26 pH	21.55 °C	470.93 µS/cm	1.15 mg/L	1.38 NTU	106.5 mV	11.14 ft	300.00 ml/min
8/24/2023 3:57 PM	10:00	6.23 pH	22.07 °C	466.11 µS/cm	0.74 mg/L	1.37 NTU	108.7 mV	11.18 ft	300.00 ml/min
8/24/2023 4:02 PM	15:00	6.22 pH	20.46 °C	475.96 µS/cm	0.16 mg/L	1.27 NTU	109.5 mV	11.24 ft	300.00 ml/min
8/24/2023 4:07 PM	20:00	6.21 pH	20.34 °C	478.12 µS/cm	0.15 mg/L	1.14 NTU	110.3 mV	11.29 ft	300.00 ml/min
8/24/2023 4:12 PM	25:00	6.19 pH	20.25 °C	479.92 µS/cm	0.14 mg/L	0.97 NTU	110.8 mV	11.29 ft	300.00 ml/min
8/24/2023 4:17 PM	30:00	6.18 pH	20.14 °C	479.36 µS/cm	0.13 mg/L	1.09 NTU	111.1 mV	11.30 ft	300.00 ml/min
8/24/2023 4:22 PM	35:00	6.17 pH	20.09 °C	480.02 µS/cm	0.13 mg/L	0.64 NTU	111.9 mV	11.31 ft	300.00 ml/min
8/24/2023 4:27 PM	40:00	6.16 pH	20.17 °C	480.74 µS/cm	0.13 mg/L	0.61 NTU	112.1 mV	11.31 ft	300.00 ml/min
8/24/2023 4:32 PM	45:00	6.16 pH	20.17 °C	480.41 µS/cm	0.13 mg/L	0.59 NTU	112.6 mV	11.31 ft	300.00 ml/min
8/24/2023 4:37 PM	50:00	6.15 pH	20.12 °C	479.89 µS/cm	0.12 mg/L	0.58 NTU	112.9 mV	11.31 ft	300.00 ml/min
8/24/2023 4:42 PM	55:00	6.15 pH	20.04 °C	480.29 µS/cm	0.12 mg/L	0.60 NTU	113.3 mV	11.31 ft	300.00 ml/min
8/24/2023 4:47 PM	01:00:00	6.14 pH	20.06 °C	480.61 µS/cm	0.13 mg/L	0.59 NTU	113.7 mV	11.31 ft	300.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 8/24/2023 11:55:17 AM
Project: Plant Branch Ash Ponds
Operator Name: J. Berisford

Location Name: BRGWC-27I **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 14 ft** **Total Depth: 24 ft** **Initial Depth to Water: 11.12 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 21 ft** **Estimated Total Volume Pumped: 6 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 1 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 989619**

Test Notes:
Sunny, sample time- 1225, fe2+=0.0 mg/L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/24/2023 11:55 AM	00:00	6.04 pH	43.62 °C	0.07 µS/cm	6.14 mg/L	7.31 NTU	97.2 mV	11.12 ft	200.00 ml/min
8/24/2023 12:00 PM	05:00	5.77 pH	25.48 °C	255.57 µS/cm	2.13 mg/L	6.94 NTU	55.7 mV	11.20 ft	200.00 ml/min
8/24/2023 12:05 PM	10:00	5.90 pH	23.18 °C	272.27 µS/cm	1.34 mg/L	3.58 NTU	69.2 mV	11.20 ft	200.00 ml/min
8/24/2023 12:10 PM	15:00	5.93 pH	22.29 °C	278.71 µS/cm	0.54 mg/L	0.43 NTU	74.3 mV	11.20 ft	200.00 ml/min
8/24/2023 12:15 PM	20:00	5.97 pH	21.90 °C	282.49 µS/cm	0.27 mg/L	0.51 NTU	75.8 mV	11.20 ft	200.00 ml/min
8/24/2023 12:20 PM	25:00	6.00 pH	21.67 °C	284.07 µS/cm	0.21 mg/L	0.49 NTU	72.5 mV	11.20 ft	200.00 ml/min
8/24/2023 12:25 PM	30:00	6.01 pH	21.65 °C	285.51 µS/cm	0.20 mg/L	0.46 NTU	72.5 mV	11.20 ft	200.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/24/2023 2:20:08 PM
Project: Plant Branch Ash Ponds
Operator Name: J. Berisford

Location Name: BRGWC-29I **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 10 ft** **Total Depth: 20 ft** **Initial Depth to Water: 10.8 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 15 ft** **Estimated Total Volume Pumped: 18 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 300 ml/min** **Final Draw Down: 1 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 989619**

Test Notes:
Sunny, sample time -1520 fe2+= 6.5mg/L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/24/2023 2:20 PM	00:00	3.47 pH	36.59 °C	351.03 µS/cm	5.30 mg/L	0.52 NTU	104.0 mV	10.80 ft	300.00 ml/min
8/24/2023 2:25 PM	05:00	3.81 pH	25.94 °C	366.12 µS/cm	2.47 mg/L	0.98 NTU	119.9 mV	10.90 ft	300.00 ml/min
8/24/2023 2:30 PM	10:00	3.87 pH	28.90 °C	377.37 µS/cm	2.23 mg/L	1.40 NTU	126.8 mV	10.90 ft	300.00 ml/min
8/24/2023 2:35 PM	15:00	4.32 pH	23.52 °C	361.70 µS/cm	0.37 mg/L	0.82 NTU	127.8 mV	10.90 ft	300.00 ml/min
8/24/2023 2:40 PM	20:00	4.41 pH	23.04 °C	364.04 µS/cm	0.21 mg/L	0.77 NTU	122.6 mV	10.90 ft	300.00 ml/min
8/24/2023 2:45 PM	25:00	4.44 pH	22.93 °C	363.63 µS/cm	0.18 mg/L	0.56 NTU	119.4 mV	10.90 ft	300.00 ml/min
8/24/2023 2:50 PM	30:00	4.45 pH	23.06 °C	364.08 µS/cm	0.16 mg/L	0.63 NTU	117.2 mV	10.90 ft	300.00 ml/min
8/24/2023 2:55 PM	35:00	4.46 pH	23.30 °C	363.65 µS/cm	0.15 mg/L	0.64 NTU	115.6 mV	10.90 ft	300.00 ml/min
8/24/2023 3:00 PM	40:00	4.47 pH	23.51 °C	362.47 µS/cm	0.14 mg/L	0.50 NTU	108.3 mV	10.90 ft	300.00 ml/min
8/24/2023 3:05 PM	45:00	4.47 pH	23.65 °C	362.37 µS/cm	0.14 mg/L	0.52 NTU	112.8 mV	10.90 ft	300.00 ml/min
8/24/2023 3:10 PM	50:00	4.47 pH	23.64 °C	363.04 µS/cm	0.14 mg/L	0.38 NTU	106.9 mV	10.90 ft	300.00 ml/min
8/24/2023 3:15 PM	55:00	4.48 pH	23.96 °C	365.65 µS/cm	0.13 mg/L	0.47 NTU	111.7 mV	10.90 ft	300.00 ml/min
8/24/2023 3:20 PM	01:00:00	4.48 pH	23.85 °C	357.61 µS/cm	0.12 mg/L	0.43 NTU	106.6 mV	10.90 ft	300.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 8/22/2023 1:57:13 PM
Project: Plant Branch Ash Ponds
Operator Name: Hunter Auld

Location Name: BRGWC-30I **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 10.3 ft** **Total Depth: 20.3 ft** **Initial Depth to Water: 4.88 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 15 ft** **Estimated Total Volume Pumped: 24.2 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 300 ml/min** **Final Draw Down: 2.4 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 884189**

Test Notes:
Sampled at 1522. Partly cloudy, 90s. Ferrous iron = 0.5 mg/L.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/22/2023 1:57 PM	00:00	6.32 pH	34.43 °C	1,650.9 µS/cm	4.79 mg/L	500.00 NTU	104.0 mV	4.88 ft	200.00 ml/min
8/22/2023 2:02 PM	05:00	6.41 pH	26.39 °C	1,784.9 µS/cm	2.30 mg/L	460.00 NTU	78.7 mV	4.90 ft	200.00 ml/min
8/22/2023 2:07 PM	10:00	6.43 pH	23.58 °C	1,968.3 µS/cm	0.23 mg/L	130.00 NTU	79.4 mV	4.90 ft	200.00 ml/min
8/22/2023 2:12 PM	15:00	6.45 pH	23.11 °C	2,011.7 µS/cm	0.11 mg/L	66.90 NTU	79.6 mV	4.90 ft	300.00 ml/min
8/22/2023 2:17 PM	20:00	6.46 pH	22.70 °C	2,009.4 µS/cm	0.09 mg/L	40.70 NTU	79.3 mV	5.00 ft	300.00 ml/min
8/22/2023 2:22 PM	25:00	6.45 pH	22.78 °C	2,010.4 µS/cm	0.09 mg/L	29.70 NTU	79.2 mV	5.00 ft	300.00 ml/min
8/22/2023 2:27 PM	30:00	6.45 pH	22.81 °C	2,012.5 µS/cm	0.08 mg/L	19.50 NTU	78.7 mV	5.00 ft	300.00 ml/min
8/22/2023 2:32 PM	35:00	6.45 pH	22.72 °C	2,008.4 µS/cm	0.07 mg/L	18.40 NTU	78.3 mV	5.00 ft	300.00 ml/min
8/22/2023 2:37 PM	40:00	6.45 pH	22.62 °C	2,009.7 µS/cm	0.07 mg/L	15.00 NTU	78.1 mV	5.00 ft	300.00 ml/min
8/22/2023 2:42 PM	45:00	6.44 pH	22.87 °C	2,011.8 µS/cm	0.07 mg/L	12.30 NTU	77.5 mV	5.00 ft	300.00 ml/min
8/22/2023 2:47 PM	50:00	6.44 pH	22.67 °C	2,013.8 µS/cm	0.07 mg/L	9.20 NTU	78.7 mV	5.00 ft	300.00 ml/min
8/22/2023 2:52 PM	55:00	6.44 pH	22.80 °C	2,004.0 µS/cm	0.06 mg/L	9.20 NTU	77.4 mV	5.00 ft	300.00 ml/min
8/22/2023 2:57 PM	01:00:00	6.44 pH	22.63 °C	2,002.0 µS/cm	0.07 mg/L	7.40 NTU	77.0 mV	5.00 ft	300.00 ml/min
8/22/2023 3:02 PM	01:05:00	6.44 pH	22.47 °C	1,999.9 µS/cm	0.07 mg/L	6.10 NTU	77.0 mV	5.00 ft	300.00 ml/min

8/22/2023 3:07 PM	01:10:00	6.44 pH	22.63 °C	2,010.7 µS/cm	0.07 mg/L	6.10 NTU	76.7 mV	5.00 ft	300.00 ml/min
8/22/2023 3:12 PM	01:15:00	6.44 pH	22.54 °C	2,006.9 µS/cm	0.07 mg/L	5.70 NTU	76.4 mV	5.00 ft	300.00 ml/min
8/22/2023 3:17 PM	01:20:00	6.44 pH	22.81 °C	2,008.3 µS/cm	0.07 mg/L	5.50 NTU	76.5 mV	5.00 ft	300.00 ml/min
8/22/2023 3:22 PM	01:25:00	6.44 pH	22.56 °C	2,008.2 µS/cm	0.07 mg/L	4.80 NTU	76.2 mV	5.00 ft	300.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/22/2023 12:55:22 PM
Project: Plant Branch Ash Ponds
Operator Name: J. Berisford

Location Name: BRGWC-32S **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 38.35 ft** **Total Depth: 48.35 ft** **Initial Depth to Water: 40.5 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 43 ft** **Estimated Total Volume Pumped: 14.87 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 175 ml/min** **Final Draw Down: 0 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 989619**

Test Notes:
Sunny, sample time -1420, WL below top of pump. Ferrous Iron = 0.0 mg/L.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/22/2023 12:55 PM	00:00	7.83 pH	37.48 °C	0.75 µS/cm	5.77 mg/L	38.00 NTU	57.5 mV	40.50 ft	175.00 ml/min
8/22/2023 1:00 PM	05:00	6.02 pH	25.13 °C	326.93 µS/cm	3.93 mg/L	20.00 NTU	62.7 mV		175.00 ml/min
8/22/2023 1:05 PM	10:00	5.97 pH	24.14 °C	343.94 µS/cm	2.85 mg/L	13.00 NTU	70.1 mV		175.00 ml/min
8/22/2023 1:10 PM	15:00	5.94 pH	24.18 °C	347.46 µS/cm	2.68 mg/L	8.24 NTU	71.2 mV		175.00 ml/min
8/22/2023 1:15 PM	20:00	5.96 pH	24.30 °C	349.32 µS/cm	2.63 mg/L	6.11 NTU	72.1 mV		175.00 ml/min
8/22/2023 1:20 PM	25:00	5.96 pH	24.22 °C	350.15 µS/cm	2.61 mg/L	5.38 NTU	71.8 mV		175.00 ml/min
8/22/2023 1:25 PM	30:00	5.96 pH	23.96 °C	351.97 µS/cm	2.54 mg/L	4.98 NTU	73.9 mV		175.00 ml/min
8/22/2023 1:30 PM	35:00	5.97 pH	24.00 °C	353.21 µS/cm	2.54 mg/L	5.10 NTU	74.1 mV		175.00 ml/min
8/22/2023 1:35 PM	40:00	5.97 pH	24.18 °C	351.29 µS/cm	2.54 mg/L	4.71 NTU	74.6 mV		175.00 ml/min
8/22/2023 1:40 PM	45:00	5.97 pH	23.96 °C	350.87 µS/cm	2.54 mg/L	4.48 NTU	75.2 mV		175.00 ml/min
8/22/2023 1:45 PM	50:00	5.98 pH	23.50 °C	351.08 µS/cm	2.52 mg/L	3.14 NTU	76.4 mV		175.00 ml/min
8/22/2023 1:50 PM	55:00	5.97 pH	23.70 °C	351.34 µS/cm	2.63 mg/L	2.79 NTU	75.0 mV		175.00 ml/min
8/22/2023 1:55 PM	01:00:00	5.98 pH	23.95 °C	352.02 µS/cm	2.62 mg/L	2.55 NTU	76.5 mV		175.00 ml/min
8/22/2023 2:00 PM	01:05:00	5.98 pH	23.82 °C	354.13 µS/cm	2.69 mg/L	2.58 NTU	77.0 mV		175.00 ml/min

8/22/2023 2:05 PM	01:10:00	5.98 pH	23.84 °C	351.65 µS/cm	2.69 mg/L	1.85 NTU	77.6 mV		175.00 ml/min
8/22/2023 2:10 PM	01:15:00	5.98 pH	24.05 °C	353.12 µS/cm	2.83 mg/L	2.05 NTU	77.5 mV		175.00 ml/min
8/22/2023 2:15 PM	01:20:00	5.99 pH	23.87 °C	353.23 µS/cm	2.93 mg/L	2.58 NTU	78.1 mV		175.00 ml/min
8/22/2023 2:20 PM	01:25:00	5.98 pH	23.62 °C	354.13 µS/cm	2.91 mg/L	1.78 NTU	78.9 mV		175.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/24/2023 10:41:32 AM
Project: Plant Branch Ash Ponds
Operator Name: D. Johnson

Location Name: BRGWC-45 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 47 ft** **Total Depth: 57 ft** **Initial Depth to Water: 15.3 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 52 ft** **Estimated Total Volume Pumped: 21.25 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 250 ml/min** **Final Draw Down: 7.68 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965678**

Test Notes:
Sample time 1206.
Sunny, 86 degrees F. Ferrous Iron = 0.0 mg/L.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/24/2023 10:41 AM	00:00	6.36 pH	32.11 °C	396.81 µS/cm	6.28 mg/L	2.09 NTU	149.3 mV	15.30 ft	250.00 ml/min
8/24/2023 10:46 AM	05:00	5.73 pH	22.45 °C	323.45 µS/cm	1.67 mg/L	1.94 NTU	94.8 mV	15.82 ft	250.00 ml/min
8/24/2023 10:51 AM	10:00	5.71 pH	22.32 °C	325.21 µS/cm	0.99 mg/L	1.82 NTU	90.9 mV	15.91 ft	250.00 ml/min
8/24/2023 10:56 AM	15:00	5.72 pH	22.18 °C	325.35 µS/cm	0.91 mg/L	1.90 NTU	89.5 mV	15.91 ft	250.00 ml/min
8/24/2023 11:01 AM	20:00	5.73 pH	22.12 °C	271.86 µS/cm	0.88 mg/L	2.51 NTU	88.4 mV	15.91 ft	250.00 ml/min
8/24/2023 11:06 AM	25:00	5.73 pH	22.42 °C	327.70 µS/cm	0.90 mg/L	2.92 NTU	87.9 mV	15.91 ft	250.00 ml/min
8/24/2023 11:11 AM	30:00	5.72 pH	22.48 °C	323.58 µS/cm	0.95 mg/L	2.68 NTU	88.0 mV	15.93 ft	250.00 ml/min
8/24/2023 11:16 AM	35:00	5.71 pH	22.42 °C	326.86 µS/cm	0.94 mg/L	3.20 NTU	87.8 mV	15.93 ft	250.00 ml/min
8/24/2023 11:21 AM	40:00	5.71 pH	22.20 °C	321.22 µS/cm	0.87 mg/L	2.94 NTU	87.4 mV	15.93 ft	250.00 ml/min
8/24/2023 11:26 AM	45:00	5.71 pH	22.10 °C	180.75 µS/cm	0.92 mg/L	3.20 NTU	87.9 mV	15.94 ft	250.00 ml/min
8/24/2023 11:31 AM	50:00	5.70 pH	22.19 °C	326.80 µS/cm	0.86 mg/L	3.54 NTU	87.8 mV	15.94 ft	250.00 ml/min
8/24/2023 11:36 AM	55:00	5.70 pH	22.12 °C	325.78 µS/cm	0.88 mg/L	3.48 NTU	87.9 mV	15.94 ft	250.00 ml/min
8/24/2023 11:41 AM	01:00:00	5.70 pH	22.13 °C	325.47 µS/cm	0.77 mg/L	3.44 NTU	87.9 mV	15.94 ft	250.00 ml/min
8/24/2023 11:46 AM	01:05:00	5.69 pH	22.10 °C	326.16 µS/cm	0.76 mg/L	3.43 NTU	88.1 mV	15.94 ft	250.00 ml/min

8/24/2023 11:51 AM	01:10:00	5.69 pH	22.24 °C	325.16 µS/cm	0.95 mg/L	3.44 NTU	88.1 mV	15.94 ft	250.00 ml/min
8/24/2023 11:56 AM	01:15:00	5.69 pH	22.10 °C	325.56 µS/cm	0.77 mg/L	3.44 NTU	88.6 mV	15.94 ft	250.00 ml/min
8/24/2023 12:01 PM	01:20:00	5.70 pH	22.11 °C	325.54 µS/cm	0.74 mg/L	3.43 NTU	88.1 mV	15.94 ft	250.00 ml/min
8/24/2023 12:06 PM	01:25:00	5.71 pH	22.11 °C	324.97 µS/cm	0.77 mg/L	3.43 NTU	88.2 mV	15.94 ft	250.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/24/2023 2:10:13 PM
Project: Plant Branch Ash Ponds
Operator Name: A. Schnittker

Location Name: BRGWC-47 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 82 ft** **Total Depth: 92 ft** **Initial Depth to Water: 27.47 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 87 ft** **Estimated Total Volume Pumped: 8.8 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 250 ml/min** **Final Draw Down: 11 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 728623**

Test Notes:
Sample time 1445. Sunny 90s. EB-03 here at 1400. Ferrous Iron 0.0 mg/L.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/24/2023 2:10 PM	00:00	6.25 pH	36.43 °C	1,289.2 µS/cm	6.28 mg/L	0.71 NTU	60.8 mV	27.47 ft	250.00 ml/min
8/24/2023 2:15 PM	05:00	5.78 pH	24.24 °C	1,367.8 µS/cm	1.56 mg/L	1.58 NTU	91.8 mV	28.20 ft	250.00 ml/min
8/24/2023 2:20 PM	10:00	5.73 pH	23.30 °C	1,383.7 µS/cm	1.31 mg/L	1.73 NTU	149.0 mV	28.20 ft	250.00 ml/min
8/24/2023 2:25 PM	15:00	5.71 pH	23.33 °C	1,383.4 µS/cm	1.24 mg/L	1.33 NTU	166.0 mV	28.20 ft	250.00 ml/min
8/24/2023 2:30 PM	20:00	5.71 pH	23.22 °C	1,385.6 µS/cm	1.13 mg/L	0.98 NTU	175.5 mV	28.30 ft	250.00 ml/min
8/24/2023 2:35 PM	25:00	5.70 pH	23.30 °C	1,388.4 µS/cm	1.30 mg/L	0.83 NTU	176.5 mV	28.30 ft	250.00 ml/min
8/24/2023 2:40 PM	30:00	5.69 pH	23.16 °C	1,388.8 µS/cm	1.32 mg/L	0.89 NTU	166.9 mV	28.30 ft	250.00 ml/min
8/24/2023 2:45 PM	35:00	5.69 pH	23.12 °C	1,393.9 µS/cm	1.21 mg/L	0.84 NTU	132.5 mV	28.40 ft	250.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 8/23/2023 10:00:08 AM
Project: Plant Branch Ash Ponds
Operator Name: A. Schnittker

Location Name: BRGWC-50 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 55 ft** **Total Depth: 65 ft** **Initial Depth to Water: 38.17 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 60 ft** **Estimated Total Volume Pumped: 15 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 250 ml/min** **Final Draw Down: 14 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 728623**

Test Notes:
Sample time 1100. Sunny 80s. FD-01 here. Ferrous Iron = 0.0 mg/L.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/23/2023 10:00 AM	00:00	5.27 pH	23.80 °C	1,415.6 µS/cm	1.46 mg/L	2.58 NTU	165.3 mV	38.17 ft	250.00 ml/min
8/23/2023 10:05 AM	05:00	5.16 pH	22.18 °C	1,449.7 µS/cm	0.95 mg/L	2.63 NTU	198.9 mV	39.30 ft	250.00 ml/min
8/23/2023 10:10 AM	10:00	5.15 pH	22.17 °C	1,451.0 µS/cm	0.64 mg/L	2.12 NTU	146.2 mV	39.30 ft	250.00 ml/min
8/23/2023 10:15 AM	15:00	5.14 pH	22.04 °C	1,446.3 µS/cm	0.50 mg/L	1.66 NTU	183.6 mV	39.30 ft	250.00 ml/min
8/23/2023 10:20 AM	20:00	5.15 pH	21.84 °C	1,449.0 µS/cm	0.43 mg/L	1.53 NTU	141.1 mV	39.30 ft	250.00 ml/min
8/23/2023 10:25 AM	25:00	5.13 pH	21.64 °C	1,450.8 µS/cm	0.36 mg/L	1.15 NTU	139.0 mV	39.30 ft	250.00 ml/min
8/23/2023 10:30 AM	30:00	5.14 pH	21.48 °C	1,454.3 µS/cm	0.33 mg/L	0.80 NTU	138.2 mV	39.30 ft	250.00 ml/min
8/23/2023 10:35 AM	35:00	5.14 pH	21.65 °C	1,447.6 µS/cm	0.30 mg/L	0.94 NTU	134.9 mV	39.30 ft	250.00 ml/min
8/23/2023 10:40 AM	40:00	5.14 pH	21.83 °C	1,451.9 µS/cm	0.29 mg/L	0.86 NTU	133.6 mV	39.30 ft	250.00 ml/min
8/23/2023 10:45 AM	45:00	5.13 pH	21.65 °C	1,456.0 µS/cm	0.28 mg/L	0.68 NTU	132.9 mV	39.30 ft	250.00 ml/min
8/23/2023 10:50 AM	50:00	5.12 pH	21.58 °C	1,460.1 µS/cm	0.28 mg/L	0.51 NTU	132.3 mV	39.30 ft	250.00 ml/min
8/23/2023 10:55 AM	55:00	5.12 pH	21.46 °C	1,453.9 µS/cm	0.27 mg/L	0.59 NTU	157.5 mV	39.30 ft	250.00 ml/min
8/23/2023 11:00 AM	01:00:00	5.12 pH	21.76 °C	1,455.1 µS/cm	0.25 mg/L	0.47 NTU	133.8 mV	39.30 ft	250.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 8/24/2023 12:20:16 PM
Project: Plant Branch Ash Ponds
Operator Name: A. Schnittker

Location Name: BRGWC-52I **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 63.9 ft** **Total Depth: 73.9 ft** **Initial Depth to Water: 39.7 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 68 ft** **Estimated Total Volume Pumped: 11.2 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 250 ml/min** **Final Draw Down: 10 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 728623**

Test Notes:
Sample time 1305. Sunny 90s. FB-03 here at 1255. Ferrous Iron = 1.0 mg/L.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/24/2023 12:20 PM	00:00	11.15 pH	21.91 °C	250.80 µS/cm	2.76 mg/L	1.06 NTU	-62.1 mV	39.70 ft	250.00 ml/min
8/24/2023 12:30 PM	09:46	6.86 pH	26.88 °C	257.04 µS/cm	1.57 mg/L	0.93 NTU	-20.7 mV	40.50 ft	250.00 ml/min
8/24/2023 12:35 PM	14:46	6.98 pH	21.31 °C	266.08 µS/cm	0.64 mg/L	0.99 NTU	-62.3 mV	40.50 ft	250.00 ml/min
8/24/2023 12:40 PM	19:46	6.71 pH	20.93 °C	274.91 µS/cm	0.52 mg/L	0.89 NTU	-56.4 mV	40.50 ft	250.00 ml/min
8/24/2023 12:45 PM	24:46	6.48 pH	20.93 °C	281.36 µS/cm	0.43 mg/L	0.83 NTU	-14.8 mV	40.50 ft	250.00 ml/min
8/24/2023 12:50 PM	29:46	6.42 pH	21.00 °C	284.40 µS/cm	0.36 mg/L	0.78 NTU	1.9 mV	40.50 ft	250.00 ml/min
8/24/2023 12:55 PM	34:46	6.34 pH	20.89 °C	284.97 µS/cm	0.33 mg/L	0.53 NTU	11.0 mV	40.50 ft	250.00 ml/min
8/24/2023 1:00 PM	39:46	6.27 pH	21.04 °C	284.92 µS/cm	0.33 mg/L	0.41 NTU	17.5 mV	40.50 ft	250.00 ml/min
8/24/2023 1:05 PM	44:46	6.24 pH	20.98 °C	285.29 µS/cm	0.32 mg/L	0.45 NTU	22.4 mV	40.50 ft	250.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 8/23/2023 4:10:17 PM
Project: Plant Branch Ash Ponds
Operator Name: A. Schnittker

Location Name: PZ-44 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 49.5 ft** **Total Depth: 59.58 ft** **Initial Depth to Water: 26.65 ft**	**Pump Type: Peristaltic Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 54 ft** **Estimated Total Volume Pumped: 7.5 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 250 ml/min** **Final Draw Down: 16 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 728623**

Test Notes:
Sample time 1640. Sunny 90s. Ferrous Iron = 0.0 mg/L.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/23/2023 4:10 PM	00:00	6.18 pH	28.08 °C	179.82 µS/cm	1.40 mg/L	1.57 NTU	79.6 mV	26.65 ft	250.00 ml/min
8/23/2023 4:15 PM	05:00	6.13 pH	24.76 °C	182.87 µS/cm	0.33 mg/L	0.95 NTU	83.5 mV	28.00 ft	250.00 ml/min
8/23/2023 4:20 PM	10:00	6.13 pH	24.04 °C	184.62 µS/cm	0.26 mg/L	0.65 NTU	88.1 mV	28.00 ft	250.00 ml/min
8/23/2023 4:25 PM	15:00	6.13 pH	23.87 °C	186.14 µS/cm	0.24 mg/L	0.52 NTU	94.5 mV	28.00 ft	250.00 ml/min
8/23/2023 4:30 PM	20:00	6.11 pH	23.60 °C	188.84 µS/cm	0.23 mg/L	0.45 NTU	92.5 mV	28.00 ft	250.00 ml/min
8/23/2023 4:35 PM	25:00	6.10 pH	23.47 °C	191.34 µS/cm	0.22 mg/L	0.52 NTU	87.7 mV	28.00 ft	250.00 ml/min
8/23/2023 4:40 PM	30:00	6.11 pH	23.27 °C	190.20 µS/cm	0.20 mg/L	0.48 NTU	87.1 mV	28.00 ft	250.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 8/22/2023 1:15:46 PM
Project: Plant Branch Ash Ponds
Operator Name: A. Schnittker

Location Name: PZ-50D **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 99 ft** **Total Depth: 109 ft** **Initial Depth to Water: 38.47 ft**	**Pump Type: Portable Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 106 ft** **Estimated Total Volume Pumped: 59 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 792 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 728623**

Test Notes:
Sample not collected. Well purged dry.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/22/2023 1:15 PM	00:00	6.06 pH	26.98 °C	1,238.1 µS/cm	1.57 mg/L	4.11 NTU	-17.2 mV	38.47 ft	150.00 ml/min
8/22/2023 1:20 PM	05:00	6.07 pH	25.01 °C	1,292.2 µS/cm	0.73 mg/L	3.54 NTU	-0.9 mV	38.90 ft	200.00 ml/min
8/22/2023 1:25 PM	10:00	6.09 pH	24.53 °C	1,294.8 µS/cm	0.57 mg/L	3.06 NTU	-2.1 mV	39.50 ft	200.00 ml/min
8/22/2023 1:30 PM	15:00	6.11 pH	24.42 °C	1,291.4 µS/cm	0.47 mg/L	2.60 NTU	-1.1 mV	40.10 ft	200.00 ml/min
8/22/2023 1:35 PM	20:00	6.11 pH	24.80 °C	1,290.7 µS/cm	0.41 mg/L	2.95 NTU	-12.5 mV	40.80 ft	200.00 ml/min
8/22/2023 1:40 PM	25:00	6.11 pH	25.05 °C	1,280.0 µS/cm		2.74 NTU	-38.8 mV	41.70 ft	200.00 ml/min
8/22/2023 1:45 PM	30:00	6.13 pH	25.49 °C	1,243.4 µS/cm		3.07 NTU	-48.0 mV	42.80 ft	200.00 ml/min
8/22/2023 1:50 PM	35:00	6.19 pH	26.13 °C	1,234.0 µS/cm	2.06 mg/L	2.72 NTU	-53.7 mV	43.50 ft	200.00 ml/min
8/22/2023 1:55 PM	40:00	6.14 pH	25.61 °C	1,232.7 µS/cm	0.32 mg/L	3.09 NTU	-66.9 mV	44.30 ft	200.00 ml/min
8/22/2023 2:00 PM	45:00	6.13 pH	26.48 °C	1,235.2 µS/cm	0.31 mg/L	3.16 NTU	-72.6 mV	44.90 ft	200.00 ml/min
8/22/2023 2:05 PM	50:00	6.14 pH	25.25 °C	1,240.5 µS/cm	0.29 mg/L	2.35 NTU	-72.3 mV	45.70 ft	200.00 ml/min
8/22/2023 2:10 PM	55:00	6.16 pH	25.17 °C	1,212.6 µS/cm	0.30 mg/L	2.46 NTU	-95.3 mV	46.80 ft	200.00 ml/min
8/22/2023 2:15 PM	01:00:00	6.16 pH	24.27 °C	1,215.4 µS/cm	0.28 mg/L	2.40 NTU	-71.0 mV	48.10 ft	200.00 ml/min
8/22/2023 2:20 PM	01:05:00	6.16 pH	24.20 °C	1,210.6 µS/cm	0.30 mg/L	2.39 NTU	-72.2 mV	49.70 ft	200.00 ml/min
8/22/2023 2:25 PM	01:10:00	6.16 pH	23.98 °C	1,217.8 µS/cm	0.31 mg/L	2.74 NTU	-102.0 mV	50.50 ft	200.00 ml/min

8/22/2023 2:30 PM	01:15:00	6.17 pH	23.47 °C	1,223.3 µS/cm	0.26 mg/L	2.65 NTU	-74.7 mV	51.10 ft	200.00 ml/min
8/22/2023 2:35 PM	01:20:00	6.17 pH	23.44 °C	1,224.7 µS/cm	0.28 mg/L	3.00 NTU	-105.6 mV	52.60 ft	200.00 ml/min
8/22/2023 2:40 PM	01:25:00	6.17 pH	23.38 °C	1,228.9 µS/cm	0.23 mg/L	2.56 NTU	-107.8 mV	53.80 ft	200.00 ml/min
8/22/2023 2:45 PM	01:30:00	6.17 pH	23.45 °C	1,224.0 µS/cm	0.24 mg/L	2.63 NTU	-109.6 mV	54.60 ft	200.00 ml/min
8/22/2023 2:50 PM	01:35:00	6.16 pH	23.66 °C	1,222.5 µS/cm	0.25 mg/L	2.64 NTU	-111.7 mV	55.30 ft	200.00 ml/min
8/22/2023 2:55 PM	01:40:00	6.17 pH	23.61 °C	1,232.8 µS/cm	0.21 mg/L	3.09 NTU	-114.2 mV	56.40 ft	200.00 ml/min
8/22/2023 3:00 PM	01:45:00	6.18 pH	23.22 °C	1,225.6 µS/cm	0.20 mg/L	2.93 NTU	-116.3 mV	57.50 ft	200.00 ml/min
8/22/2023 3:05 PM	01:50:00	6.17 pH	23.56 °C	1,227.3 µS/cm	0.21 mg/L	3.85 NTU	-78.3 mV	58.70 ft	200.00 ml/min
8/22/2023 3:10 PM	01:55:00	6.16 pH	23.50 °C	1,229.3 µS/cm	0.21 mg/L	3.15 NTU	-81.0 mV	59.80 ft	200.00 ml/min
8/22/2023 3:15 PM	02:00:00	6.16 pH	23.41 °C	1,227.4 µS/cm	0.20 mg/L	3.02 NTU	-83.0 mV	60.80 ft	200.00 ml/min
8/22/2023 3:20 PM	02:05:00	6.16 pH	23.75 °C	1,224.6 µS/cm	0.21 mg/L	3.05 NTU	-83.8 mV	61.60 ft	200.00 ml/min
8/22/2023 3:25 PM	02:10:00	6.15 pH	23.90 °C	1,243.5 µS/cm	0.22 mg/L	2.96 NTU	-84.1 mV	62.10 ft	200.00 ml/min
8/22/2023 3:30 PM	02:15:00	6.16 pH	24.09 °C	1,227.8 µS/cm	0.22 mg/L	3.00 NTU	-82.4 mV	63.20 ft	200.00 ml/min
8/22/2023 3:35 PM	02:19:37	6.16 pH	24.69 °C	1,218.3 µS/cm	0.23 mg/L	3.16 NTU	-88.9 mV	63.90 ft	200.00 ml/min
8/22/2023 3:40 PM	02:24:37	6.16 pH	24.29 °C	1,218.0 µS/cm	0.23 mg/L	3.86 NTU	-124.3 mV	64.40 ft	200.00 ml/min
8/22/2023 3:45 PM	02:29:37	6.15 pH	24.01 °C	1,224.6 µS/cm	0.21 mg/L	3.21 NTU	-83.6 mV	65.00 ft	200.00 ml/min
8/22/2023 3:50 PM	02:34:37	6.13 pH	24.16 °C	1,238.3 µS/cm	0.26 mg/L	3.46 NTU	-84.8 mV	66.10 ft	200.00 ml/min
8/22/2023 3:55 PM	02:39:37	6.14 pH	24.32 °C	1,223.2 µS/cm	0.21 mg/L	3.28 NTU	-84.3 mV	67.00 ft	200.00 ml/min
8/22/2023 4:00 PM	02:44:37	6.13 pH	24.54 °C	1,233.9 µS/cm	0.21 mg/L	2.95 NTU	-127.9 mV	67.70 ft	200.00 ml/min
8/22/2023 4:05 PM	02:49:37	6.14 pH	24.12 °C	1,223.2 µS/cm	0.19 mg/L	3.06 NTU	-83.7 mV	68.90 ft	200.00 ml/min
8/22/2023 4:10 PM	02:54:37	6.13 pH	24.51 °C	1,234.6 µS/cm	0.20 mg/L	2.96 NTU	-86.2 mV	70.00 ft	200.00 ml/min
8/22/2023 4:15 PM	02:59:37	6.12 pH	24.44 °C	1,226.2 µS/cm	0.19 mg/L	3.63 NTU	-85.0 mV	71.90 ft	200.00 ml/min
8/22/2023 4:20 PM	03:04:37	6.12 pH	24.41 °C	1,235.0 µS/cm	0.20 mg/L	3.01 NTU	-85.4 mV	72.90 ft	200.00 ml/min
8/22/2023 4:25 PM	03:09:37	6.13 pH	24.32 °C	1,225.4 µS/cm	0.20 mg/L	2.97 NTU	-84.1 mV	73.90 ft	200.00 ml/min
8/22/2023 4:30 PM	03:14:37	6.13 pH	23.82 °C	1,225.3 µS/cm	0.21 mg/L	3.33 NTU	-129.0 mV	74.90 ft	200.00 ml/min
8/22/2023 4:35 PM	03:19:37	6.14 pH	23.65 °C	1,218.8 µS/cm	0.18 mg/L	3.07 NTU	-128.8 mV	76.00 ft	200.00 ml/min
8/22/2023 4:40 PM	03:24:37	6.14 pH	23.49 °C	1,229.7 µS/cm	0.17 mg/L	3.28 NTU	-83.8 mV	77.20 ft	200.00 ml/min
8/22/2023 4:45 PM	03:29:37	6.14 pH	23.16 °C	1,223.6 µS/cm	0.19 mg/L	2.96 NTU	-83.8 mV	78.40 ft	200.00 ml/min
8/22/2023 4:50 PM	03:34:37	6.15 pH	23.32 °C	1,220.2 µS/cm	0.19 mg/L	2.88 NTU	-82.8 mV	79.50 ft	200.00 ml/min

8/22/2023 4:55 PM	03:39:37	6.15 pH	23.22 °C	1,220.6 µS/cm	0.18 mg/L	2.94 NTU	-82.9 mV	80.40 ft	200.00 ml/min
8/22/2023 5:00 PM	03:44:37	6.15 pH	23.29 °C	1,221.4 µS/cm	0.19 mg/L	2.48 NTU	-83.0 mV	81.50 ft	200.00 ml/min
8/22/2023 5:05 PM	03:49:37	6.14 pH	23.37 °C	1,226.4 µS/cm	0.19 mg/L	2.38 NTU	-83.0 mV	82.90 ft	200.00 ml/min
8/22/2023 5:10 PM	03:54:37	6.15 pH	23.61 °C	1,221.2 µS/cm	0.19 mg/L	2.95 NTU	-82.3 mV	83.80 ft	200.00 ml/min
8/22/2023 5:15 PM	03:59:37	6.15 pH	23.87 °C	1,221.0 µS/cm	0.19 mg/L	3.01 NTU	-80.3 mV	84.60 ft	200.00 ml/min
8/22/2023 5:20 PM	04:04:37	6.14 pH	23.40 °C	1,219.0 µS/cm	0.18 mg/L	4.95 NTU	-79.5 mV	85.70 ft	200.00 ml/min
8/22/2023 5:25 PM	04:09:37	6.16 pH	23.26 °C	1,219.7 µS/cm	0.18 mg/L	6.78 NTU	-77.1 mV	86.80 ft	200.00 ml/min
8/22/2023 5:30 PM	04:14:37	6.16 pH	23.12 °C	1,218.9 µS/cm	0.20 mg/L	7.95 NTU	-119.5 mV	87.90 ft	200.00 ml/min
8/22/2023 5:35 PM	04:19:37	6.14 pH	23.68 °C	1,231.2 µS/cm	0.21 mg/L	7.48 NTU	-75.6 mV	88.70 ft	200.00 ml/min
8/22/2023 5:40 PM	04:24:37	6.15 pH	23.97 °C	1,223.0 µS/cm	0.24 mg/L	9.58 NTU	-72.7 mV	90.50 ft	200.00 ml/min
8/22/2023 5:45 PM	04:29:37	6.17 pH	23.03 °C	1,216.5 µS/cm	0.25 mg/L	11.30 NTU	-109.4 mV	92.40 ft	200.00 ml/min
8/22/2023 5:50 PM	04:34:37	6.17 pH	23.48 °C	1,214.7 µS/cm	0.28 mg/L	15.30 NTU	-64.3 mV	94.30 ft	200.00 ml/min
8/22/2023 5:55 PM	04:39:37	6.17 pH	23.00 °C	1,213.2 µS/cm	0.34 mg/L	18.40 NTU	-60.1 mV	96.20 ft	200.00 ml/min
8/22/2023 6:00 PM	04:44:37	6.18 pH	22.63 °C	1,213.6 µS/cm	0.50 mg/L	16.90 NTU	-54.3 mV	97.40 ft	200.00 ml/min
8/22/2023 6:05 PM	04:49:37	6.21 pH	22.38 °C	1,247.3 µS/cm	2.68 mg/L	19.40 NTU	-37.3 mV	99.40 ft	200.00 ml/min
8/22/2023 6:10 PM	04:54:37	6.23 pH	22.11 °C	1,216.3 µS/cm	3.05 mg/L	18.90 NTU	-32.2 mV	102.90 ft	200.00 ml/min
8/22/2023 6:15 PM	04:59:37	6.25 pH	22.04 °C	1,217.7 µS/cm	3.35 mg/L	34.00 NTU	-48.7 mV	104.50 ft	200.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 8/23/2023 12:15:03 PM
Project: Plant Branch Ash Ponds
Operator Name: A. Schnittker

Location Name: PZ-50D **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 99 ft** **Total Depth: 109 ft** **Initial Depth to Water: 66.81 ft**	**Pump Type: Portable Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 104 ft** **Estimated Total Volume Pumped: 1.5 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 100 ml/min** **Final Draw Down: 44 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 728623**

Test Notes:
Sample time 1230. Sunny 80s. Ferrous Iron = 4.0 mg/L.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/23/2023 12:15 PM	00:00	6.24 pH	25.13 °C	1,093.0 µS/cm	4.13 mg/L	3.65 NTU	46.6 mV	66.81 ft	100.00 ml/min
8/23/2023 12:20 PM	05:00	6.10 pH	22.94 °C	1,059.9 µS/cm	0.77 mg/L	3.19 NTU	-22.4 mV	68.70 ft	100.00 ml/min
8/23/2023 12:25 PM	10:00	6.10 pH	22.77 °C	1,067.4 µS/cm	0.51 mg/L	3.09 NTU	-49.1 mV	69.70 ft	100.00 ml/min
8/23/2023 12:30 PM	15:00	6.09 pH	23.11 °C	1,069.1 µS/cm	0.56 mg/L	2.26 NTU	-29.3 mV	70.50 ft	100.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/24/2023 10:05:06 AM
Project: Plant Branch Ash Ponds
Operator Name: A. Schnittker

Location Name: PZ-51D **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 96 ft** **Total Depth: 106 ft** **Initial Depth to Water: 40.59 ft**	**Pump Type: Portable Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 101 ft** **Estimated Total Volume Pumped: 5.5 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 100 ml/min** **Final Draw Down: 30 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 728623**

Test Notes:
Sample time 1100. Sunny 80s. Ferrous Iron = 1.5 mg/L.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/24/2023 10:05 AM	00:00	6.75 pH	26.25 °C	626.81 µS/cm	2.72 mg/L	2.16 NTU	-32.9 mV	40.59 ft	100.00 ml/min
8/24/2023 10:10 AM	05:00	6.80 pH	24.94 °C	624.64 µS/cm	2.27 mg/L	3.52 NTU	-55.7 mV	40.90 ft	100.00 ml/min
8/24/2023 10:15 AM	10:00	6.81 pH	24.53 °C	636.54 µS/cm	1.51 mg/L	2.49 NTU	-101.4 mV	41.20 ft	100.00 ml/min
8/24/2023 10:20 AM	15:00	6.85 pH	24.33 °C	635.22 µS/cm	1.20 mg/L	2.14 NTU	-107.8 mV	41.50 ft	100.00 ml/min
8/24/2023 10:25 AM	20:00	6.92 pH	23.66 °C	629.11 µS/cm	1.44 mg/L	2.45 NTU	-114.0 mV	41.90 ft	100.00 ml/min
8/24/2023 10:30 AM	25:00	6.97 pH	22.40 °C	625.86 µS/cm	1.23 mg/L	2.42 NTU	-122.2 mV	42.20 ft	100.00 ml/min
8/24/2023 10:35 AM	30:00	6.98 pH	22.36 °C	625.73 µS/cm	0.78 mg/L	3.33 NTU	-129.3 mV	42.40 ft	100.00 ml/min
8/24/2023 10:40 AM	35:00	7.01 pH	22.34 °C	621.94 µS/cm	0.58 mg/L	3.24 NTU	-91.0 mV	42.90 ft	100.00 ml/min
8/24/2023 10:45 AM	40:00	7.03 pH	22.20 °C	622.82 µS/cm	0.45 mg/L	2.95 NTU	-141.5 mV	43.00 ft	100.00 ml/min
8/24/2023 10:50 AM	45:00	7.05 pH	22.28 °C	620.57 µS/cm	0.41 mg/L	3.47 NTU	-99.0 mV	43.00 ft	100.00 ml/min
8/24/2023 10:55 AM	50:00	7.06 pH	22.28 °C	619.54 µS/cm	0.38 mg/L	2.52 NTU	-97.4 mV	43.10 ft	100.00 ml/min
8/24/2023 11:00 AM	55:00	7.07 pH	22.38 °C	616.74 µS/cm	0.35 mg/L	2.78 NTU	-95.7 mV	43.10 ft	100.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/23/2023 2:10:07 PM
Project: Plant Branch Ash Ponds
Operator Name: A. Schnittker

Location Name: PZ-51I **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 55 ft** **Total Depth: 65 ft** **Initial Depth to Water: 38.36 ft**	**Pump Type: Portable Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 60 ft** **Estimated Total Volume Pumped: 7.5 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: 10 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 728623**

Test Notes:
Sample time 1500. Sunny 90s. FB-02 here at 1450. Ferrous Iron = 0.0 mg/L.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/23/2023 2:10 PM	00:00	6.11 pH	27.83 °C	1,195.6 µS/cm	0.94 mg/L	1.63 NTU	-47.0 mV	38.36 ft	150.00 ml/min
8/23/2023 2:15 PM	05:00	6.03 pH	23.99 °C	1,250.7 µS/cm	0.45 mg/L	1.52 NTU	-61.7 mV	39.20 ft	150.00 ml/min
8/23/2023 2:20 PM	10:00	5.71 pH	23.21 °C	1,300.3 µS/cm	0.33 mg/L	1.30 NTU	-93.0 mV	39.20 ft	150.00 ml/min
8/23/2023 2:25 PM	15:00	5.46 pH	22.95 °C	1,358.9 µS/cm	0.34 mg/L	1.01 NTU	-20.8 mV	39.20 ft	150.00 ml/min
8/23/2023 2:30 PM	20:00	5.39 pH	23.23 °C	1,371.4 µS/cm	0.33 mg/L	1.21 NTU	-7.5 mV	39.20 ft	150.00 ml/min
8/23/2023 2:35 PM	25:00	5.38 pH	23.28 °C	1,371.5 µS/cm	0.27 mg/L	1.26 NTU	-19.8 mV	39.20 ft	150.00 ml/min
8/23/2023 2:40 PM	30:00	5.38 pH	23.36 °C	1,367.7 µS/cm	0.24 mg/L	1.16 NTU	2.1 mV	39.20 ft	150.00 ml/min
8/23/2023 2:45 PM	35:00	5.37 pH	22.91 °C	1,373.5 µS/cm	0.25 mg/L	0.70 NTU	-9.6 mV	39.20 ft	150.00 ml/min
8/23/2023 2:50 PM	40:00	5.38 pH	22.61 °C	1,375.3 µS/cm	0.27 mg/L	0.54 NTU	5.2 mV	39.20 ft	150.00 ml/min
8/23/2023 2:55 PM	45:00	5.37 pH	22.67 °C	1,375.3 µS/cm	0.17 mg/L	0.46 NTU	-6.8 mV	39.20 ft	150.00 ml/min
8/23/2023 3:00 PM	50:00	5.37 pH	22.99 °C	1,368.6 µS/cm	0.16 mg/L	0.44 NTU	7.3 mV	39.20 ft	150.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/21/2023 5:15:08 PM
Project: Plant Branch Ash Ponds
Operator Name: D. Johnson

Location Name: PZ-57I **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 65.9 ft** **Total Depth: 75.9 ft** **Initial Depth to Water: 36.29 ft**	**Pump Type: Portable Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 70.9 ft** **Estimated Total Volume Pumped: 6 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: 4.32 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965678**

Test Notes:
Sample time 1755.
Sunny, 95 degrees F. Ferrous Iron = 1.0 mg/L.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/21/2023 5:15 PM	00:00	6.00 pH	30.62 °C	590.24 µS/cm	5.44 mg/L	4.01 NTU	110.1 mV	36.29 ft	150.00 ml/min
8/21/2023 5:20 PM	05:00	6.01 pH	23.30 °C	666.99 µS/cm	6.49 mg/L	3.65 NTU	66.2 mV	36.32 ft	150.00 ml/min
8/21/2023 5:25 PM	10:00	5.90 pH	22.86 °C	690.05 µS/cm	6.50 mg/L	2.97 NTU	59.5 mV	36.37 ft	150.00 ml/min
8/21/2023 5:30 PM	15:00	5.84 pH	22.75 °C	706.01 µS/cm	6.25 mg/L	2.72 NTU	56.3 mV	36.42 ft	150.00 ml/min
8/21/2023 5:35 PM	20:00	5.80 pH	22.80 °C	712.47 µS/cm	5.97 mg/L	2.71 NTU	53.7 mV	36.50 ft	150.00 ml/min
8/21/2023 5:40 PM	25:00	5.77 pH	22.86 °C	717.19 µS/cm	5.54 mg/L	2.70 NTU	52.6 mV	36.56 ft	150.00 ml/min
8/21/2023 5:45 PM	30:00	5.74 pH	22.85 °C	727.67 µS/cm	5.15 mg/L	2.66 NTU	52.0 mV	36.60 ft	150.00 ml/min
8/21/2023 5:50 PM	35:00	5.71 pH	22.76 °C	733.75 µS/cm	4.99 mg/L	2.56 NTU	51.2 mV	36.65 ft	150.00 ml/min
8/21/2023 5:55 PM	40:00	5.70 pH	22.82 °C	739.19 µS/cm	4.97 mg/L	2.59 NTU	50.7 mV	36.65 ft	150.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 8/23/2023 2:10:07 PM
Project: Plant Branch Ash Ponds
Operator Name: J. Berisford

Location Name: PZ-58I **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 53.9 m** **Total Depth: 63.9 ft** **Initial Depth to Water: 38.42 ft**	**Pump Type: Portable Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 58 ft** **Estimated Total Volume Pumped: 15 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 250 ml/min** **Final Draw Down: 1 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 989619**

Test Notes:
Sunny, sample time-1510, fe2+=7.0mg/L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/23/2023 2:10 PM	00:00	4.73 pH	38.03 °C	1.03 µS/cm	6.47 mg/L	127.00 NTU	240.5 mV	38.42 ft	250.00 ml/min
8/23/2023 2:15 PM	05:00	4.60 pH	25.00 °C	845.39 µS/cm	0.37 mg/L	19.00 NTU	41.5 mV	38.50 ft	250.00 ml/min
8/23/2023 2:20 PM	10:00	4.22 pH	23.85 °C	902.51 µS/cm	0.21 mg/L	14.00 NTU	49.7 mV	38.50 ft	250.00 ml/min
8/23/2023 2:25 PM	15:00	4.06 pH	23.46 °C	929.83 µS/cm	0.16 mg/L	6.52 NTU	59.9 mV	38.50 ft	250.00 ml/min
8/23/2023 2:30 PM	20:00	4.04 pH	23.78 °C	936.61 µS/cm	0.14 mg/L	5.89 NTU	67.3 mV	38.50 ft	250.00 ml/min
8/23/2023 2:35 PM	25:00	4.02 pH	23.76 °C	942.89 µS/cm	0.12 mg/L	3.11 NTU	78.2 mV	38.50 ft	250.00 ml/min
8/23/2023 2:40 PM	30:00	4.02 pH	23.80 °C	948.89 µS/cm	0.11 mg/L	2.74 NTU	91.2 mV	38.50 ft	250.00 ml/min
8/23/2023 2:45 PM	35:00	4.01 pH	23.56 °C	949.53 µS/cm	0.10 mg/L	1.11 NTU	105.6 mV	38.50 ft	250.00 ml/min
8/23/2023 2:50 PM	40:00	4.00 pH	23.51 °C	950.75 µS/cm	0.09 mg/L	0.86 NTU	120.5 mV	38.50 ft	250.00 ml/min
8/23/2023 2:55 PM	45:00	3.99 pH	23.62 °C	958.84 µS/cm	0.08 mg/L	0.83 NTU	131.7 mV	38.50 ft	250.00 ml/min
8/23/2023 3:00 PM	50:00	3.99 pH	23.73 °C	953.37 µS/cm	0.08 mg/L	0.78 NTU	142.7 mV	38.50 ft	250.00 ml/min
8/23/2023 3:05 PM	55:00	3.99 pH	23.82 °C	960.18 µS/cm	0.07 mg/L	0.65 NTU	145.5 mV	38.50 ft	250.00 ml/min
8/23/2023 3:10 PM	01:00:00	3.99 pH	23.83 °C	953.43 µS/cm	0.07 mg/L	0.59 NTU	152.6 mV	38.50 ft	250.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 8/23/2023 10:50:24 AM
Project: Plant Branch Ash Ponds
Operator Name: J. Berisford

Location Name: PZ-59I **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 56 ft** **Total Depth: 66 ft** **Initial Depth to Water: 39.73 ft**	**Pump Type: Portable Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 61 ft** **Estimated Total Volume Pumped: 10 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 6.8 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 989619**

Test Notes:
Sunny, sample time-1140, Fe2+=7.0mg\L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/23/2023 10:50 AM	00:00	3.69 pH	35.92 °C	1,579.4 µS/cm	4.58 mg/L	36.00 NTU	219.0 mV	39.73 ft	200.00 ml/min
8/23/2023 10:55 AM	05:00	3.69 pH	25.10 °C	2,018.8 µS/cm	0.38 mg/L	29.00 NTU	180.8 mV	40.00 ft	200.00 ml/min
8/23/2023 11:00 AM	10:00	3.69 pH	24.35 °C	2,086.5 µS/cm	0.23 mg/L	15.00 NTU	186.3 mV	40.30 ft	200.00 ml/min
8/23/2023 11:05 AM	15:00	3.68 pH	24.27 °C	2,105.0 µS/cm	0.17 mg/L	9.47 NTU	179.1 mV	40.30 ft	200.00 ml/min
8/23/2023 11:10 AM	20:00	3.67 pH	24.22 °C	2,103.4 µS/cm	0.15 mg/L	6.82 NTU	177.3 mV	40.30 ft	200.00 ml/min
8/23/2023 11:15 AM	25:00	3.67 pH	24.36 °C	2,110.5 µS/cm	0.14 mg/L	4.84 NTU	176.4 mV	40.30 ft	200.00 ml/min
8/23/2023 11:20 AM	30:00	3.67 pH	24.45 °C	2,109.5 µS/cm	0.13 mg/L	2.03 NTU	185.8 mV	40.30 ft	200.00 ml/min
8/23/2023 11:25 AM	35:00	3.67 pH	24.61 °C	2,101.1 µS/cm	0.12 mg/L	2.83 NTU	185.1 mV	40.30 ft	200.00 ml/min
8/23/2023 11:30 AM	40:00	3.68 pH	24.68 °C	2,100.6 µS/cm	0.11 mg/L	2.46 NTU	184.1 mV	40.30 ft	200.00 ml/min
8/23/2023 11:35 AM	45:00	3.68 pH	24.52 °C	2,098.6 µS/cm	0.11 mg/L	1.73 NTU	182.8 mV	40.30 ft	200.00 ml/min
8/23/2023 11:40 AM	50:00	3.68 pH	24.34 °C	2,110.6 µS/cm	0.11 mg/L	1.93 NTU	181.5 mV	40.30 ft	200.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/23/2023 12:25:18 PM
Project: Plant Branch Ash Ponds
Operator Name: J. Berisford

Location Name: PZ-60I **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 54.15 ft** **Total Depth: 64.15 ft** **Initial Depth to Water: 38.2 ft**	**Pump Type: Portable Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 59 ft** **Estimated Total Volume Pumped: 15 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 250 ml/min** **Final Draw Down: 3 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 989619**

Test Notes:
Sunny, sample time-1325. Fe2+=1.5mg/L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/23/2023 12:25 PM	00:00	4.76 pH	27.96 °C	1,552.8 µS/cm	0.53 mg/L	16.00 NTU	89.0 mV	38.20 ft	250.00 ml/min
8/23/2023 12:30 PM	05:00	4.63 pH	23.84 °C	1,641.2 µS/cm	0.28 mg/L	5.30 NTU	173.9 mV	38.40 ft	250.00 ml/min
8/23/2023 12:35 PM	10:00	4.60 pH	23.73 °C	1,687.1 µS/cm	0.20 mg/L	5.21 NTU	235.3 mV	38.40 ft	250.00 ml/min
8/23/2023 12:40 PM	15:00	4.62 pH	23.78 °C	1,649.8 µS/cm	0.16 mg/L	3.98 NTU	303.6 mV	38.40 ft	250.00 ml/min
8/23/2023 12:45 PM	20:00	4.62 pH	23.55 °C	1,630.6 µS/cm	0.13 mg/L	3.51 NTU	333.2 mV	38.40 ft	250.00 ml/min
8/23/2023 12:50 PM	25:00	4.61 pH	23.15 °C	1,634.4 µS/cm	0.11 mg/L	3.58 NTU	342.4 mV	38.40 ft	250.00 ml/min
8/23/2023 12:55 PM	30:00	4.61 pH	22.97 °C	1,632.5 µS/cm	0.10 mg/L	3.38 NTU	299.3 mV	38.40 ft	250.00 ml/min
8/23/2023 1:00 PM	35:00	4.60 pH	23.53 °C	1,629.0 µS/cm	0.09 mg/L	3.06 NTU	347.8 mV	38.40 ft	250.00 ml/min
8/23/2023 1:05 PM	40:00	4.60 pH	23.33 °C	1,628.3 µS/cm	0.08 mg/L	2.70 NTU	303.2 mV	38.40 ft	250.00 ml/min
8/23/2023 1:10 PM	45:00	4.59 pH	23.19 °C	1,623.9 µS/cm	0.07 mg/L	2.55 NTU	350.2 mV	38.40 ft	250.00 ml/min
8/23/2023 1:15 PM	50:00	4.59 pH	23.23 °C	1,625.4 µS/cm	0.07 mg/L	2.47 NTU	301.6 mV	38.40 ft	250.00 ml/min
8/23/2023 1:20 PM	55:00	4.59 pH	22.96 °C	1,617.5 µS/cm	0.06 mg/L	2.33 NTU	307.8 mV	38.40 ft	250.00 ml/min
8/23/2023 1:25 PM	01:00:00	4.58 pH	23.10 °C	1,616.8 µS/cm	0.05 mg/L	2.22 NTU	360.4 mV	38.40 ft	250.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 8/22/2023 3:30:06 PM
Project: Plant Branch Ash Ponds
Operator Name: J. Berisford

Location Name: PZ-61I **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 66 ft** **Total Depth: 76 ft** **Initial Depth to Water: 47.97 ft**	**Pump Type: Portable Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 71 ft** **Estimated Total Volume Pumped: 6.7 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: 5 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 989619**

Test Notes:
Sunny, sample time-1615. Ferrous Iron = 0.5 mg/L.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/22/2023 3:30 PM	00:00	7.05 pH	49.25 °C	5.81 µS/cm	4.98 mg/L	23.00 NTU	207.2 mV	47.97 ft	150.00 ml/min
8/22/2023 3:35 PM	05:00	5.26 pH	28.64 °C	1,287.8 µS/cm	0.88 mg/L	6.56 NTU	20.8 mV	48.30 ft	150.00 ml/min
8/22/2023 3:40 PM	10:00	5.20 pH	26.13 °C	1,344.7 µS/cm	0.39 mg/L	5.18 NTU	9.4 mV	48.40 ft	150.00 ml/min
8/22/2023 3:45 PM	15:00	5.18 pH	25.18 °C	1,357.5 µS/cm	0.28 mg/L	3.39 NTU	13.7 mV	48.40 ft	150.00 ml/min
8/22/2023 3:50 PM	20:00	5.17 pH	25.14 °C	1,372.1 µS/cm	0.23 mg/L	3.54 NTU	21.2 mV	48.40 ft	150.00 ml/min
8/22/2023 3:55 PM	25:00	5.17 pH	24.99 °C	1,379.9 µS/cm	0.20 mg/L	3.19 NTU	21.0 mV	48.40 ft	150.00 ml/min
8/22/2023 4:00 PM	30:00	5.17 pH	24.91 °C	1,364.0 µS/cm	0.17 mg/L	2.73 NTU	22.6 mV	48.40 ft	150.00 ml/min
8/22/2023 4:05 PM	35:00	5.17 pH	24.54 °C	1,364.5 µS/cm	0.15 mg/L	2.58 NTU	27.1 mV	48.40 ft	150.00 ml/min
8/22/2023 4:10 PM	40:00	5.16 pH	24.29 °C	1,377.2 µS/cm	0.14 mg/L	2.43 NTU	29.0 mV	48.40 ft	150.00 ml/min
8/22/2023 4:15 PM	45:00	5.16 pH	24.19 °C	1,377.1 µS/cm	0.13 mg/L	1.68 NTU	28.4 mV	48.40 ft	150.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/23/2023 4:00:09 PM
Project: Plant Branch Ash Ponds
Operator Name: J. Berisford

Location Name: PZ-63I **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 46.5 ft** **Total Depth: 56.5 ft** **Initial Depth to Water: 39.46 ft**	**Pump Type: Portable Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 51 ft** **Estimated Total Volume Pumped: 7.5 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 250 ml/min** **Final Draw Down: 10 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 989619**

Test Notes:
Sunny, sample time-1630, Fe2+=1.5 mg/L. Dup-02 here

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/23/2023 4:00 PM	00:00	4.15 pH	39.28 °C	0.39 µS/cm	6.21 mg/L	2.64 NTU	181.1 mV	39.46 ft	250.00 ml/min
8/23/2023 4:05 PM	05:00	5.89 pH	24.28 °C	367.26 µS/cm	0.20 mg/L	1.02 NTU	-35.6 mV	40.20 ft	250.00 ml/min
8/23/2023 4:10 PM	10:00	5.85 pH	22.54 °C	384.90 µS/cm	0.14 mg/L	0.59 NTU	-31.3 mV	40.30 ft	250.00 ml/min
8/23/2023 4:15 PM	15:00	5.76 pH	22.30 °C	388.89 µS/cm	0.11 mg/L	0.49 NTU	-26.9 mV	40.30 ft	250.00 ml/min
8/23/2023 4:20 PM	20:00	5.69 pH	21.98 °C	389.72 µS/cm	0.09 mg/L	0.47 NTU	-23.6 mV	40.30 ft	250.00 ml/min
8/23/2023 4:25 PM	25:00	5.68 pH	21.99 °C	387.37 µS/cm	0.08 mg/L	0.56 NTU	-16.9 mV	40.30 ft	250.00 ml/min
8/23/2023 4:30 PM	30:00	5.68 pH	21.90 °C	387.52 µS/cm	0.07 mg/L	0.40 NTU	-13.7 mV	40.30 ft	250.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 8/23/2023 10:00:15 AM
Project: Plant Branch Ash Ponds
Operator Name: Hunter Auld

Location Name: PZ-64I **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 61.5 ft** **Total Depth: 71.58 ft** **Initial Depth to Water: 38.42 ft**	**Pump Type: Portable Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 66 ft** **Estimated Total Volume Pumped: 5.5 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 75 ml/min** **Final Draw Down: 39.4 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 884189**

Test Notes:
Sampled at 1055. Clear 80s. Ferrous iron = 1.75 mg/L. EB-04 here at 1135.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/23/2023 10:00 AM	00:00	8.62 pH	29.77 °C	1.80 µS/cm	7.50 mg/L	5.00 NTU	86.1 mV	38.42 ft	140.00 ml/min
8/23/2023 10:05 AM	05:00	5.64 pH	24.17 °C	3,200.8 µS/cm	0.72 mg/L	11.30 NTU	27.9 mV	38.80 ft	140.00 ml/min
8/23/2023 10:10 AM	10:00	5.58 pH	23.23 °C	3,224.2 µS/cm	0.36 mg/L	5.20 NTU	2.7 mV	40.10 ft	140.00 ml/min
8/23/2023 10:15 AM	15:00	5.58 pH	23.12 °C	3,217.7 µS/cm	0.28 mg/L	3.90 NTU	4.9 mV	40.70 ft	100.00 ml/min
8/23/2023 10:20 AM	20:00	5.53 pH	23.33 °C	3,209.2 µS/cm	0.26 mg/L	3.10 NTU	3.0 mV	40.80 ft	100.00 ml/min
8/23/2023 10:25 AM	25:00	5.49 pH	23.39 °C	3,208.9 µS/cm	0.23 mg/L	3.20 NTU	3.0 mV	41.10 ft	100.00 ml/min
8/23/2023 10:30 AM	30:00	5.45 pH	23.39 °C	3,212.4 µS/cm	0.21 mg/L	3.10 NTU	-13.9 mV	41.50 ft	100.00 ml/min
8/23/2023 10:35 AM	35:00	5.41 pH	23.40 °C	3,212.8 µS/cm	0.19 mg/L	2.20 NTU	5.4 mV	41.80 ft	100.00 ml/min
8/23/2023 10:40 AM	40:00	5.38 pH	23.82 °C	3,220.2 µS/cm	0.20 mg/L	2.20 NTU	4.7 mV	41.70 ft	75.00 ml/min
8/23/2023 10:45 AM	45:00	5.27 pH	24.30 °C	3,239.3 µS/cm	0.20 mg/L	2.20 NTU	18.9 mV	41.70 ft	75.00 ml/min
8/23/2023 10:50 AM	50:00	5.23 pH	24.36 °C	3,253.4 µS/cm	0.20 mg/L	2.00 NTU	31.1 mV	41.70 ft	75.00 ml/min
8/23/2023 10:55 AM	55:00	5.21 pH	24.52 °C	3,250.8 µS/cm	0.19 mg/L	1.50 NTU	35.1 mV	41.70 ft	75.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/21/2023 4:35:22 PM
Project: Plant Branch Ash Ponds
Operator Name: A. Schnittker

Location Name: PZ-65I **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 62.2 ft** **Total Depth: 72.2 ft** **Initial Depth to Water: 36.08 ft**	**Pump Type: Portable Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 67 ft** **Estimated Total Volume Pumped: 8.8 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 125 ml/min** **Final Draw Down: 23 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 728623**

Test Notes:
Sample time 1745. Sunny 90s. Ferrous Iron = 5.0 mg/L.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/21/2023 4:35 PM	00:00	3.00 pH	38.78 °C	1,979.9 µS/cm	2.51 mg/L	14.50 NTU	392.0 mV	36.08 ft	125.00 ml/min
8/21/2023 4:40 PM	05:00	3.00 pH	33.86 °C	2,025.4 µS/cm	1.35 mg/L	11.60 NTU	388.8 mV	36.70 ft	125.00 ml/min
8/21/2023 4:45 PM	10:00	3.03 pH	27.99 °C	2,064.6 µS/cm	0.52 mg/L	13.10 NTU	385.2 mV	37.20 ft	125.00 ml/min
8/21/2023 4:50 PM	15:00	3.05 pH	26.93 °C	2,072.2 µS/cm	0.34 mg/L	11.20 NTU	382.6 mV	37.40 ft	125.00 ml/min
8/21/2023 4:55 PM	20:00	3.11 pH	27.21 °C	2,048.0 µS/cm	0.31 mg/L	11.30 NTU	375.1 mV	37.60 ft	125.00 ml/min
8/21/2023 5:00 PM	25:00	3.11 pH	27.02 °C	2,050.1 µS/cm	0.27 mg/L	8.46 NTU	376.8 mV	37.80 ft	125.00 ml/min
8/21/2023 5:05 PM	30:00	3.26 pH	26.83 °C	2,016.0 µS/cm	0.24 mg/L	6.93 NTU	360.3 mV	38.00 ft	125.00 ml/min
8/21/2023 5:10 PM	35:00	3.60 pH	27.66 °C	1,984.8 µS/cm	0.25 mg/L	4.91 NTU	326.0 mV	38.00 ft	125.00 ml/min
8/21/2023 5:15 PM	40:00	3.82 pH	29.89 °C	1,951.5 µS/cm	0.30 mg/L	2.99 NTU	297.6 mV	38.00 ft	125.00 ml/min
8/21/2023 5:20 PM	45:00	4.08 pH	29.79 °C	1,911.1 µS/cm	0.30 mg/L	2.44 NTU	262.0 mV	38.00 ft	125.00 ml/min
8/21/2023 5:25 PM	50:00	4.15 pH	28.83 °C	1,909.0 µS/cm	0.25 mg/L	1.96 NTU	245.9 mV	38.00 ft	125.00 ml/min
8/21/2023 5:30 PM	55:00	4.18 pH	28.68 °C	1,914.9 µS/cm	0.22 mg/L	1.83 NTU	232.6 mV	38.00 ft	125.00 ml/min
8/21/2023 5:35 PM	01:00:00	4.20 pH	28.55 °C	1,920.8 µS/cm	0.22 mg/L	2.70 NTU	224.1 mV	38.00 ft	125.00 ml/min
8/21/2023 5:40 PM	01:05:00	4.23 pH	28.19 °C	1,920.7 µS/cm	0.20 mg/L	2.48 NTU	221.5 mV	38.00 ft	125.00 ml/min

8/21/2023 5:45 PM	01:10:00	4.23 pH	27.97 °C	1,925.4 µS/cm	0.20 mg/L	2.45 NTU	211.5 mV	38.00 ft	125.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/23/2023 2:23:45 PM
Project: Plant Branch Ash Ponds
Operator Name: Hunter Auld

Location Name: PZ-68D **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 76.9 ft** **Total Depth: 86.9 ft** **Initial Depth to Water: 40.83 ft**	**Pump Type: Portable Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 81 ft** **Estimated Total Volume Pumped: 10.5 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 80 ml/min** **Final Draw Down: 188 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 884189**

Test Notes:
Sampled at 1605. Partly cloudy 90s. Ferrous iron = 0.5 mg/L.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/23/2023 2:23 PM	00:00	7.05 pH	36.46 °C	782.94 µS/cm	2.98 mg/L	5.00 NTU	-2.5 mV	40.83 ft	100.00 ml/min
8/23/2023 2:28 PM	05:00	7.26 pH	33.22 °C	780.12 µS/cm	2.44 mg/L	2.80 NTU	-46.9 mV	40.60 ft	100.00 ml/min
8/23/2023 2:33 PM	10:00	7.32 pH	28.83 °C	776.26 µS/cm	1.14 mg/L	1.50 NTU	-89.1 mV	40.60 ft	100.00 ml/min
8/23/2023 2:38 PM	15:00	7.33 pH	26.42 °C	771.04 µS/cm	0.57 mg/L	1.70 NTU	-99.3 mV	41.60 ft	100.00 ml/min
8/23/2023 2:43 PM	20:00	7.31 pH	29.51 °C	764.75 µS/cm	0.72 mg/L	1.70 NTU	-103.5 mV	41.60 ft	100.00 ml/min
8/23/2023 2:48 PM	25:00	7.35 pH	26.65 °C	765.79 µS/cm	0.58 mg/L	1.60 NTU	-101.3 mV	42.00 ft	120.00 ml/min
8/23/2023 2:53 PM	30:00	7.37 pH	24.11 °C	759.08 µS/cm	0.34 mg/L	1.50 NTU	-133.7 mV	43.00 ft	120.00 ml/min
8/23/2023 2:58 PM	35:00	7.38 pH	23.89 °C	752.54 µS/cm	0.28 mg/L	1.90 NTU	-103.4 mV	43.90 ft	120.00 ml/min
8/23/2023 3:03 PM	40:00	7.35 pH	25.01 °C	755.07 µS/cm	0.29 mg/L	1.70 NTU	-136.1 mV	44.80 ft	120.00 ml/min
8/23/2023 3:08 PM	45:00	7.37 pH	24.88 °C	748.09 µS/cm	0.25 mg/L	1.70 NTU	-136.2 mV	45.10 ft	120.00 ml/min
8/23/2023 3:13 PM	50:00	7.38 pH	24.02 °C	741.14 µS/cm	0.19 mg/L	1.60 NTU	-101.1 mV	45.90 ft	120.00 ml/min
8/23/2023 3:18 PM	55:00	7.37 pH	24.93 °C	740.44 µS/cm	0.20 mg/L	1.60 NTU	-138.1 mV	46.50 ft	100.00 ml/min
8/23/2023 3:23 PM	01:00:00	7.37 pH	26.17 °C	740.95 µS/cm	0.23 mg/L	1.50 NTU	-103.3 mV	47.50 ft	150.00 ml/min
8/23/2023 3:28 PM	01:05:00	7.40 pH	22.77 °C	736.57 µS/cm	0.14 mg/L	1.60 NTU	-97.9 mV	48.30 ft	150.00 ml/min
8/23/2023 3:33 PM	01:10:00	7.41 pH	22.54 °C	738.42 µS/cm	0.13 mg/L	1.80 NTU	-97.8 mV	50.30 ft	150.00 ml/min

8/23/2023 3:38 PM	01:15:00	7.41 pH	22.54 °C	747.28 µS/cm	0.12 mg/L	1.60 NTU	-97.6 mV	51.00 ft	150.00 ml/min
8/23/2023 3:43 PM	01:20:00	7.42 pH	22.27 °C	738.94 µS/cm	0.14 mg/L	1.50 NTU	-95.8 mV	52.50 ft	240.00 ml/min
8/23/2023 3:48 PM	01:25:00	7.43 pH	21.53 °C	743.65 µS/cm	0.45 mg/L	2.30 NTU	-123.1 mV	54.00 ft	240.00 ml/min
8/23/2023 3:53 PM	01:30:00	7.43 pH	21.35 °C	742.03 µS/cm	0.43 mg/L	2.00 NTU	-119.9 mV	55.60 ft	240.00 ml/min
8/23/2023 3:58 PM	01:35:00	7.40 pH	23.57 °C	747.56 µS/cm	0.49 mg/L	2.40 NTU	-118.5 mV	56.30 ft	80.00 ml/min
8/23/2023 4:03 PM	01:40:00	7.41 pH	23.16 °C	749.22 µS/cm	0.42 mg/L	1.80 NTU	-81.8 mV	56.40 ft	80.00 ml/min
8/23/2023 4:08 PM	01:45:00	7.41 pH	22.54 °C	774.94 µS/cm	0.18 mg/L	1.60 NTU	-136.1 mV	56.50 ft	80.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/24/2023 1:40:04 PM
Project: Plant Branch Ash Ponds
Operator Name: D. Johnson

Location Name: PZ-74I **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 40.94 ft** **Total Depth: 50.94 ft** **Initial Depth to Water: 28.13 ft**	**Pump Type: Peri. Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 45.94 ft** **Estimated Total Volume Pumped: 7 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 3.72 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965678**

Test Notes:
Sample time 1415.
Sunny, 92 degrees F. Ferrous Iron = 1.5 mg/L.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/24/2023 1:40 PM	00:00	5.88 pH	34.68 °C	523.00 µS/cm	1.51 mg/L	9.92 NTU	88.9 mV	28.13 ft	200.00 ml/min
8/24/2023 1:45 PM	05:00	5.89 pH	24.83 °C	586.20 µS/cm	1.13 mg/L	15.00 NTU	90.5 mV	28.21 ft	200.00 ml/min
8/24/2023 1:50 PM	10:00	5.90 pH	24.00 °C	592.41 µS/cm	1.04 mg/L	10.90 NTU	90.6 mV	28.39 ft	200.00 ml/min
8/24/2023 1:55 PM	15:00	5.91 pH	23.54 °C	592.32 µS/cm	1.12 mg/L	10.20 NTU	90.4 mV	28.41 ft	200.00 ml/min
8/24/2023 2:00 PM	20:00	5.90 pH	23.34 °C	596.25 µS/cm	1.24 mg/L	5.34 NTU	90.5 mV	28.43 ft	200.00 ml/min
8/24/2023 2:05 PM	25:00	5.89 pH	23.34 °C	597.37 µS/cm	1.38 mg/L	4.27 NTU	90.8 mV	28.44 ft	200.00 ml/min
8/24/2023 2:10 PM	30:00	5.89 pH	23.25 °C	596.84 µS/cm	1.47 mg/L	2.79 NTU	91.6 mV	28.44 ft	200.00 ml/min
8/24/2023 2:15 PM	35:00	5.89 pH	23.25 °C	595.16 µS/cm	1.45 mg/L	2.24 NTU	92.6 mV	28.44 ft	200.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/24/2023 10:21:49 AM
Project: Plant Branch Ash Ponds
Operator Name: J. Berisford

Location Name: PZ-75I **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 20.55 ft** **Total Depth: 30.55 ft** **Initial Depth to Water: 17.88 ft**	**Pump Type: Peri pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 25 ft** **Estimated Total Volume Pumped: 6 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 3 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 989619**

Test Notes:
Sunny, sample time-1051 Fe2+= 0.5mg/L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/24/2023 10:21 AM	00:00	5.82 pH	24.19 °C	362.85 µS/cm	2.19 mg/L	26.00 NTU	134.7 mV	17.88 ft	200.00 ml/min
8/24/2023 10:26 AM	05:00	5.79 pH	21.63 °C	377.10 µS/cm	1.91 mg/L	17.00 NTU	142.2 mV	18.00 ft	200.00 ml/min
8/24/2023 10:31 AM	10:00	5.76 pH	21.00 °C	369.67 µS/cm	2.06 mg/L	12.00 NTU	133.3 mV	18.00 ft	200.00 ml/min
8/24/2023 10:36 AM	15:00	5.76 pH	21.20 °C	365.97 µS/cm	2.40 mg/L	6.86 NTU	125.7 mV	18.00 ft	200.00 ml/min
8/24/2023 10:41 AM	20:00	5.76 pH	21.18 °C	360.61 µS/cm	2.44 mg/L	6.42 NTU	100.2 mV	18.00 ft	200.00 ml/min
8/24/2023 10:46 AM	25:00	5.77 pH	21.10 °C	364.35 µS/cm	2.38 mg/L	4.69 NTU	109.1 mV	18.00 ft	200.00 ml/min
8/24/2023 10:51 AM	30:00	5.76 pH	21.03 °C	359.27 µS/cm	2.47 mg/L	4.71 NTU	95.6 mV	18.00 ft	200.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/23/2023 9:47:09 AM
Project: Plant Branch Ash Ponds
Operator Name: D. Johnson

Location Name: PZ-76I **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 34.02 ft** **Total Depth: 44.02 ft** **Initial Depth to Water: 19.49 ft**	**Pump Type: Peri. Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 39.02 ft** **Estimated Total Volume Pumped: 10 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 15.36 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965678**

Test Notes:
Sample time 1037.
Sunny, 82 degrees F. Ferrous Iron = 0.0 mg/L.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/23/2023 9:47 AM	00:00	5.80 pH	28.62 °C	345.74 µS/cm	3.74 mg/L	9.65 NTU	139.7 mV	19.49 ft	200.00 ml/min
8/23/2023 9:52 AM	05:00	5.70 pH	22.85 °C	341.39 µS/cm	0.27 mg/L	7.08 NTU	101.6 mV	20.52 ft	200.00 ml/min
8/23/2023 9:57 AM	10:00	5.72 pH	22.98 °C	341.10 µS/cm	0.23 mg/L	6.45 NTU	95.7 mV	20.61 ft	200.00 ml/min
8/23/2023 10:02 AM	15:00	5.72 pH	22.76 °C	337.80 µS/cm	0.20 mg/L	6.44 NTU	92.4 mV	20.69 ft	200.00 ml/min
8/23/2023 10:07 AM	20:00	5.71 pH	22.71 °C	335.94 µS/cm	0.18 mg/L	9.09 NTU	90.6 mV	20.73 ft	200.00 ml/min
8/23/2023 10:12 AM	25:00	5.71 pH	22.71 °C	336.94 µS/cm	0.16 mg/L	6.84 NTU	89.1 mV	20.74 ft	200.00 ml/min
8/23/2023 10:17 AM	30:00	5.71 pH	22.73 °C	336.08 µS/cm	0.15 mg/L	6.14 NTU	88.0 mV	20.76 ft	200.00 ml/min
8/23/2023 10:22 AM	35:00	5.71 pH	22.76 °C	337.54 µS/cm	0.15 mg/L	6.05 NTU	87.1 mV	20.76 ft	200.00 ml/min
8/23/2023 10:27 AM	40:00	5.71 pH	22.71 °C	336.87 µS/cm	0.14 mg/L	4.85 NTU	86.5 mV	20.77 ft	200.00 ml/min
8/23/2023 10:32 AM	45:00	5.70 pH	22.73 °C	336.07 µS/cm	0.14 mg/L	4.46 NTU	86.2 mV	20.77 ft	200.00 ml/min
8/23/2023 10:37 AM	50:00	5.71 pH	22.81 °C	335.90 µS/cm	0.13 mg/L	4.20 NTU	85.7 mV	20.77 ft	200.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/23/2023 9:51:03 AM
Project: Plant Branch Ash Ponds
Operator Name: Taylor Goble

Location Name: PZ-77I **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 33.2 ft** **Total Depth: 43.2 ft** **Initial Depth to Water: 18.71 ft**	**Pump Type: Peristaltic Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 38 ft** **Estimated Total Volume Pumped: 7100 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 1.17 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965658**

Test Notes:
Sampled at 1026. Clear 84 degrees. Ferrous Iron = 0.5 mg/L.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 5	
8/23/2023 9:51 AM	00:00	6.46 pH	25.05 °C	704.30 µS/cm	1.09 mg/L	5.45 NTU	139.3 mV	19.05 ft	200.00 ml/min
8/23/2023 9:51 AM	00:30	6.29 pH	24.51 °C	705.99 µS/cm	0.87 mg/L	5.38 NTU	138.3 mV	19.21 ft	200.00 ml/min
8/23/2023 9:56 AM	05:30	5.53 pH	22.80 °C	715.49 µS/cm	0.30 mg/L	4.97 NTU	135.5 mV	19.48 ft	200.00 ml/min
8/23/2023 10:01 AM	10:30	5.41 pH	22.48 °C	717.25 µS/cm	0.21 mg/L	3.86 NTU	134.8 mV	19.72 ft	200.00 ml/min
8/23/2023 10:06 AM	15:30	5.39 pH	22.36 °C	710.97 µS/cm	0.17 mg/L	3.33 NTU	134.4 mV	19.77 ft	200.00 ml/min
8/23/2023 10:11 AM	20:30	5.39 pH	22.36 °C	706.27 µS/cm	0.16 mg/L	2.78 NTU	133.8 mV	19.83 ft	200.00 ml/min
8/23/2023 10:16 AM	25:30	5.39 pH	22.48 °C	682.56 µS/cm	0.14 mg/L	3.20 NTU	133.8 mV	19.86 ft	200.00 ml/min
8/23/2023 10:21 AM	30:30	5.39 pH	22.49 °C	669.20 µS/cm	0.14 mg/L	3.37 NTU	133.2 mV	19.88 ft	200.00 ml/min
8/23/2023 10:26 AM	35:30	5.39 pH	22.39 °C	673.46 µS/cm	0.13 mg/L	3.21 NTU	133.0 mV	19.88 ft	200.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 8/22/2023 11:36:52 AM
Project: Plant Branch Ash Ponds
Operator Name: J. Berisford

Location Name: PZ-79 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 9.3 ft** **Total Depth: 19.3 ft** **Initial Depth to Water: 13.7 ft**	**Pump Type: Peri pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 19 ft** **Estimated Total Volume Pumped: 6.7 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: 63 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 989619**

Test Notes:
Well purged dry, allow for overnight recharge.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/22/2023 11:36 AM	00:00	6.63 pH	36.80 °C	0.00 µS/cm	6.08 mg/L	9.47 NTU	72.1 mV	13.70 ft	100.00 ml/min
8/22/2023 11:41 AM	05:00	7.12 pH	27.02 °C	884.79 µS/cm	2.29 mg/L	5.91 NTU	122.3 mV	14.70 ft	100.00 ml/min
8/22/2023 11:46 AM	10:00	7.42 pH	22.74 °C	955.53 µS/cm	2.50 mg/L	6.44 NTU	119.8 mV	15.10 ft	100.00 ml/min
8/22/2023 11:51 AM	15:00	7.49 pH	22.34 °C	938.06 µS/cm	2.52 mg/L	7.70 NTU	117.7 mV	15.50 ft	100.00 ml/min
8/22/2023 11:56 AM	20:00	7.53 pH	22.20 °C	935.60 µS/cm	2.47 mg/L	13.00 NTU	117.8 mV	15.90 ft	100.00 ml/min
8/22/2023 12:01 PM	25:00	7.57 pH	22.34 °C	939.45 µS/cm	2.55 mg/L	37.00 NTU	115.7 mV	16.40 ft	100.00 ml/min
8/22/2023 12:06 PM	30:00	7.56 pH	22.10 °C	943.21 µS/cm	2.16 mg/L	55.00 NTU	115.9 mV	16.80 ft	150.00 ml/min
8/22/2023 12:11 PM	35:00	7.48 pH	22.25 °C	939.12 µS/cm	1.57 mg/L	104.00 NTU	99.7 mV	17.30 ft	150.00 ml/min
8/22/2023 12:16 PM	40:00	7.42 pH	22.25 °C	947.31 µS/cm	0.85 mg/L	159.00 NTU	78.0 mV	17.70 ft	150.00 ml/min
8/22/2023 12:21 PM	45:00	7.39 pH	22.25 °C	953.65 µS/cm	0.33 mg/L	232.00 NTU	56.3 mV	18.30 ft	150.00 ml/min
8/22/2023 12:26 PM	50:00	7.41 pH	22.16 °C	962.98 µS/cm	0.97 mg/L	255.00 NTU	34.4 mV	18.70 ft	150.00 ml/min
8/22/2023 12:31 PM	55:00	7.61 pH	25.34 °C	997.90 µS/cm	4.04 mg/L	2.61 NTU	-37.3 mV	19.00 ft	150.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/23/2023 9:50:46 AM
Project: Plant Branch Ash Ponds
Operator Name: J. Berisford

Location Name: PZ-79 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 9.3 ft** **Total Depth: 19.3 ft** **Initial Depth to Water: 13.33 ft**	**Pump Type: Peri pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 19 ft** **Estimated Total Volume Pumped: 2 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 100 ml/min** **Final Draw Down: 1.37 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 989619**

Test Notes:
Allowed overnight recharge. Sunny, sample time-1010. Ferrous Iron = 0.75 mg/L.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/23/2023 9:50 AM	00:00	7.22 pH	37.43 °C	8.61 µS/cm	6.52 mg/L	4.17 NTU	235.2 mV	13.33 ft	100.00 ml/min
8/23/2023 9:55 AM	05:00	7.36 pH	25.79 °C	886.44 µS/cm	4.08 mg/L	1.51 NTU	125.0 mV	13.90 ft	100.00 ml/min
8/23/2023 10:00 AM	10:00	7.50 pH	24.39 °C	900.64 µS/cm	4.04 mg/L	2.45 NTU	125.9 mV	14.10 ft	100.00 ml/min
8/23/2023 10:05 AM	15:00	7.53 pH	24.07 °C	900.95 µS/cm	3.94 mg/L	2.13 NTU	120.0 mV	14.40 ft	100.00 ml/min
8/23/2023 10:10 AM	20:00	7.55 pH	24.02 °C	909.01 µS/cm	3.94 mg/L	2.46 NTU	105.9 mV	14.70 ft	100.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Plant Branch Surface Water Samples 08/23/2023

Sample ID	Total Depth (ft)	Sample Depth (ft)	Time	Temp(°C)	pH	OPR (mV)	DO (mg/L)	Turbidity (NTU)	Conductance (mS/cm)	Coordinates
BRA-LR-1(surface)	25.4	Surface	1100	31.10	7.01	119.2	5.40	4.98	0.087	33.178603, -83.317692
BRA-LR-1(mid)		12.0	1103	31.00	6.92	123.9	5.20	5.16	0.086	
BRA-LR-1(bottom)		25.0	1106	31.00	6.90	126.2	5.22	5.61	0.086	
BRA-LS+3A(surface)	4.3	Surface	1054	31.70	7.19	119.0	6.94	2.46	0.086	33.185681, -83.311205
BRA-LS+3(surface)	13.8	Surface	1048	31.40	7.16	107.7	6.72	3.02	0.085	33.185457, -83.311869
BRA-LS+3(mid)		7.0	1052	31.20	7.07	115.4	6.66	2.98	0.084	
BRA-LR+8A(surface)	9.2	Surface	1135	31.38	7.15	98.7	6.09	3.03	0.082	33.188793, -83.298479
BRA-LR+9A(surface)	3.4	Surface	1140	31.50	7.01	109.1	6.64	2.20	0.082	33.190136, -83.297139
BRA-LR+8(surface)	27.3	Surface	1036	31.16	6.98	118.4	5.77	4.18	0.084	33.187322, -83.296928
BRA-LR+8(mid)		13.0	1038	31.11	6.95	123.8	5.75	4.04	0.083	
BRA-LR+8(bottom)		27.0	1041	31.11	6.96	125.1	5.74	4.12	0.083	
BRA-LR+9(surface)	35.3	Surface	1029	31.11	6.95	124.4	5.54	3.38	0.082	33.189500, -83.295199
BRA-LR+9(mid)		17.0	1032	31.11	6.94	126.8	5.63	3.34	0.082	
BRA-LR+9(bottom)		35.0	1035	31.11	6.95	128.2	5.53	3.35	0.082	
BRA-LR-10(surface)	19.3	Surface	1011	31.11	7.02	113.0	5.67	3.64	0.081	33.188519, -83.284506
BRA-LR-10(mid)		9.0	1014	30.55	6.98	118.0	5.71	3.89	0.081	
BRA-LR-10(bottom)		19.0	1019	29.94	6.99	119.2	5.69	3.92	0.081	

Staff: JB/AS/HA/DJ/TG | Date: 8/21/23 | Time (start/finish): 1120 / 1730

AP-BCD

Well-ID	Depth to Water	Total Depth (feet bgs)[2]	Screen Interval (feet bgs)		Screen Length	Old Well-ID	Location	Has Dedicated Pump (Y/N)	TD
PZ-44	27.66	57.0	46.6	56.6	10.0	NA	Downgradient B	N	59.54
PZ-50D	38.42	106.0	96.02	106.02	10.0	NA	Downgradient	N	110.20
PZ-51S	38.85	45.4	40	45	5.0	NA	Downgradient B	N	47.97
PZ-51I	38.38	65.0	54.9	64.9	10.0	NA	Downgradient B	N	68.02
PZ-51D	38.11	106.0	96.02	106.02	10.0	NA	Downgradient B	N	109.08
PZ-57I	36.29	75.0	65.58	75.58	10.0	NA	Downgradient B	N	
PZ-58I	38.19	63.9	53.6	63.6	10.0	NA	Downgradient B	N	66.92
PZ-59I	39.75	66.0	56.4	66.4	10.0	NA	Downgradient B	N	64.80
PZ-60I	38.19	60.8	50.43	60.43	10.0	NA	Downgradient B	N 64.07	~~77.96~~
PZ-61I	47.95	78.0	65.77	75.77	10.0	NA	Downgradient B	N	77.96
PZ-62I	39.17	70.0	60	70	10.0	NA	Downgradient B	N	
PZ-63I	39.47	56.5	46.5	56.5	10.0	NA	Downgradient B	N	
PZ-64I	38.53	69.3	58.75	68.75	10.0	PZ-64	Downgradient B	N	71.54
PZ-65I	36.08	69.3	58.75	68.75	10.0	PZ-65	Downgradient B	N	72.26
PZ-66I	35.75	68.3	57.75	67.75	10.0	PZ-66	Downgradient B	N	
PZ-68D	46.85	84.3	73.75	83.75	10.0	PZ-68	Downgradient D	N	87.0

Staff	Date	Time (start/finish)
XB/HA/AS/TS/TG	8/21/12	1120/1730

AP-BCD

TP

Well ID	Depth to Water	Total Depth (feet bgs)[2]	Screen Interval (feet bgs)		Screen Length	Old Well ID	Location	Has Dedicated Pump (Y/N)
BRGWA-2S	12.27	44.6	34.2	44.2	10.0	PZ-2S	Upgradient BCD & E	Y
BRGWA-2I	12.07	64.3	53.9	63.9	10.0	PZ-2I	Upgradient BCD & E	Y
BRGWA-5S	12.94	40.0	29.6	39.6	10.0	PZ-5S	Upgradient BCD & E	Y
BRGWA-5I	12.85	61.2	50.8	60.8	10.0	PZ-5I	Upgradient BCD & E	Y
BRGWA-6S	426.46	49.7	39.3	49.3	10.0	PZ-6S	Upgradient BCD & E	Y
BRGWA-23S	38.69	40.8	30.8	40.8	10.0	PZ-23S	Upgradient BCD	Y
BRGWC-25I	11.08	20.5	10.5	20.5	10.0	PZ-25I	Downgradient B	Y
BRGWC-27I	10.98	24.0	14	24	10.0	PZ-27S	Downgradient C	Y
BRGWC-29I	10.88	20.0	10	20	10.0	PZ-29I	Downgradient C	Y
BRGWC-30I	4.88	20.3	10	20	10.0	PZ-30I	Downgradient D	Y
BRGWC-32S	40.50	45.0	35	45	10.0	PZ-32S	Downgradient D	Y
BRGWC-45	15.20	57.0	46.6	56.6	10.0	PZ-45	Downgradient B	Y
BRGWC-47	27.42	92.0	81.6	91.6	10.0	PZ-47	Downgradient D	Y
BRGWC-50	38.23	65.0	54.6	64.6	10.0	PZ-50	Downgradient B	Y
BRGWC-52I	39.68	73.9	63.9	73.9	10.0	PZ-52	Downgradient B	

48.35

Staff: HA/JB/AB/DS/TG Date: 8/21/23 Time (start/finish): 1120/1730

LANDFILL

Well-ID	Depth to Water	Total Depth (feet bgs)[4]	Screen Interval (feet bgs)		Screen Length	Old Well-ID	Location	Has Dedicated Pump (Y/N)
BRLFC-01	10.84	35.47	21.75	31.75	10.0	NA	Downgradient	N
BRLFC-02	16.02	54.12	41	51	10.0	NA	Downgradient	N
BRLFC-03	2.92	41.81	29.25	39.25	10.0	NA	Downgradient	N
BRLFC-04	16.76	60.20	36.5	46.5	10.0	NA	Downgradient	N
BRLFC-05	13.07	43.33	30	40	10.0	NA	Downgradient	N
BRLFC-06	13.16	47.09	34.1	44.1	10.0	NA	Downgradient	N
BRLFC-07	21.21	54.25	40.7	50.7	10.0	NA	Downgradient	N
BRLFC-08	14.33	56.49	43.3	53.3	10.0	NA	Downgradient	N
BRLFC-09	11.35	50.74	36.9	46.9	10.0	NA	Downgradient	N
BRLFC-10	18.77	43.08	67.3	77.3	10.0	NA	Downgradient	N
BRLFC-11	21.19	41.08	15.5	25.5	10.0	NA	Downgradient	N
BRLFC-12	10.60	53.23	39.7	49.7	10.0	NA	Downgradient	N
BRLFC-13	17.35	50.60	36.5	46.5	10.0	NA	Downgradient	N
BRLFC-14	11.79	40.46	36.3	46.3	10.0	NA	Downgradient	N
BRLFC-15	27.89	46.46	22.1	32.1	10.0	NA	Downgradient	N
BRLFC-16	34.51	53.29	29.2	39.2	10.0	NA	Downgradient	N

Staff: SB/HA/AS/TG/DS | Date: 8/21/23 | Time (start/finish): 1120 / 1730

PZs, IWs

Well-ID	Depth to Water	Total Depth (feet bgs)[2]	Screen Interval (feet bgs)		Screen Length	Old Well-ID	Location	Has Dedicated Pump (Y/N)
IWs								
IW-B-1	22.42	40.2	4.9	39.9	35.0	NA	NA	
IW-B-2	9.00	16.3	6	16	10.0	NA	NA	N
IW-B-3	17.74					NA	NA	N
IW-B-4	23.35					NA	NA	N
IW-B-5	27.62					NA	NA	N
IW-C-1	15.53	19.2	8.9	18.9	10.0	NA	NA	
IW-C-2	19.68	26.3	6	26	20.0	NA	NA	
IW-D-1	Dry	16.5	6.2	16.2	10.0	NA	NA	
IW-D-2	24.04	30.0	4.7	29.7	25.0	NA	NA	
IW-D-3	unable to locate					NA	NA	
IW-E-1	9.67	NA	NA	NA	NA	NA	NA	N
DW-B1	21.22						NA	N
OW-B1	21.21						NA	N
OW-B2	20.72						NA	N
OW-B3	20.92						NA	N
OW-B4	21.11						NA	N
OW-B5	21.68						NA	N
OW-B6	21.98						NA	N
DW-D1	18.25						NA	
OW-D1	17.75						NA	

Staff JB/HA/AS/TG/DS **Date** 8/21/23 **Time (start/finish)** 1120 / 1730

OW-D2	17.81						NA	
OW-D3	17.24						NA	
OW-D4	16.48						NA	
OW-D5	Unable to locate						NA	
OW-D6	Unable to locate						NA	
C2-02	45.37					NA		✓

Staff: JR/HA/AS/DJ/TG

Date: 8/21/23

Time (start/finish): 1110 / 1730

PZs

Well-ID	Depth to Water	Total Depth (feet bgs)[2]	Screen Interval (feet bgs)		Screen Length	Old Well-ID	Location	Has Dedicated Pump (Y/N)	
PZ-40S	15.79	40.2	28.8	38.8	10.0	NA	Downgradient A		PZ-40S
PZ-41S	16.97	44.2	33.8	43.8	10.0	NA	Downgradient A		PZ-41S
PZ-42S	20.14	32.2	21.8	31.8	10.0	NA	Downgradient A		PZ-42S
PZ-43	29.72	40.4	30	40	10.0	NA	Downgradient A		PZ-43
PZ-46	11.69	45.6	35.6	45.6	10.0	NA	Downgradient B		PZ-46
PZ-48	31.82	67.0	56.6	66.6	10.0	NA	Downgradient D	N	PZ-48
PZ-49	9.47	17.0	6.6	16.6	10.0	NA	Downgradient B	N	PZ-49
PZ-54	49.29	62.0	42	52	10.0	NA	Downgradient E	N	PZ-54
PZ-55	55.51	49.3	39.3	49.3	10.0	NA	Downgradient E	N	PZ-55
PZ-56	9.21	29.3	19.3	29.3	10.0	NA	Downgradient B	N	PZ-56
PZ-67	30.41	38.3	27.75	37.75	10.0	NA	Downgradient B	N	PZ-67
PZ-68D	40.85	84.3	73.7	83.7	10.0	NA	Downgradient D		PZ-68D
PZ-69I	21.45	39.3	28.8	38.8	10.0	NA	Downgradient D	N	PZ-69I
PZ-71I	34.14				10.0	NA		N	PZ-71I
PZ-72I	25.87				10.0	NA		N	PZ-72I
PZ-73I	7.57				10.0	NA		N	PZ-73I

On the list twice

Staff: JB/HL/AS/DS/TG | Date: 8/21/23 | Time (start/finish): 1120 / 1330

PZs

Well-ID	Depth to Water	Total Depth (feet bgs)[2]	Screen Interval (feet bgs)		Screen Length	Old Well-ID	Location	Has Dedicated Pump (Y/N)	
PZ-15S	11.38	39.9	29.9	39.9	10.0	NA	Downgradient	N	
PZ-16I	12.43	38.6	28.2	38.2	10.0	NA	Downgradient	N	
PZ-16S	12.59	19.1	8.7	18.7	10.0	NA	Downgradient	N	
PZ-17I	3.56	43.5	33.1	43.1	10.0	NA	Downgradient	N	
PZ-18I	20.68	38.4	28.3	38.3	10.0	NA	Downgradient	N	
PZ-18S	20.87	24.2	14.7	24.7	10.0	NA	Downgradient	N	w/ Transducer
PZ-19I	15.13	43.7	33.3	43.3	10.0	NA	Downgradient	N	
PZ-19S	14.85	28.0	17.6	27.6	10.0	NA	Downgradient	N	w/ Transducer
PZ-20I	17.14	29.5	19.1	29.1	10.0	NA	Downgradient	N	
PZ-20S	17.28	15.3	4.9	14.9	10.0	NA	Downgradient	N	w/ Tandem
PZ-21I	12.58	24.4	14	24	10.0	NA	Downgradient	N	
PZ-21S	12.09	9.8	4.4	9.4	5.0	NA	Downgradient	N	
PZ-23I	38.14	66.5	56.5	66.5	10.0	NA	Downgradient	N	
PZ-24S	14.71	42.0	31.5	41.5	10.0	BRGWC-24S	Downgradient A	N	
PZ-26I	22.92	30.5	20.5	30.5	10.0	NA	Downgradient	N	
PZ-28I	16.62	24.0	14	24	10.0	NA	Downgradient	N	
PZ-31S	27.07	39.5	29.5	39.5	10.0	NA	Downgradient	N	

Staff: JB/HA/AD/DS/TG | Date: 8/21/24 | Time (start/finish): 1170 / 1750

PZs

Well-ID	Depth to Water	Total Depth (feet bgs)[2]	Screen Interval (feet bgs)		Screen Length	Old Well-ID	Location	Has Dedicated Pump (Y/N)
PZ-74I	23.17				10.0	NA		N
PZ-75I	17.86				10.0	NA		N
PZ-76I	20.02	44.02			10.0	NA		N
PZ-77I	18.69	43.20			10.0	NA		N
PZ-78I	N/A	Not Tested Well			10.0	NA		
PZ-79	13.73				10.0	NA		N
Temporary Piezometers								
PB-13D		97.0	87	97	10.0	NA	Downgradient	

TD TOC
50.95
30.54
193

Staff: JB/AS/HA/DJ/TG | Date: 8/21/23 | Time (start/finish): 1120 / 1730

AP-BCD

Well-ID	Depth to Water	Total Depth (feet bgs)[2]	Screen Interval (feet bgs)		Screen Length	Old Well-ID	Location	Has Dedicated Pump (Y/N)	TD
PZ-44	27.66	57.0	46.6	56.6	10.0	NA	Downgradient B	N	59.54
PZ-50D	38.42	106.0	96.02	106.02	10.0	NA	Downgradient	N	110.20
PZ-51S	38.85	45.4	40	45	5.0	NA	Downgradient B	N	47.97
PZ-51I	38.38	65.0	54.9	64.9	10.0	NA	Downgradient B	N	68.02
PZ-51D	38.11	106.0	96.02	106.02	10.0	NA	Downgradient B	N	109.08
PZ-57I	36.29	75.0	65.58	75.58	10.0	NA	Downgradient B	N	
PZ-58I	38.19	63.9	53.6	63.6	10.0	NA	Downgradient B	N	66.92
PZ-59I	39.75	66.0	56.4	66.4	10.0	NA	Downgradient B	N	64.80
PZ-60I	38.19	60.8	50.43	60.43	10.0	NA	Downgradient B	N 64.07	~~77.96~~
PZ-61I	47.95	78.0	65.77	75.77	10.0	NA	Downgradient B	N	77.96
PZ-62I	39.17	70.0	60	70	10.0	NA	Downgradient B	N	
PZ-63I	39.47	56.5	46.5	56.5	10.0	NA	Downgradient B	N	
PZ-64I	38.53	69.3	58.75	68.75	10.0	PZ-64	Downgradient B	N	71.54
PZ-65I	36.08	69.3	58.75	68.75	10.0	PZ-65	Downgradient B	N	72.26
PZ-66I	35.75	68.3	57.75	67.75	10.0	PZ-66	Downgradient B	N	
PZ-68D	46.85	84.3	73.75	83.75	10.0	PZ-68	Downgradient D	N	87.0

Staff	Date	Time (start/finish)
XB/HA/AS/TS/TG	8/21/12	1120/1730

AP-BCD

TP

Well ID	Depth to Water	Total Depth (feet bgs)[2]	Screen Interval (feet bgs)		Screen Length	Old Well ID	Location	Has Dedicated Pump (Y/N)
BRGWA-2S	12.27	44.6	34.2	44.2	10.0	PZ-2S	Upgradient BCD & E	Y
BRGWA-2I	12.07	64.3	53.9	63.9	10.0	PZ-2I	Upgradient BCD & E	Y
BRGWA-5S	12.94	40.0	29.6	39.6	10.0	PZ-5S	Upgradient BCD & E	Y
BRGWA-5I	12.85	61.2	50.8	60.8	10.0	PZ-5I	Upgradient BCD & E	Y
BRGWA-6S	426.46	49.7	39.3	49.3	10.0	PZ-6S	Upgradient BCD & E	Y
BRGWA-23S	38.69	40.8	30.8	40.8	10.0	PZ-23S	Upgradient BCD	Y
BRGWC-25I	11.08	20.5	10.5	20.5	10.0	PZ-25I	Downgradient B	Y
BRGWC-27I	10.98	24.0	14	24	10.0	PZ-27S	Downgradient C	Y
BRGWC-29I	10.88	20.0	10	20	10.0	PZ-29I	Downgradient C	Y
BRGWC-30I	4.88	20.3	10	20	10.0	PZ-30I	Downgradient D	Y
BRGWC-32S	40.50	45.0	35	45	10.0	PZ-32S	Downgradient D	Y
BRGWC-45	15.20	57.0	46.6	56.6	10.0	PZ-45	Downgradient B	Y
BRGWC-47	27.42	92.0	81.6	91.6	10.0	PZ-47	Downgradient D	Y
BRGWC-50	38.23	65.0	54.6	64.6	10.0	PZ-50	Downgradient B	Y
BRGWC-52I	39.68	73.9	63.9	73.9	10.0	PZ-52	Downgradient B	

48.35

Staff: HA/JB/AB/DS/TG Date: 8/21/23 Time (start/finish): 1120/1730

LANDFILL

Well-ID	Depth to Water	Total Depth (feet bgs)[4]	Screen Interval (feet bgs)		Screen Length	Old Well-ID	Location	Has Dedicated Pump (Y/N)
BRLFC-01	10.84	35.47	21.75	31.75	10.0	NA	Downgradient	N
BRLFC-02	16.02	54.12	41	51	10.0	NA	Downgradient	N
BRLFC-03	2.92	41.81	29.25	39.25	10.0	NA	Downgradient	N
BRLFC-04	16.76	60.20	36.5	46.5	10.0	NA	Downgradient	N
BRLFC-05	13.07	43.33	30	40	10.0	NA	Downgradient	N
BRLFC-06	13.16	47.09	34.1	44.1	10.0	NA	Downgradient	N
BRLFC-07	21.21	54.25	40.7	50.7	10.0	NA	Downgradient	N
BRLFC-08	14.33	56.49	43.3	53.3	10.0	NA	Downgradient	N
BRLFC-09	11.35	50.74	36.9	46.9	10.0	NA	Downgradient	N
BRLFC-10	18.77	43.08	67.3	77.3	10.0	NA	Downgradient	N
BRLFC-11	21.19	41.08	15.5	25.5	10.0	NA	Downgradient	N
BRLFC-12	10.60	53.23	39.7	49.7	10.0	NA	Downgradient	N
BRLFC-13	17.35	50.60	36.5	46.5	10.0	NA	Downgradient	N
BRLFC-14	11.79	40.46	36.3	46.3	10.0	NA	Downgradient	N
BRLFC-15	27.89	46.46	22.1	32.1	10.0	NA	Downgradient	N
BRLFC-16	34.51	53.29	29.2	39.2	10.0	NA	Downgradient	N

Staff: SB/HA/AS/TG/DS | Date: 8/21/23 | Time (start/finish): 1120 / 1730

PZs, IWs

Well-ID	Depth to Water	Total Depth (feet bgs)[2]	Screen Interval (feet bgs)		Screen Length	Old Well-ID	Location	Has Dedicated Pump (Y/N)
IWs								
IW-B-1	22.42	40.2	4.9	39.9	35.0	NA	NA	
IW-B-2	9.00	16.3	6	16	10.0	NA	NA	N
IW-B-3	17.74					NA	NA	N
IW-B-4	23.35					NA	NA	N
IW-B-5	27.62					NA	NA	N
IW-C-1	15.53	19.2	8.9	18.9	10.0	NA	NA	
IW-C-2	19.68	26.3	6	26	20.0	NA	NA	
IW-D-1	Dry	16.5	6.2	16.2	10.0	NA	NA	
IW-D-2	24.04	30.0	4.7	29.7	25.0	NA	NA	
IW-D-3	unable to locate					NA	NA	
IW-E-1	9.67	NA	NA	NA	NA	NA	NA	N
DW-B1	21.22						NA	N
OW-B1	21.21						NA	N
OW-B2	20.72						NA	N
OW-B3	20.92						NA	N
OW-B4	21.11						NA	N
OW-B5	21.68						NA	N
OW-B6	21.98						NA	N
DW-D1	18.25						NA	
OW-D1	17.75						NA	

Staff JB/HA/AS/TG/DS **Date** 8/21/23 **Time (start/finish)** 1120 / 1730

OW-D2	17.81						NA	
OW-D3	17.24						NA	
OW-D4	16.48						NA	
OW-D5	Unable to locate						NA	
OW-D6	Unable to locate						NA	
C2-02	45.37					NA		✓

Staff: JR/HA/AS/DJ/TG

Date: 8/21/23

Time (start/finish): 1110 / 1730

PZs

Well-ID	Depth to Water	Total Depth (feet bgs)[2]	Screen Interval (feet bgs)		Screen Length	Old Well-ID	Location	Has Dedicated Pump (Y/N)	
PZ-40S	15.79	40.2	28.8	38.8	10.0	NA	Downgradient A		PZ-40S
PZ-41S	16.97	44.2	33.8	43.8	10.0	NA	Downgradient A		PZ-41S
PZ-42S	20.14	32.2	21.8	31.8	10.0	NA	Downgradient A		PZ-42S
PZ-43	29.72	40.4	30	40	10.0	NA	Downgradient A		PZ-43
PZ-46	11.69	45.6	35.6	45.6	10.0	NA	Downgradient B		PZ-46
PZ-48	31.82	67.0	56.6	66.6	10.0	NA	Downgradient D	N	PZ-48
PZ-49	9.47	17.0	6.6	16.6	10.0	NA	Downgradient B	N	PZ-49
PZ-54	49.29	62.0	42	52	10.0	NA	Downgradient E	N	PZ-54
PZ-55	55.51	49.3	39.3	49.3	10.0	NA	Downgradient E	N	PZ-55
PZ-56	9.21	29.3	19.3	29.3	10.0	NA	Downgradient B	N	PZ-56
PZ-67	30.41	38.3	27.75	37.75	10.0	NA	Downgradient B	N	PZ-67
PZ-68D	40.85	84.3	73.7	83.7	10.0	NA	Downgradient D		PZ-68D
PZ-69I	21.45	39.3	28.8	38.8	10.0	NA	Downgradient D	N	PZ-69I
PZ-71I	34.14				10.0	NA		N	PZ-71I
PZ-72I	25.87				10.0	NA		N	PZ-72I
PZ-73I	7.57				10.0	NA		N	PZ-73I

On the list twice

Staff: JB/HL/AS/DS/TG | Date: 8/21/23 | Time (start/finish): 1120 / 1330

PZs

Well-ID	Depth to Water	Total Depth (feet bgs)[2]	Screen Interval (feet bgs)		Screen Length	Old Well-ID	Location	Has Dedicated Pump (Y/N)	
PZ-15S	11.38	39.9	29.9	39.9	10.0	NA	Downgradient	N	
PZ-16I	12.43	38.6	28.2	38.2	10.0	NA	Downgradient	N	
PZ-16S	12.59	19.1	8.7	18.7	10.0	NA	Downgradient	N	
PZ-17I	3.56	43.5	33.1	43.1	10.0	NA	Downgradient	N	
PZ-18I	20.68	38.4	28.3	38.3	10.0	NA	Downgradient	N	
PZ-18S	20.87	24.2	14.7	24.7	10.0	NA	Downgradient	N	w/ Transducer
PZ-19I	15.13	43.7	33.3	43.3	10.0	NA	Downgradient	N	
PZ-19S	14.85	28.0	17.6	27.6	10.0	NA	Downgradient	N	w/ Transducer
PZ-20I	17.14	29.5	19.1	29.1	10.0	NA	Downgradient	N	
PZ-20S	17.28	15.3	4.9	14.9	10.0	NA	Downgradient	N	w/ Tandem
PZ-21I	12.58	24.4	14	24	10.0	NA	Downgradient	N	
PZ-21S	12.09	9.8	4.4	9.4	5.0	NA	Downgradient	N	
PZ-23I	38.14	66.5	56.5	66.5	10.0	NA	Downgradient	N	
PZ-24S	14.71	42.0	31.5	41.5	10.0	BRGWC-24S	Downgradient A	N	
PZ-26I	22.92	30.5	20.5	30.5	10.0	NA	Downgradient	N	
PZ-28I	16.62	24.0	14	24	10.0	NA	Downgradient	N	
PZ-31S	27.07	39.5	29.5	39.5	10.0	NA	Downgradient	N	

Staff: JB/HA/AD/DS/TG | Date: 8/21/24 | Time (start/finish): 1170 / 1750

PZs

Well-ID	Depth to Water	Total Depth (feet bgs)[2]	Screen Interval (feet bgs)		Screen Length	Old Well-ID	Location	Has Dedicated Pump (Y/N)
PZ-74I	23.17				10.0	NA		N
PZ-75I	17.86				10.0	NA		N
PZ-76I	20.02	44.02			10.0	NA		N
PZ-77I	18.69	43.20			10.0	NA		N
PZ-78I	N/A	Not Tested Well			10.0	NA		
PZ-79	13.73				10.0	NA		N
Temporary Piezometers								
PB-13D		97.0	87	97	10.0	NA	Downgradient	

TD TOC
50.95
30.54
193

Staff: TG/JT

Date: 8-21-23

Time (start/finish): 1300 / 1800

AP-E

Well-ID	Depth to Water	Total Depth (feet bgs)[3]	Screen Interval (feet bgs)		Screen Length	Old Well-ID	Location	Has Dedicated Pump (Y/N)	Total Depth
BRGWA-2S	12.27	44.6	34.2	44.2	10.0	PZ-2S	Upgradient E	Y (Transducer)	NA
BRGWA-2I	12.07	64.3	53.9	63.9	10.0	PZ-2I	Upgradient E	Y	NA
BRGWA-5S	12.94	40.0	29.6	39.6	10.0	PZ-5S	Upgradient E	Y	NA
BRGWA-5I	12.85	61.2	50.6	60.6	10.0	PZ-5I	Upgradient E	Y	NA
BRGWA-6S	26.46	49.7	39.3	49.3	10.0	PZ-6S	Upgradient E	Y Y	NA
BRGWC-17S	6.03	7.1	1.7	6.7	5.0	PZ-17S	Downgradient E	Transducer	7.05
BRGWC-33S	12.31	26.4	16	26	10.0	PZ-33S	Downgradient E	Y	NA
BRGWC-34S	3.45	23.0	13	23	10.0	PZ-34S	Downgradient E	Y	NA
BRGWC-35S	2.20	27.4	17	27	10.0	PZ-35S	Downgradient E	Y	NA
BRGWC-36S	4.98	28.7	18.7	28.7	10.0	PZ-36S	Downgradient E	N	35.69
BRGWC-37S	53.22	63.6	53.6	63.6	10.0	PZ-37S	Downgradient E	N	NA
BRGWC-38S	23.30	38.2	27.8	37.8	10.0	PZ-38S	Downgradient E	Y	NA
PZ-13S	27.95	34.7	24.3	34.3	10.0	NA	Downgradient E	N	38.40
PZ-52D	24.93	59.5	49.5	59.5	10.0	NA	Downgradient E	N	62.37
PZ-53D	24.07	139.4	129.4	139.4	10.0	NA	Downgradient E	Y	NA
PZ-70I	28.62	50.0	39.5	49.5	10.0	NA	Downgradient E	N	52.98

Staff: TG/[redacted]JT

Date: 8-21-23

Time (start/finish): 1300/1800

PZs

Well-ID	Depth to Water	Total Depth (feet bgs)[2]	Screen Interval (feet bgs)		Screen Length	Old Well-ID	Location	Has Dedicated Pump (Y/N)	Total Depth
PZ-1D	39.89	160.0	65.5	160	94.5	NA	Upgradient	N	NA
PZ-1I	41.53	79.5	69.1	79.1	10.0	NA	Upgradient	Transducer	NA
PZ-1S	39.69	65.0	54.6	64.6	10.0	NA	Upgradient	N	NA
PZ-3D	49.44	130.0	48	130	82.0	NA	Upgradient	N	NA
PZ-3I	51.06	54.6	44.2	54.2	10.0	NA	Upgradient	N	NA
PZ-3S	DRY	39.9	29.5	39.5	10.0	NA	Upgradient	N	NA
PZ-4I	33.98	46.8	36.4	46.4	10.0	NA	Upgradient	Transducer	NA
PZ-4S	32.21	30.0	19.6	29.6	10.0	NA	Upgradient	N	NA
PZ-7S	28.60	44.5	34.1	44.1	10.0	NA	Downgradient	N	NA
PZ-8S	27.06	49.5	39.1	49.1	10.0	NA	Upgradient	N	NA
PZ-9S	35.90	48.0	37.6	47.6	10.0	NA	Upgradient	N	NA
PZ-10S	27.75	39.0	28.6	38.6	10.0	NA	Downgradient	N	NA
PZ-14I	19.45	53.8	43.4	53.4	10.0	NA	Downgradient	N	NA
PZ-14S	23.84	37.6	27.2	37.2	10.0	NA	Downgradient	N	NA
PZ-15I	11.12	88.7	78.3	88.3	10.0	NA	Downgradient	N	NA

Obstruction at 13.0 btoc possible to get past

FIELD STAFF:
JB/AS/HA/TG/DS

Georgia Power Site Sampling Data (GW)

Site Name: Plant Branch AP - Upgradient Wells Dates : 8/21/23 - 8/24/23

Sample ID	Sample Date	Sample Time	Additional Comments
BRA-BRGWA-2S	8/22/23	1006	check field ferrous iron $Fe^{2+} = 0.0$ mg/L
BRA-BRGWA-2I	08/22/23	1012	$Fe^{2+} = 0.0$ mg/L Plus Eurofins split sulfide check field ferrous iron
BRA-BRGWA-5S	8/22/23	1005	$Fe^{2+} = 0.0$ mg/L check field ferrous iron
BRA-BRGWA-5I	8/22	1010	$Fe^{2+} = 0.0$ mg/L Plus Eurofins split sulfide check field ferrous iron
BRA-BRGWA-6S	8/22/23	1015	Plus Eurofins split sulfide check field ferrous iron $Fe^{2+} = 0.0$ mg/L

Put Upgradient, BCD, E, New PZs, and Split on separate COCs

Matrix codes WG for groundwater, WS for surface water, WW for wastewater, WQ for field blanks and equipment blanks
FD for blind field duplicates with WG matrix

Additional comments :

Note if Dissolved metals were taken

Task_Code: BRA-CCR-ASSMT-2023S2

FIELD STAFF:
SB / HA / AS / DS

Georgia Power Site Sampling Data (GW)

Site Name: Plant Branch AP - BCD Dates : 8/21/23 8/24/23

	Sample ID	Sample Date	Sample Time	Additional Comments
AS	BRA-APBCD-FD-01	08/23/23	—	Parent Sample: BR GWC-5D
SB	BRA-APBCD-FD-02	8/23/23	1630	Parent Sample: PZ-63I
	BRA-APBCD-FD-03	8/24/23	1206	Parent Sample: BR GWC-45
	BRA-APBCD-FB-01	8/22/23	1400	Poured at: BR GWC-32S
	BRA-APBCD-FB-02	08/23/23	1450	Poured at: PZ-51I
	BRA-APBCD-FB-03	08/24/23	1255	Poured at: BR GWC-52I
HA	BRA-APBCD-EB-04	08/23/23	1135	Equipment Type: Portl. BP
	BRA-APBCD-EB-05	8/24/23	0955	Equipment Type: Peri Pump
	BRA-APBCD-EB-06	08/24/23	1400	Equipment Type: Water Level

Put Upgradient, BCD, E, New PZs, and Split on separate COCs

Matrix codes WG for groundwater, WS for surface water, WW for wastewater, WQ for field blanks and equipment blanks
FD for blind field duplicates with WG matrix

Additional comments :

Note if Dissolved metals were taken

Task_Code: BRA-CCR-ASSMT-202352

FIELD STAFF:
JB/AS/HA/DS

Georgia Power Site Sampling Data (GW)

Site Name: Plant Branch AP - BCD Dates: 8/21/23 - 8/24/23

Sample ID	Sample Date	Sample Time	Additional Comments
BRA-BRGWA-23S	8/22/23	1240	Fe^{2+}: 0 mg/L check field ferrous iron
DS BRA-BRGWC-25I	08/24/23	1647	Fe^{2+} = 0.0 mg/L check field ferrous iron
DS BRA-BRGWC-27I	8/24/23	1225	Fe^{2+} 0.0 mg/L check field ferrous iron
JD BRA-BRGWC-29I	08/24/23	1520	Fe^{2+} = 6.5 mg/L check field ferrous iron
BRA-BRGWC-30I	8/22/23	1522	Fe^{2+} = 0.5 mg/L check field ferrous iron
BRA-BRGWC-32S	8/22/23	1420	Fe^{2+} = 0.0 mg/L check field ferrous iron
DS BRA-BRGWC-45	8/24/23	1206	Fe^{2+} = 0.0 mg/L check field ferrous iron
AS BRA-BRGWC-47	08/24/23	1445	Fe^{2+} = 0.0 mg/L check field ferrous iron
AS BRA-BRGWC-50	08/23/23	1100	Low pH on Grit Bottle Plus Eurofins split sulfide check field ferrous iron Fe^{2+} = 0.0 mg/L
AS BRA-BRGWC-52I	8/24/23	1305	Fe^{2+} = 1.0 mg/L check field ferrous iron
BRA-PZ-44	08/23/23	1640	Fe^{2+} = 0.0 mg/L check field ferrous iron
AS BRA-PZ-50D	08/23/23	1230	Fe^{2+} = 4.0 mg/L check field ferrous iron

FIELD STAFF:
JB / AS / HA / DS

Georgia Power Site Sampling Data (GW)

Site Name: Plant Branch AP - BCD Dates: 8/21/23 - 8/24/23

Sample ID	Sample Date	Sample Time	Additional Comments
HA BRA-PZ-51I	08/23/23	1500	Fe^{2+} = 0.0 mg/L check field ferrous iron
AS BRA-PZ-51D	8/24/23	1100	Fe^{2+} = 1.5 mg/L check field ferrous iron
BRA-PZ-57I	8/21/23	1755	Fe^{2+}: 1.0 mg/L Sulfide only
JB BRA-PZ-58I	8/23/23	1510	Fe^{2+}: 7.0 mg/L check field ferrous iron
BRA-PZ-59I	08/23/23	1140	gel PH = 8 ~~Split sample~~ Sulfide only *TA PH = 24
JB BRA-PZ-60I	08/23/23	1325	Fe^{2+}: 1.5 mg/L check field ferrous iron
BRA-PZ-61I	8/22/23	1615	Fe^{2+} = 0.5 mg/L check field ferrous iron
DS BRA-PZ-63I	8/23/23	1630	1.7 mg/L check field ferrous iron
HA BRA-PZ-64I	08/23/23 ~~08/23/23~~	1055 ~~1100~~	~~low PH on first Profile~~ Fe^{2+}: 1.75 Plus Eurofins split sulfide check field ferrous iron
BRA-PZ-65I	8/21/23	1745	Fe^{2+}: 5.0 mg/L Sulfide only
HA BRA-PZ-68D	08/23/23	1608	Fe^{2+} = 0.5 mg/L check field ferrous iron
BRA-PZ-74I	08/24/23	1415	Fe^{2+}: 1.5 mg/L check field ferrous iron
BRA-PZ-75I	8/24/23	1051	Fe^{2+}: ~~0.5~~ 0.5 mg/L check field ferrous iron

FIELD STAFF:
JB/AS/HA/DT

Georgia Power Site Sampling Data (GW)

Site Name: Plant Branch AP - New PZs Dates : 8/22 - 8/24/23

Sample ID	Sample Date	Sample Time	Additional Comments
BRA-PZ-76I	8/23/23	1037	Fe^{2+} = 0.0 mg/L First COC Plus Eurofins split sulfide check field ferrous iron
BRA-PZ-77I	8/23/23	1026	Fe^{2+} = 0.5 mg/L First COC Plus Eurofins split sulfide check field ferrous iron
BRA-PZ-79(in.)	8/22/23	1125	Fe^{2+} = 0.75 mg/L Second COC check field ferrous iron initial sample
BRA-PZ-79	8/23/23	1010	Fe^{2+} = 0.75 mg/L Second COC check field ferrous iron stabilized sample

Put Upgradient, BCD, E, New PZs, and Split on separate COCs

Matrix codes WG for groundwater, WS for surface water, WW for wastewater, WQ for field blanks and equipment blanks
FD for blind field duplicates with WG matrix

Additional comments :

Note if Dissolved metals were taken

Task_Code: BRA-CCR-OTH-2023MMDD (fill in month and first date of event on COC)

FIELD STAFF:
SB/AS/HA/DS

Georgia Power Site Sampling Data (GW)

Site Name: Plant Branch AP - Split Dates : 8/21/23 - 8/23/23

Sample ID	Sample Date	Sample Time	Additional Comments
Upgradient			
BRA-BRGWA-2I	08/22/23	1012	pH = 7 pH strip check for bottle >9
BRA-BRGWA-5I	08/22/23	1010	pH > 9 - yes Both pH strip check for bottle >9
BRA-BRGWA-6S	08/22/23	1015	pH > 9 - yes Both pH strip check for bottle >9
AP-B			
BRA-BRGWC-5D	08/23/23	1100	Low pH on Gel Bottle pH strip check for bottle >9
BRA-PZ-57I	08/21/23	1755	pH > 9 Both pH strip check for bottle >9
BRA-PZ-59I	08/23/23	1140	Both bottles > 9 pH strip check for bottle >9
BRA-PZ-64I	08/23/23	1055	Gel Bottle pH = 7 pH strip check for bottle >9
BRA-PZ-65I	08/21/23	1745	~~pH > 9~~ pH > 9 - yes Both pH strip check for bottle >9
AP-E			
BRA-BRGWC-33S	8-22-23	1210	pH > 9 - yes both pH strip check for bottle >9
BRA-BRGWC-35S	8-23-23	1201	Both bottles pH > 9 pH strip check for bottle >9
BRA-BRGWC-38S	8-23-23	1212	Gel Bottle = 7 pH strip check for bottle >9 Both Bottle = 12
BRA-PZ-76I	8-23-23	1037	pH strip check for bottle >9 Both Bottles > 9
BRA-PZ-77I	8-23-23	1026	pH strip check for bottle >9 Both Bottles > 9

Separate Eurofins COC

Matrix codes WG for groundwater, WS for surface water, WW for wastewater, WQ for field blanks and equipment blanks
FD for blind field duplicates with WG matrix

Additional comments : Split samples for sulfide analysis to be analyzed by Eurofins

Note if Dissolved metals were taken

Calibration Report

Instrument	Aqua TROLL 400
Serial Number	728623
Created	8/21/2023

Sensor	**RDO**
Serial Number	847873
Last Calibrated	8/21/2023

Calibration Details

Slope	0.9795665
Offset	0.00 mg/L

Calibration point 100%

Concentration	7.78 mg/L
Temperature	29.11 °C
Barometric Pressure	1,006.2 mbar

Sensor	**Conductivity**
Serial Number	728623
Last Calibrated	8/21/2023

Calibration Details

Cell Constant	0.585
Reference Temperature	25.00 °C
TDS Conversion Factor (ppm)	0.65

Sensor	**Level**
Serial Number	724054
Last Calibrated	7/10/2023

Calibration Details

Zero Offset	-0.17 psi
Reference Depth	0.00 ft
Reference Offset	0.00 psi

Sensor	**pH/ORP**
Serial Number	20790
Last Calibrated	8/21/2023

Calibration Details

Total Calibration Points	3

Calibration Point 1

pH of Buffer	4.01 pH
pH mV	169.3 mV
Temperature	31.40 °C

Calibration Point 2

pH of Buffer	6.99 pH
pH mV	-8.2 mV
Temperature	31.87 °C

Calibration Point 3

pH of Buffer	9.95 pH
pH mV	-165.7 mV
Temperature	31.24 °C

Slope and Offset 1

Slope	-59.57 mV/pH
Offset	-8.8 mV

Slope and Offset 2

Slope	-53.22 mV/pH
Offset	-8.7 mV

ORP

ORP Solution	Zobell's
Offset	3.5 mV
Temperature	31.72 °C

Calibration Report

Instrument	Aqua TROLL 400
Serial Number	728623
Created	8/22/2023

Sensor	**RDO**
Serial Number	847873
Last Calibrated	8/22/2023

Calibration Details

Slope	0.9668571
Offset	0.00 mg/L

Calibration point 100%

Concentration	8.69 mg/L
Temperature	23.66 °C
Barometric Pressure	1,005.7 mbar

Sensor	**Conductivity**
Serial Number	728623
Last Calibrated	8/22/2023

Calibration Details

Cell Constant	0.728
Reference Temperature	25.00 °C
TDS Conversion Factor (ppm)	0.65

Sensor	**Level**
Serial Number	724054
Last Calibrated	7/10/2023

Calibration Details

Zero Offset	-0.17 psi
Reference Depth	0.00 ft
Reference Offset	0.00 psi

Sensor	**pH/ORP**
Serial Number	20790
Last Calibrated	8/22/2023

Calibration Details

Total Calibration Points	3

Calibration Point 1

pH of Buffer	4.00 pH
pH mV	160.2 mV
Temperature	23.97 °C

Calibration Point 2

pH of Buffer	7.00 pH
pH mV	-14.4 mV
Temperature	24.06 °C

Calibration Point 3

pH of Buffer	10.00 pH
pH mV	-158.6 mV
Temperature	23.97 °C

Slope and Offset 1

Slope	-58.19 mV/pH
Offset	-14.4 mV

Slope and Offset 2

Slope	-48.07 mV/pH
Offset	-14.4 mV

ORP

ORP Solution	Zobell's
Offset	1.3 mV
Temperature	24.29 °C

Calibration Report

Instrument	Aqua TROLL 400
Serial Number	989619
Created	8/22/2023

Sensor	**RDO**
Serial Number	964975
Last Calibrated	8/22/2023

Calibration Details

Slope	0.9584947
Offset	0.00 mg/L

Calibration point 100%

Concentration	8.32 mg/L
Temperature	26.58 °C
Barometric Pressure	1,006.7 mbar

Sensor	**Conductivity**
Serial Number	989619
Last Calibrated	8/22/2023

Calibration Details

Cell Constant	0.595
Reference Temperature	25.00 °C
TDS Conversion Factor (ppm)	0.65

Sensor	**Level**
Serial Number	991190
Last Calibrated	Factory Defaults

Sensor	**pH/ORP**
Serial Number	22096
Last Calibrated	8/22/2023

Calibration Details

Total Calibration Points	3

Calibration Point 1

pH of Buffer	4.00 pH
pH mV	154.5 mV
Temperature	26.54 °C

Calibration Point 2

pH of Buffer	7.00 pH
pH mV	-17.7 mV
Temperature	26.34 °C

Calibration Point 3

pH of Buffer	10.00 pH
pH mV	-188.2 mV
Temperature	26.50 °C

Slope and Offset 1

Slope	-57.4 mV/pH
Offset	-17.7 mV

Slope and Offset 2

Slope	-56.84 mV/pH
Offset	-17.7 mV

ORP

ORP Solution	Zobell's
Offset	33.6 mV
Temperature	26.80 °C

Calibration Report

Instrument	Aqua TROLL 400
Serial Number	884189
Created	8/22/2023

Sensor	**RDO**
Serial Number	878531
Last Calibrated	8/22/2023

Calibration Details

Slope	1.077993
Offset	0.00 mg/L

Calibration point 100%

Concentration	7.12 mg/L
Temperature	28.04 °C
Barometric Pressure	1,004.3 mbar

Sensor	**Conductivity**
Serial Number	884189
Last Calibrated	8/22/2023

Calibration Details

Cell Constant	0.933
Reference Temperature	25.00 °C
TDS Conversion Factor (ppm)	0.65

Sensor	**Level**
Serial Number	879249
Last Calibrated	Factory Defaults

Sensor	**pH/ORP**
Serial Number	21633
Last Calibrated	8/22/2023

Calibration Details

Total Calibration Points	3

Calibration Point 1

pH of Buffer	4.01 pH
pH mV	150.0 mV
Temperature	27.62 °C

Calibration Point 2

pH of Buffer	6.99 pH
pH mV	-15.6 mV
Temperature	27.67 °C

Calibration Point 3

pH of Buffer	9.95 pH
pH mV	-196.1 mV
Temperature	27.98 °C

Slope and Offset 1

Slope	-55.56 mV/pH
Offset	-16.1 mV

Slope and Offset 2

Slope	-60.98 mV/pH
Offset	-16.2 mV

ORP

ORP Solution	Zobell's
Offset	35.2 mV
Temperature	27.66 °C

Calibration Report

Instrument	Aqua TROLL 400
Serial Number	728623
Created	8/23/2023

Sensor	**RDO**
Serial Number	847873
Last Calibrated	8/23/2023

Calibration Details

Slope	0.9610294
Offset	0.00 mg/L

Calibration point 100%

Concentration	8.09 mg/L
Temperature	27.90 °C
Barometric Pressure	1,005.0 mbar

Sensor	**Conductivity**
Serial Number	728623
Last Calibrated	8/23/2023

Calibration Details

Cell Constant	0.681
Reference Temperature	25.00 °C
TDS Conversion Factor (ppm)	0.65

Sensor	**Level**
Serial Number	724054
Last Calibrated	7/10/2023

Calibration Details

Zero Offset	-0.17 psi
Reference Depth	0.00 ft
Reference Offset	0.00 psi

Sensor	**pH/ORP**
Serial Number	20790
Last Calibrated	8/23/2023

Calibration Details

Total Calibration Points	3

Calibration Point 1

pH of Buffer	4.00 pH
pH mV	161.0 mV
Temperature	27.32 °C

Calibration Point 2

pH of Buffer	7.00 pH
pH mV	-17.4 mV
Temperature	26.42 °C

Calibration Point 3

pH of Buffer	10.00 pH
pH mV	-162.1 mV
Temperature	26.47 °C

Slope and Offset 1

Slope	-59.44 mV/pH
Offset	-17.4 mV

Slope and Offset 2

Slope	-48.25 mV/pH
Offset	-17.4 mV

ORP

ORP Solution	Zobell's
Offset	4.0 mV
Temperature	26.35 °C

Calibration Report

Instrument	Aqua TROLL 400
Serial Number	989619
Created	8/23/2023

Sensor	**RDO**
Serial Number	964975
Last Calibrated	8/22/2023

Calibration Details

Slope	0.9584947
Offset	0.00 mg/L

Calibration point 100%

Concentration	8.32 mg/L
Temperature	26.58 °C
Barometric Pressure	1,006.7 mbar

Sensor	**Conductivity**
Serial Number	989619
Last Calibrated	8/22/2023

Calibration Details

Cell Constant	0.595
Reference Temperature	25.00 °C
TDS Conversion Factor (ppm)	0.65

Sensor	**Level**
Serial Number	991190
Last Calibrated	Factory Defaults

Sensor	**pH/ORP**
Serial Number	22096
Last Calibrated	8/22/2023

Calibration Details

Total Calibration Points	3

Calibration Point 1

pH of Buffer	4.00 pH
pH mV	154.5 mV
Temperature	26.54 °C

Calibration Point 2

pH of Buffer	7.00 pH
pH mV	-17.7 mV
Temperature	26.34 °C

Calibration Point 3

pH of Buffer	10.00 pH
pH mV	-188.2 mV
Temperature	26.50 °C

Slope and Offset 1

Slope	-57.4 mV/pH
Offset	-17.7 mV

Slope and Offset 2

Slope	-56.84 mV/pH
Offset	-17.7 mV

ORP

ORP Solution	Zobell's
Offset	33.6 mV
Temperature	26.80 °C

Calibration Report

Instrument	Aqua TROLL 400
Serial Number	884189
Created	8/23/2023

Sensor	**RDO**
Serial Number	878531
Last Calibrated	8/23/2023

Calibration Details

Slope	1.083888
Offset	0.00 mg/L

Calibration point 100%

Concentration	7.01 mg/L
Temperature	28.22 °C
Barometric Pressure	1,003.7 mbar

Sensor	**Conductivity**
Serial Number	884189
Last Calibrated	8/23/2023

Calibration Details

Cell Constant	0.877
Reference Temperature	25.00 °C
TDS Conversion Factor (ppm)	0.65

Sensor	**Level**
Serial Number	879249
Last Calibrated	Factory Defaults

Sensor	**pH/ORP**
Serial Number	21633
Last Calibrated	8/23/2023

Calibration Details

Total Calibration Points	3

Calibration Point 1

pH of Buffer	4.00 pH
pH mV	148.9 mV
Temperature	27.44 °C

Calibration Point 2

pH of Buffer	6.99 pH
pH mV	-17.3 mV
Temperature	27.57 °C

Calibration Point 3

pH of Buffer	9.95 pH
pH mV	-194.8 mV
Temperature	28.06 °C

Slope and Offset 1

Slope	-55.6 mV/pH
Offset	-17.9 mV

Slope and Offset 2

Slope	-59.97 mV/pH
Offset	-17.9 mV

ORP

ORP Solution	Zobell's
Offset	49.7 mV
Temperature	26.65 °C

Calibration Report

Instrument	Aqua TROLL 400
Serial Number	728623
Created	8/24/2023

Sensor	**RDO**
Serial Number	847873
Last Calibrated	8/24/2023

Calibration Details

Slope	0.9797801
Offset	0.00 mg/L

Calibration point 100%

Concentration	8.51 mg/L
Temperature	24.10 °C
Barometric Pressure	1,006.1 mbar

Sensor	**Conductivity**
Serial Number	728623
Last Calibrated	8/24/2023

Calibration Details

Cell Constant	0.634
Reference Temperature	25.00 °C
TDS Conversion Factor (ppm)	0.65

Sensor	**Level**
Serial Number	724054
Last Calibrated	7/10/2023

Calibration Details

Zero Offset	-0.17 psi
Reference Depth	0.00 ft
Reference Offset	0.00 psi

Sensor	**pH/ORP**
Serial Number	20790
Last Calibrated	8/24/2023

Calibration Details

Total Calibration Points	3

Calibration Point 1

pH of Buffer	4.00 pH
pH mV	163.4 mV
Temperature	24.42 °C

Calibration Point 2

pH of Buffer	7.00 pH
pH mV	-14.3 mV
Temperature	24.35 °C

Calibration Point 3

pH of Buffer	10.00 pH
pH mV	-157.5 mV
Temperature	24.81 °C

Slope and Offset 1

Slope	-59.22 mV/pH
Offset	-14.3 mV

Slope and Offset 2

Slope	-47.75 mV/pH
Offset	-14.3 mV

ORP

ORP Solution	Zobell's
Offset	-1.1 mV
Temperature	24.85 °C

Calibration Report

Instrument	Aqua TROLL 400
Serial Number	965678
Created	8/24/2023

Sensor	**RDO**
Serial Number	964485
Last Calibrated	8/24/2023

Calibration Details

Slope	1.012094
Offset	0.00 mg/L

Calibration point 100%

Concentration	8.16 mg/L
Temperature	24.65 °C
Barometric Pressure	1,005.8 mbar

Sensor	**Conductivity**
Serial Number	965678
Last Calibrated	8/24/2023

Calibration Details

Cell Constant	0.829
Reference Temperature	25.00 °C
TDS Conversion Factor (ppm)	0.65

Sensor	**Level**
Serial Number	965199
Last Calibrated	Factory Defaults

Sensor	**pH/ORP**
Serial Number	21997
Last Calibrated	8/24/2023

Calibration Details

Total Calibration Points	3

Calibration Point 1

pH of Buffer	4.00 pH
pH mV	83.9 mV
Temperature	25.65 °C

Calibration Point 2

pH of Buffer	7.00 pH
pH mV	-85.2 mV
Temperature	25.78 °C

Calibration Point 3

pH of Buffer	10.00 pH
pH mV	-253.5 mV
Temperature	25.56 °C

Slope and Offset 1

Slope	-56.34 mV/pH
Offset	-85.2 mV

Slope and Offset 2

Slope	-56.12 mV/pH
Offset	-85.2 mV

ORP

ORP Solution	Zobell's
Offset	81.4 mV
Temperature	26.32 °C

Calibration Report

Instrument	Aqua TROLL 400
Serial Number	989619
Created	8/24/2023

Sensor	**RDO**
Serial Number	964975
Last Calibrated	8/24/2023

Calibration Details

Slope	1.047746
Offset	0.00 mg/L

Calibration point 100%

Concentration	7.97 mg/L
Temperature	24.05 °C
Barometric Pressure	1,006.9 mbar

Sensor	**Conductivity**
Serial Number	989619
Last Calibrated	8/23/2023

Calibration Details

Cell Constant	0.576
Reference Temperature	25.00 °C
TDS Conversion Factor (ppm)	0.65

Sensor	**Level**
Serial Number	991190
Last Calibrated	Factory Defaults

Sensor	**pH/ORP**
Serial Number	22096
Last Calibrated	8/24/2023

Calibration Details

Total Calibration Points	3

Calibration Point 1

pH of Buffer	4.00 pH
pH mV	149.9 mV
Temperature	24.91 °C

Calibration Point 2

pH of Buffer	7.00 pH
pH mV	-21.3 mV
Temperature	25.65 °C

Calibration Point 3

pH of Buffer	10.00 pH
pH mV	-191.9 mV
Temperature	25.14 °C

Slope and Offset 1

Slope	-57.07 mV/pH
Offset	-21.3 mV

Slope and Offset 2

Slope	-56.84 mV/pH
Offset	-21.3 mV

ORP

ORP Solution	Zobell's
Offset	38.7 mV
Temperature	25.82 °C

GEL Laboratories LLC
a member of The GEL Group INC

September 22, 2023

Joju Abraham
Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308

Re: Branch CCR Groundwater Compliance APE-R
Work Orders: 634443 and 634648

Dear Joju Abraham:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on August 23, 2023 and August 24, 2023. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Recieved
634443001	BRA-BRGWC-33S	Ground Water	22/08/23 12:10	23/08/23 13:00
634443002	BRA-APE-FD-04	Ground Water	22/08/23 12:00	23/08/23 13:00
634443003	BRA-BRGWC-34S	Ground Water	22/08/23 14:35	23/08/23 13:00
634443004	BRA-APE-FB-07	Water	22/08/23 15:10	23/08/23 13:00
634443005	BRA-BRGWC-37S	Ground Water	22/08/23 16:51	23/08/23 13:00
634443006	BRA-PZ-13S	Ground Water	22/08/23 16:47	23/08/23 13:00
634648001	BRA-BRGWC-17S	Ground Water	23/08/23 14:05	24/08/23 12:43
634648002	BRA-BRGWC-35S	Ground Water	23/08/23 12:01	24/08/23 12:43
634648003	BRA-BRGWC-36S	Ground Water	23/08/23 15:56	24/08/23 12:43
634648004	BRA-BRGWC-38S	Ground Water	23/08/23 12:12	24/08/23 12:43
634648005	BRA-PZ-70I	Ground Water	23/08/23 16:12	24/08/23 12:43
634648006	BRA-APE-FD-05	Ground Water	23/08/23 12:00	24/08/23 12:43
634648007	BRA-APE-FB-08	Water	23/08/23 16:30	24/08/23 12:43
634648008	BRA-APE-EB-09	Water	23/08/23 16:45	24/08/23 12:43
634648009	BRA-APE-EB-10	Water	23/08/23 13:15	24/08/23 12:43

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Prep Methods and Prep Dates

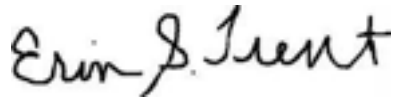
Not Applicable

Analysis Methods and Analysis Dates

Method	Run Date ID
Calculation	20-SEP-2023
Calculation	22-SEP-2023
EPA 903.1 Modified	20-SEP-2023
EPA 904.0/SW846 9320 Modified	05-SEP-2023
EPA 904.0/SW846 9320 Modified	18-SEP-2023
EPA 904.0/SW846 9320 Modified	20-SEP-2023
EPA 904.0/SW846 9320 Modified	22-SEP-2023

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4504.

Sincerely,



Erin Trent
Project Manager

Purchase Order: GPC82177-0006
Enclosures

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 634443 GEL Work Order: 634443

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Erin Trent.

Reviewed by Erin B. Trent

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 22, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPE-R

Client Sample ID: BRA-BRGWC-33S
Sample ID: 634443001
Matrix: WG
Collect Date: 22-AUG-23
Receive Date: 23-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.119	+/-0.702	1.33	+/-0.702	3.00	pCi/L			JE1	09/22/23	0821	2494433	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	0.521	+/-0.773	1.33	+/-0.779		pCi/L			NXL1	09/22/23	1016	2488604	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.401	+/-0.326	0.499	+/-0.337	1.00	pCi/L			LXP1	09/20/23	0819	2482017	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2494433	83.7	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
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Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 22, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPE-R

Client Sample ID: BRA-APE-FD-04
Sample ID: 634443002
Matrix: WG
Collect Date: 22-AUG-23
Receive Date: 23-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.08	+/-0.881	1.41	+/-0.924	3.00	pCi/L			JE1	09/22/23	0821	2494433	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		1.55	+/-0.921	1.41	+/-0.966		pCi/L			NXL1	09/22/23	1016	2488604	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.466	+/-0.269	0.337	+/-0.280	1.00	pCi/L			LXP1	09/20/23	0819	2482017	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2494433	92.7	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
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Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 22, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPE-R

Client Sample ID: BRA-BRGWC-34S
Sample ID: 634443003
Matrix: WG
Collect Date: 22-AUG-23
Receive Date: 23-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.558	+/-0.907	1.58	+/-0.918	3.00	pCi/L			JE1	09/22/23	0822	2494433	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	1.06	+/-0.955	1.58	+/-0.973		pCi/L			NXL1	09/22/23	1016	2488604	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.499	+/-0.299	0.393	+/-0.321	1.00	pCi/L			LXP1	09/20/23	0819	2482017	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2494433	90.2	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 22, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPE-R

Client Sample ID: BRA-APE-FB-07
Sample ID: 634443004
Matrix: WQ
Collect Date: 22-AUG-23
Receive Date: 23-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.169	+/-0.878	1.62	+/-0.879	3.00	pCi/L			JE1	09/22/23	0822	2494433	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	0.546	+/-0.912	1.62	+/-0.916		pCi/L			NXL1	09/22/23	1016	2488604	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.377	+/-0.246	0.301	+/-0.256	1.00	pCi/L			LXP1	09/20/23	0820	2482017	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2494433	83.7	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 22, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPE-R

Client Sample ID: BRA-BRGWC-37S
Sample ID: 634443005
Matrix: WG
Collect Date: 22-AUG-23
Receive Date: 23-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	-0.458	+/-0.719	1.50	+/-0.720	3.00	pCi/L			JE1	09/22/23	0822	2494433	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	0.578	+/-0.770	1.50	+/-0.781		pCi/L			NXL1	09/22/23	1016	2488604	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.578	+/-0.274	0.309	+/-0.303	1.00	pCi/L			LXP1	09/20/23	0820	2482017	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2494433	87.6	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 22, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPE-R

Client Sample ID: BRA-PZ-13S
Sample ID: 634443006
Matrix: WG
Collect Date: 22-AUG-23
Receive Date: 23-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.273	+/-1.08	1.97	+/-1.08	3.00	pCi/L			JE1	09/22/23	0822	2494433	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	0.823	+/-1.12	1.97	+/-1.12		pCi/L			NXL1	09/22/23	1016	2488604	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.550	+/-0.277	0.335	+/-0.300	1.00	pCi/L			LXP1	09/20/23	0820	2482017	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2494433	72.5	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 634648 GEL Work Order: 634648

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Erin Trent.

Reviewed by Erin B. Trent

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 20, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPE-R

Client Sample ID: BRA-BRGWC-17S
Sample ID: 634648001
Matrix: WG
Collect Date: 23-AUG-23
Receive Date: 24-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.78	+/-1.48	2.33	+/-1.55	3.00	pCi/L			JE1	09/18/23	1426	2485947	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	1.92	+/-1.50	2.33	+/-1.57		pCi/L		1	NXL1	09/20/23	1401	2485949	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.139	+/-0.249	0.448	+/-0.250	1.00	pCi/L			LXP1	09/20/23	0926	2485948	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2485947	59.7	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 20, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPE-R

Client Sample ID: BRA-BRGWC-35S
Sample ID: 634648002
Matrix: WG
Collect Date: 23-AUG-23
Receive Date: 24-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		2.78	+/-1.27	1.59	+/-1.45	3.00	pCi/L			JE1	09/18/23	1141	2485947	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		3.33	+/-1.29	1.59	+/-1.48		pCi/L		1	NXL1	09/20/23	1401	2485949	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.546	+/-0.248	0.238	+/-0.263	1.00	pCi/L			LXP1	09/20/23	0926	2485948	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2485947	56.5	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 20, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPE-R

Client Sample ID: BRA-BRGWC-36S
Sample ID: 634648003
Matrix: WG
Collect Date: 23-AUG-23
Receive Date: 24-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		3.28	+/-1.66	2.40	+/-1.86	3.00	pCi/L			JE1	09/18/23	1141	2485947	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		3.87	+/-1.69	2.40	+/-1.89		pCi/L		1	NXL1	09/20/23	1401	2485949	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.594	+/-0.297	0.328	+/-0.313	1.00	pCi/L			LXP1	09/20/23	0926	2485948	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2485947	57.9	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 20, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPE-R

Client Sample ID: BRA-BRGWC-38S
Sample ID: 634648004
Matrix: WG
Collect Date: 23-AUG-23
Receive Date: 24-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		5.37	+/-2.03	2.73	+/-2.45	3.00	pCi/L			JE1	09/20/23	0823	2485947	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		5.98	+/-2.05	2.73	+/-2.47		pCi/L		1	NXL1	09/20/23	1401	2485949	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.610	+/-0.288	0.246	+/-0.307	1.00	pCi/L			LXP1	09/20/23	0926	2485948	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2485947	51.8	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 20, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPE-R

Client Sample ID: BRA-PZ-70I
Sample ID: 634648005
Matrix: WG
Collect Date: 23-AUG-23
Receive Date: 24-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		3.70	+/-1.64	2.30	+/-1.89	3.00	pCi/L			JE1	09/18/23	1143	2485947	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		4.35	+/-1.67	2.30	+/-1.92		pCi/L		1	NXL1	09/20/23	1401	2485949	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.655	+/-0.330	0.410	+/-0.354	1.00	pCi/L			LXP1	09/20/23	0958	2485948	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2485947	59.4	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 20, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPE-R

Client Sample ID: BRA-APE-FD-05 Project: GPCC00101
Sample ID: 634648006 Client ID: GPCC001
Matrix: WG
Collect Date: 23-AUG-23
Receive Date: 24-AUG-23
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		4.09	+/-1.67	2.27	+/-1.97	3.00	pCi/L			JE1	09/18/23	1143	2485947	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		4.65	+/-1.69	2.27	+/-1.99		pCi/L		1	NXL1	09/20/23	1401	2485949	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.559	+/-0.250	0.204	+/-0.281	1.00	pCi/L			LXP1	09/20/23	0958	2485948	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2485947	58.9	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 20, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPE-R

Client Sample ID: BRA-APE-FB-08
Sample ID: 634648007
Matrix: WQ
Collect Date: 23-AUG-23
Receive Date: 24-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	2.26	+/-1.55	2.41	+/-1.65	3.00	pCi/L			JE1	09/20/23	0823	2485947	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.50	+/-1.56	2.41	+/-1.67		pCi/L		1	NXL1	09/20/23	1401	2485949	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.247	+/-0.194	0.263	+/-0.201	1.00	pCi/L			LXP1	09/20/23	0958	2485948	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2485947	55.4	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 20, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPE-R

Client Sample ID: BRA-APE-EB-09
Sample ID: 634648008
Matrix: WQ
Collect Date: 23-AUG-23
Receive Date: 24-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	2.20	+/-1.48	2.28	+/-1.59	3.00	pCi/L			JE1	09/20/23	0823	2485947	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.86	+/-1.52	2.28	+/-1.63		pCi/L		1	NXL1	09/20/23	1401	2485949	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.662	+/-0.366	0.483	+/-0.384	1.00	pCi/L			LXP1	09/20/23	0958	2485948	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2485947	57.5	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 20, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPE-R

Client Sample ID: BRA-APE-EB-10
Sample ID: 634648009
Matrix: WQ
Collect Date: 23-AUG-23
Receive Date: 24-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.46	+/-1.15	1.79	+/-1.21	3.00	pCi/L			JE1	09/18/23	1142	2485947	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	1.62	+/-1.17	1.79	+/-1.23		pCi/L		1	NXL1	09/20/23	1401	2485949	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.162	+/-0.225	0.390	+/-0.228	1.00	pCi/L			LXP1	09/20/23	0958	2485948	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2485947	57.2	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

QC Summary

Client : **Georgia Power Company, Southern Company**
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia

Contact: **Joju Abraham**

Workorder: **634443**

Report Date: September 22, 2023

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gas Flow										
Batch 2494433										
QC1205520856 634443001 DUP										
Radium-228	U	0.119	U	1.16	pCi/L	0		N/A	JE1	09/22/2308:46
	Uncert:	+/-0.702		+/-0.838						
	TPU:	+/-0.702		+/-0.891						
QC1205520857 LCS										
Radium-228	75.6			76.2	pCi/L		101	(75%-125%)	JE1	09/22/2308:46
	Uncert:			+/-4.33						
	TPU:			+/-19.9						
QC1205520855 MB										
Radium-228				1.38	pCi/L				JE1	09/22/2308:46
	Uncert:			+/-0.802						
	TPU:			+/-0.875						
Rad Ra-226										
Batch 2482017										
QC1205498038 634443001 DUP										
Radium-226	U	0.401	U	0.170	pCi/L	0		N/A	LXP1	09/20/2309:26
	Uncert:	+/-0.326		+/-0.249						
	TPU:	+/-0.337		+/-0.251						
QC1205498040 LCS										
Radium-226	26.9			33.3	pCi/L		124	(75%-125%)	LXP1	09/20/2309:26
	Uncert:			+/-2.02						
	TPU:			+/-5.55						
QC1205498037 MB										
Radium-226			U	0.142	pCi/L				LXP1	09/20/2309:26
	Uncert:			+/-0.184						
	TPU:			+/-0.188						
QC1205498039 634443001 MS										
Radium-226	137 U	0.401		103	pCi/L		75.1	(75%-125%)	LXP1	09/20/2309:26
	Uncert:	+/-0.326		+/-7.23						
	TPU:	+/-0.337		+/-17.8						

Notes:

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

The Qualifiers in this report are defined as follows:

U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported

QC Summary

Workorder: **634443**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time

UI	Gamma Spectroscopy--Uncertain identification
BD	Results are either below the MDC or tracer recovery is low
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
M	M if above MDC and less than LLD
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
FA	Failed analysis.
UJ	Gamma Spectroscopy--Uncertain identification
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
K	Analyte present. Reported value may be biased high. Actual value is expected to be lower.
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.
L	Analyte present. Reported value may be biased low. Actual value is expected to be higher.
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
**	Analyte is a Tracer compound
M	REMP Result > MDC/CL and < RDL
J	See case narrative for an explanation

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
** Indicates analyte is a surrogate/tracer compound.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptence criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

QC Summary

Client : **Georgia Power Company, Southern Company**
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia

Contact: **Joju Abraham**

Workorder: **634648**

Report Date: September 20, 2023

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gas Flow										
Batch 2485947										
QC1205505245 634648001 DUP										
Radium-228	U	1.78		3.83	pCi/L	72.8		(0% - 100%)	JE1	09/18/2314:26
	Uncert:	+/-1.48		+/-1.84						
	TPU:	+/-1.55		+/-2.09						
QC1205505246 LCS										
Radium-228	78.3			73.1	pCi/L		93.4	(75%-125%)	JE1	09/18/2311:42
	Uncert:			+/-5.15						
	TPU:			+/-19.6						
QC1205505244 MB										
Radium-228			U	2.08	pCi/L				JE1	09/18/2314:26
	Uncert:			+/-1.45						
	TPU:			+/-1.54						
Rad Ra-226										
Batch 2485948										
QC1205505248 634648001 DUP										
Radium-226	U	0.139	U	0.237	pCi/L	0		N/A	LXP1	09/20/2309:58
	Uncert:	+/-0.249		+/-0.233						
	TPU:	+/-0.250		+/-0.238						
QC1205505250 LCS										
Radium-226	26.9			27.4	pCi/L		102	(75%-125%)	LXP1	09/20/2310:30
	Uncert:			+/-1.80						
	TPU:			+/-4.71						
QC1205505247 MB										
Radium-226			U	0.316	pCi/L				LXP1	09/20/2309:58
	Uncert:			+/-0.263						
	TPU:			+/-0.271						
QC1205505249 634648001 MS										
Radium-226	122 U	0.139		91.7	pCi/L		75.1	(75%-125%)	LXP1	09/20/2309:58
	Uncert:	+/-0.249		+/-6.79						
	TPU:	+/-0.250		+/-18.5						

Notes:

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

The Qualifiers in this report are defined as follows:

U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported

QC Summary

Workorder: **634648**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time

UI	Gamma Spectroscopy--Uncertain identification
BD	Results are either below the MDC or tracer recovery is low
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
M	M if above MDC and less than LLD
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
FA	Failed analysis.
UJ	Gamma Spectroscopy--Uncertain identification
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
K	Analyte present. Reported value may be biased high. Actual value is expected to be lower.
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.
L	Analyte present. Reported value may be biased low. Actual value is expected to be higher.
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
**	Analyte is a Tracer compound
M	REMP Result > MDC/CL and < RDL
J	See case narrative for an explanation

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
** Indicates analyte is a surrogate/tracer compound.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptence criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Radiochemistry
Technical Case Narrative
Georgia Power Company
SDG #: 634443

Product: **Radium-226+Radium-228 Calculation**
Analytical Method: Calculation
Analytical Procedure: GL-RAD-D-003 REV# 45
Analytical Batch: 2488604

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
634443001	BRA-BRGWC-33S
634443002	BRA-APE-FD-04
634443003	BRA-BRGWC-34S
634443004	BRA-APE-FB-07
634443005	BRA-BRGWC-37S
634443006	BRA-PZ-13S

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **GFPC Ra228, Liquid**
Analytical Method: EPA 904.0/SW846 9320 Modified
Analytical Procedure: GL-RAD-A-063 REV# 5
Analytical Batch: 2494433

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
634443001	BRA-BRGWC-33S
634443002	BRA-APE-FD-04
634443003	BRA-BRGWC-34S
634443004	BRA-APE-FB-07
634443005	BRA-BRGWC-37S
634443006	BRA-PZ-13S
1205520855	Method Blank (MB)
1205520856	634443001(BRA-BRGWC-33S) Sample Duplicate (DUP)
1205520857	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Method Blank Criteria
The blank result (See Below) is greater than the MDC but less than the required detection limit.

Sample	Analyte	Value
1205520855 (MB)	Radium-228	Result: 1.38 pCi/L > MDA: 1.13 pCi/L <= RDL: 3.00 pCi/L

Technical Information

Sample Re-prep/Re-analysis
Samples were reprepped due to high relative percent difference/relative error ratio. The re-analysis is being reported.

Product: **Lucas Cell, Ra226, Liquid**
Analytical Method: EPA 903.1 Modified
Analytical Procedure: GL-RAD-A-008 REV# 15
Analytical Batch: 2482017

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
634443001	BRA-BRGWC-33S
634443002	BRA-APE-FD-04
634443003	BRA-BRGWC-34S
634443004	BRA-APE-FB-07
634443005	BRA-BRGWC-37S
634443006	BRA-PZ-13S
1205498037	Method Blank (MB)
1205498038	634443001(BRA-BRGWC-33S) Sample Duplicate (DUP)
1205498039	634443001(BRA-BRGWC-33S) Matrix Spike (MS)
1205498040	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments

The matrix spike, 1205498039 (BRA-BRGWC-33SMS), aliquot was reduced to conserve sample volume.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Radiochemistry
Technical Case Narrative
Georgia Power Company
SDG #: 634648

Product: **Radium-226+Radium-228 Calculation**
Analytical Method: Calculation
Analytical Procedure: GL-RAD-D-003 REV# 45
Analytical Batch: 2485949

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
634648001	BRA-BRGWC-17S
634648002	BRA-BRGWC-35S
634648003	BRA-BRGWC-36S
634648004	BRA-BRGWC-38S
634648005	BRA-PZ-70I
634648006	BRA-APE-FD-05
634648007	BRA-APE-FB-08
634648008	BRA-APE-EB-09
634648009	BRA-APE-EB-10

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **GFPC Ra228, Liquid**
Analytical Method: EPA 904.0/SW846 9320 Modified
Analytical Procedure: GL-RAD-A-063 REV# 5
Analytical Batch: 2485947

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
634648001	BRA-BRGWC-17S
634648002	BRA-BRGWC-35S
634648003	BRA-BRGWC-36S
634648004	BRA-BRGWC-38S
634648005	BRA-PZ-70I
634648006	BRA-APE-FD-05
634648007	BRA-APE-FB-08
634648008	BRA-APE-EB-09
634648009	BRA-APE-EB-10
1205505244	Method Blank (MB)

1205505245	634648001(BRA-BRGWC-17S) Sample Duplicate (DUP)
1205505246	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Recounts
Sample 1205505244 (MB) was recounted due to a suspected blank false positive. The recount is reported. Samples 1205505245 (BRA-BRGWC-17SDUP) and 634648001 (BRA-BRGWC-17S) were recounted due to high relative percent difference/relative error ratio. The recounts are reported. Samples 634648004 (BRA-BRGWC-38S), 634648007 (BRA-APE-FB-08) and 634648008 (BRA-APE-EB-09) were re-eluted and recounted to verify sample results. The recounts are reported.

Product: **Lucas Cell, Ra226, Liquid**
Analytical Method: EPA 903.1 Modified
Analytical Procedure: GL-RAD-A-008 REV# 15
Analytical Batch: 2485948

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
634648001	BRA-BRGWC-17S
634648002	BRA-BRGWC-35S
634648003	BRA-BRGWC-36S
634648004	BRA-BRGWC-38S
634648005	BRA-PZ-70I
634648006	BRA-APE-FD-05
634648007	BRA-APE-FB-08
634648008	BRA-APE-EB-09
634648009	BRA-APE-EB-10
1205505247	Method Blank (MB)
1205505248	634648001(BRA-BRGWC-17S) Sample Duplicate (DUP)
1205505249	634648001(BRA-BRGWC-17S) Matrix Spike (MS)
1205505250	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments
The matrix spike, 1205505249 (BRA-BRGWC-17SMS), aliquot was reduced to conserve sample volume.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

634441 634443

Page: 1 of 1
Project #:
GEL Quote #:
COC Number (1):
PO Number:

GEL Laboratories LLC
gel.com | Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number:
GEL Project Manager: Erin Trent

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power
Phone #: 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - E
Fax #:
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: T. Gebbia/D. Jensen ACC
Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS, NO3 EPA 300, SM 2540C	Total Carb & Bicarb Alk SM 2320B	NI Metals* EPA 6020; 6010, 7470	NI Radium 226 & 228 SW-846 9315, 9320	Sulfide SM 4500	<-- Preservative Type (6)
BRA- GWC-335	08/22/23	1210	G	N	WG	N	N	8	✓	✓	✓	✓	✓	
BRA- APE-FD-04	08/22/23	—	G	N	WG	N	N	8	✓	✓	✓	✓	✓	
BRA- GWC-345	08/22/23	1435	G	N	WG	N	N	8	✓	✓	✓	✓	✓	
BRA- APE-FB-07	08/22/23	1510	G	N	WQ	N	N	8	✓	✓	✓	✓	✓	
BRA- BRGWC-375	08/22/23	1651	G	N	WG	N	N	8	✓	✓	✓	✓	✓	
BRA- PZ-135	08/22/23	1649	G	N	WG	N	N	8	✓	✓	✓	✓	✓	
BRA-														
BRA-														
BRA-														
BRA-														

Comments
Note: extra sample is required for sample specific QC
Task Code: BRA-CCR-ASSMT-202352

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	8-23-23	0825	1	8/23/23	0825
2	8/23/23	0832	2	8/23/23	832
3	8/23/23	100	3	8/23/23	1300

TAT Requested: Normal: X Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [x] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] Level 1 [x] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg

For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No Cooler Temp: ____ °C

For sample shipping and delivery details, see Sample Receipt & Review form (SRR).

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other

1) Chain of Custody Number = Client Determined

2) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

3) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.

4) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix

5) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1)

6) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

7) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic, Ba = Barium, Cd = Cadmium, Cr = Chromium, Pb = Lead, Hg = Mercury, Se = Selenium, Ag = Silver, MR = Misc. RCRA metals

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW = Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT = Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of soil collected from, odd matrices, etc.)

634444 634643
634448 634447
634443 634450
634441 634444
634446

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: CHP

SDG/AR/COC/Work Order:

Received By: MVH

Date Received: 8.23.2023

Carrier and Tracking Number: Carrier Appreciate: FedEx Express FedEx Ground UPS Field Services Courier Other

Cooler 2-3°C Cooler 4-1°C Cooler 6-1°C
Cooler 1-2°C Cooler 3-1°C Cooler 5-2°C

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation
A) Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant: Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC (or representative shipping papers) indicates radioactive
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM/uR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?		✓	COC (or representative shipping papers) indicates hazardous
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below. PCBs Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)**	✓			Preservation Method: Wet Ice Ice Packs Dry Ice None Other: **all temperatures are recorded in Celsius TEMP:
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR-21 Secondary Temperature Device Serial # (if applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?			✓	Sample ID's and containers affected: BRA-P2-G11, BRA-BRGWA-51, BRA-BRGWA-23S, BRA-P2-BS, BRA-BRGWA-2S, BRA-BRGWA-6S, BRA-BRGWC-32S, BRA-BRGWA-21, BRA-BRGWC-37S, BRA-BRGWC-34S, BRA-BRGWC-30I Sulfide samples didn't hold proper preservation.
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___ (If yes, refer to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___ (If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

BRA-P2-BS, BRA-BRGWA-2S, BRA-BRGWA-6S, BRA-BRGWC-32S, BRA-BRGWA-21, BRA-BRGWC-37S, BRA-BRGWC-34S, BRA-BRGWC-30I Sulfide samples didn't hold proper preservation.

PM (or PMA) review: Initials AT Date 8/25/23 Page 1 of 1

GL-CHL-SR-001 Rev 7

634648

Page: 1 of 1
Project #
GEL Quote #:
COC Number (1):
PO Number:

GEL Laboratories LLC 634615

gel.com | Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power | Phone # 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - E | Fax #
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: T. Cobble, D. Johnson, ACC | Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested (8) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: (R) Radioactive (yes, please supply isotopic info.)	(T) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS, NO3 EPA 300, SM 2540C	Total Carb & Bicarb Alk SM 2320B	Metals * EPA 6020, 6010, 7470	Radium 226 & 228 SW-846 9315, 9320	Sulfide SM 4500	NI	NI	<-- Preservative Type (5)
BRA-BRGWC-175	08/23/23	1405	G	N	WG	N	N	3	✓	✓	✓	✓	✓			
BRA-BRGWC-355	08/23/23	1201	G	N	WG	N	N	4	✓	✓	✓	✓	✓			
BRA-BRGWC-365	08/23/23	1556	G	N	WG	N	N	3	✓	✓	✓	✓	✓			
BRA-BRGWC-385	08/23/23	1212	G	N	WG	N	N	3	✓	✓	✓	✓	✓			
BRA-PZ-52D	08/23/23	1346	G	N	WG	N	N	5	✓	✓	✓		✓			
BRA-PZ-70I	08/23/23	1612	G	N	WG	N	N	3	✓	✓	✓	✓	✓			
BRA-APE-FD-05	08/23/23	—	G	N	WG	N	N	3	✓	✓	✓	✓	✓			
BRA-APE-FB-06	08/23/23	1630	G	N	WQ	N	N	3	✓	✓	✓	✓	✓			
BRA-APE-EB-09	08/23/23	1645	G	N	WQ	N	N	3	✓	✓	✓	✓	✓			
BRA-APE-ED-10	08/23/23	1315	G	N	WQ	N	N	3	✓	✓	✓	✓	✓			

Comments: Note: extra sample is required for sample specific QC
Task_Code: BRA-CCR-ASSMT-2023S2

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	Tyler Bell	8-24-23	0940		8/24/23	940
2		8/24/23	1243		8/24/23	1243
3						

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

TAT Requested: Normal: X Rush: ____ Specify: ____ (Subject to Surcharge)
Fax Results: [ ] Yes [X] No
Select Deliverable: [ ] C of A [ ] QC Summary [ ] Level 1 [X] Level 2 [ ] Level 3 [ ] Level 4
Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Ni,g,Mn,K,Na,Hg
For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No Cooler Temp: ____ °C
Sample Collection Time Zone: [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined
2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite
3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.
4.) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix
5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).
6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic, Hg= Mercury, Ba = Barium, Se= Selenium, Cd = Cadmium, Ag= Silver, Cr = Chromium, MR= Misc. RCRA metals, Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable, CO = Corrosive, RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste (F,K,P and U-listed wastes.) Waste code(s):

Other
OT= Other / Unknown (i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.) Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

634448 634643
634652 634650
634649
634648 634615

GEL | Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	SDG/AR/COC/Work Order:
Received By: EG	Date Received: 8.24.23
Courier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other Cooler 1 - 3° Cooler 2 - 3° Cooler 3 - 3° Cooler 4 - 2° Cooler 5 - 3°

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A) Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	[redacted]
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?		✓	[redacted]
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)*	✓			Preservation Method: Wet Ice Ice Packs Dry Ice None Other: *all temperatures are recorded in Celsius TEMP: See cooler above & below for temps
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR8-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?			✓	Sample ID's and Containers Affected: If Preservation added, Lot#: See continuation form
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___ (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___ (If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

Cooler 6-1
Cooler 7-2
Cooler 8-4
Cooler 9-1

PM (or PMA) review: Initials AT Date 8/28/23 Page 1 of 2

GL-CHL-SR-001 Rev 7

GEL | Laboratories LLC **SAMPLE RECEIPT & REVIEW CONTINUATION FORM**

Client: GPCC Received By: EG Date Received: 8/24/23 SDG/AR/COC/Work Order: _____

BRA-P2-511
BRA-P2-591
BRA-BRGWC-355
BRA-BRGWC-365
BRA-APE-FB-05
BRA-P2-601
BRA-P2-581
BRA-P2-631
BRA-BRGWC-385
BRA-P2-641
BRA-P2-680
BRA-APBUD-FD-02
BRA-P2-500
BRA-BRGWC-50
BRA-APE-FD-05
L> containers for sodium hydroxide/zinc acetate did not hold preservation. Were preserved & placed in 24 hr hold preservation

PM (or PMA) review: Initials AT Date 8/28/23 Page 2 of 2

List of current GEL Certifications as of 20 September 2023

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122023-4
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2022-160
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-23-21
Utah NELAP	SC000122022-37
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

September 08, 2023

Joju Abraham
Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308

Re: Branch CCR Groundwater Compliance APBCD
Work Orders: 634650,634444 and 634768

Dear Joju Abraham:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on August 23, 2023, August 24, 2023 and August 25, 2023. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. Samples "BRA-PZ-51I" "BRA-PZ-60I" "BRA-PZ-58I" "BRA-PZ-63I" "BRA-PZ-64I" "BRA-PZ-68D" "BRA-APBCD-FD-02" "BRA-PZ-50D" "BRA-BRGWC-50" "BRA-PZ-59I" containers for sodium hydroxide/zinc acetate did not hold preservation. Samples were preserved upon receipt and placed on a 24 hour preservation hold. *634650001(BRA-PZ-51I), 634650002(BRA-PZ-58I), 634650003(BRA-PZ-59I), 634650004(BRA-PZ-60I), 634650005(BRA-PZ-63I), 634650006(BRA-PZ-64I), 634650007(BRA-PZ-68D), 634650010(BRA-APBCD-FD-02), 634650011(BRA-BRGWC-50), 634650014(BRA-PZ-50D)*. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Recieved
634444001	BRA-PZ-57I	Ground Water	21/08/23 17:55	23/08/23 13:00
634444002	BRA-PZ-65I	Ground Water	21/08/23 17:45	23/08/23 13:00
634444003	BRA-BRGWA-23S	Ground Water	22/08/23 12:40	23/08/23 13:00
634444004	BRA-BRGWC-30I	Ground Water	22/08/23 15:22	23/08/23 13:00
634444005	BRA-BRGWC-32S	Ground Water	22/08/23 14:20	23/08/23 13:00
634444006	BRA-PZ-61I	Ground Water	22/08/23 16:15	23/08/23 13:00
634444007	BRA-APBCD-FB-01	Water	22/08/23 14:00	23/08/23 13:00
634650001	BRA-PZ-51I	Ground Water	23/08/23 15:00	24/08/23 12:43
634650002	BRA-PZ-58I	Ground Water	23/08/23 15:10	24/08/23 12:43
634650003	BRA-PZ-59I	Ground Water	23/08/23 11:40	24/08/23 12:43
634650004	BRA-PZ-60I	Ground Water	23/08/23 13:25	24/08/23 12:43
634650005	BRA-PZ-63I	Ground Water	23/08/23 16:30	24/08/23 12:43
634650006	BRA-PZ-64I	Ground Water	23/08/23 10:55	24/08/23 12:43

634650007	BRA-PZ-68D	Ground Water	23/08/23 16:08	24/08/23 12:43
634650008	BRA-APBCD-FB-02	Water	23/08/23 14:50	24/08/23 12:43
634650009	BRA-APBCD-FD-01	Ground Water	23/08/23 12:00	24/08/23 12:43
634650010	BRA-APBCD-FD-02	Ground Water	23/08/23 12:00	24/08/23 12:43
634650011	BRA-BRGWC-50	Ground Water	23/08/23 11:00	24/08/23 12:43
634650012	BRA-APBCD-EB-04	Water	23/08/23 11:35	24/08/23 12:43
634650013	BRA-PZ-44	Ground Water	23/08/23 16:40	24/08/23 12:43
634650014	BRA-PZ-50D	Ground Water	23/08/23 12:30	24/08/23 12:43
634768001	BRA-APBCD-FD-03	Ground Water	24/08/23 12:00	25/08/23 08:57
634768002	BRA-APBCD-EB-05	Ground Water	24/08/23 09:55	25/08/23 08:57
634768003	BRA-BRGWC-27I	Ground Water	24/08/23 12:25	25/08/23 08:57
634768004	BRA-BRGWC-45	Ground Water	24/08/23 12:06	25/08/23 08:57
634768005	BRA-PZ-75I	Ground Water	24/08/23 10:51	25/08/23 08:57
634768006	BRA-PZ-74I	Ground Water	24/08/23 14:15	25/08/23 08:57
634768007	BRA-BRGWC-29I	Ground Water	24/08/23 15:20	25/08/23 08:57
634768008	BRA-PZ-51D	Ground Water	24/08/23 11:00	25/08/23 08:57
634768009	BRA-APBCD-FB-03	Ground Water	24/08/23 12:55	25/08/23 08:57
634768010	BRA-APBCD-EB-06	Ground Water	24/08/23 14:00	25/08/23 08:57
634768011	BRA-BRGWC-52I	Ground Water	24/08/23 13:05	25/08/23 08:57
634768012	BRA-BRGWC-47	Ground Water	24/08/23 14:45	25/08/23 08:57
634768013	BRA-BRGWC-25I	Ground Water	24/08/23 16:47	25/08/23 08:57

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Prep Methods and Prep Dates

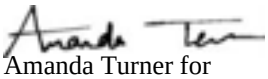
Method	Run Date ID
SW846 3005A	25-AUG-2023
SW846 3005A	29-AUG-2023
SW846 7470A Prep	24-AUG-2023
SW846 7470A Prep	28-AUG-2023

Analysis Methods and Analysis Dates

Method	Run Date ID
EPA 300.0	23-AUG-2023
EPA 300.0	24-AUG-2023
EPA 300.0	25-AUG-2023
EPA 300.0	26-AUG-2023
SM 2320B	01-SEP-2023
SM 2320B	24-AUG-2023
SM 2540C	25-AUG-2023
SM 2540C	29-AUG-2023
SM 2540C	30-AUG-2023
SM 4500-S (2-) D	24-AUG-2023
SM 4500-S (2-) D	25-AUG-2023
SM 4500-S (2-) D	28-AUG-2023
SW846 3005A/6020B	01-SEP-2023
SW846 3005A/6020B	06-SEP-2023
SW846 3005A/6020B	07-SEP-2023
SW846 3005A/6020B	08-SEP-2023
SW846 3005A/6020B	31-AUG-2023
SW846 7470A	25-AUG-2023
SW846 7470A	29-AUG-2023

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4504.

Sincerely,



Amanda Turner for
Erin Trent
Project Manager

Purchase Order: GPC82177-0006
Enclosures

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 634650 GEL Work Order: 634650

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL

J Value is estimated

N/A RPD or %Recovery limits do not apply.

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Erin Trent.

Reviewed by Amanda Tenn

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 634768 GEL Work Order: 634768

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL

J Value is estimated

N/A RPD or %Recovery limits do not apply.

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Erin Trent.

Reviewed by Amanda Tew

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 634444 GEL Work Order: 634444

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL

J Value is estimated

N/A RPD or %Recovery limits do not apply.

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Erin Trent.

Reviewed by Amanda Tew

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 8, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-PZ-51I
Sample ID: 634650001
Matrix: WG
Collect Date: 23-AUG-23 15:00
Receive Date: 24-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		9.43	0.0670	0.200	mg/L		1	LXA2	08/24/23	2002	2482641	1
Fluoride	J	0.0744	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate		1200	13.3	40.0	mg/L		100	LXA2	08/25/23	1742	2482641	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1108	2483666	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/08/23	1317	2482707	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0149	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	J	0.000679	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.0259	0.000300	0.00100	mg/L	1.00	1					
Iron		0.136	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0221	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		11.2	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		43.6	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.430	0.0260	0.0750	mg/L	1.00	5	PRB	09/08/23	1131	2482707	5
Calcium		217	0.400	1.00	mg/L	1.00	5					
Magnesium		133	0.0500	0.150	mg/L	1.00	5					
Manganese		49.9	0.100	0.500	mg/L	1.00	100	PRB	09/08/23	1147	2482707	6
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1860	4.76	20.0	mg/L			CH6	08/29/23	1603	2484234	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/28/23	1257	2483779	8

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 8, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-PZ-51I
Sample ID: 634650001
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		23.5	0.725	2.00	mg/L			JW2	09/01/23	1044	2486265	9
Bicarbonate alkalinity (CaCO3)		23.5	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483665
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482706

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 4500-S (2-) D	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 8, 2023

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-PZ-58I	Project:	GPCC00101
Sample ID:	634650002	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	23-AUG-23 15:10		
Receive Date:	24-AUG-23		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		1.10	0.0330	0.100	mg/L		1	LXA2	08/24/23	2033	2482641	1
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Chloride		11.0	0.335	1.00	mg/L		5	LXA2	08/25/23	1844	2482641	2
Sulfate		949	13.3	40.0	mg/L		100	LXA2	08/25/23	1813	2482641	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1113	2483666	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/08/23	1339	2482707	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0173	0.000670	0.00400	mg/L	1.00	1					
Cadmium		0.00453	0.000300	0.00100	mg/L	1.00	1					
Lead	J	0.000860	0.000500	0.00200	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	J	0.00494	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1	PRB	09/08/23	0250	2482707	6
Lithium		0.0468	0.00300	0.0100	mg/L	1.00	1					
Potassium		7.79	0.0800	0.300	mg/L	1.00	1					
Manganese		31.4	0.100	0.500	mg/L	1.00	100	PRB	09/08/23	1209	2482707	7
Beryllium		0.0328	0.00100	0.00250	mg/L	1.00	5	PRB	09/08/23	1206	2482707	8
Boron		0.429	0.0260	0.0750	mg/L	1.00	5					
Calcium		162	0.400	1.00	mg/L	1.00	5					
Cobalt		0.556	0.00150	0.00500	mg/L	1.00	5					
Iron		52.8	0.165	0.500	mg/L	1.00	5					
Magnesium		85.8	0.0500	0.150	mg/L	1.00	5					
Sodium		34.7	0.400	1.25	mg/L	1.00	5					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1570	4.76	20.0	mg/L			CH6	08/29/23	1603	2484234	9
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/28/23	1257	2483779	10

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Certificate of Analysis

Report Date: September 8, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-PZ-58I
Sample ID: 634650002
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	09/01/23	1046	2486265	11
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482706
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483665

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SM 2540C	
10	SM 4500-S (2-) D	
11	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 8, 2023

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-PZ-59I	Project:	GPCC00101
Sample ID:	634650003	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	23-AUG-23 11:40		
Receive Date:	24-AUG-23		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/28/23	1258	2483779	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-S (2-) D	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 8, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-PZ-60I
Sample ID: 634650004
Matrix: WG
Collect Date: 23-AUG-23 13:25
Receive Date: 24-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		1.32	0.0330	0.100	mg/L		1	LXA2	08/24/23	2104	2482641	1
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate		1830	26.6	80.0	mg/L		200	LXA2	08/25/23	1914	2482641	2
Chloride		25.0	0.670	2.00	mg/L		10	LXA2	08/25/23	1945	2482641	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1115	2483666	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Beryllium		0.0670	0.000200	0.000500	mg/L	1.00	1	PRB	09/08/23	1450	2482707	5
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1	PRB	09/08/23	0253	2482707	6
Iron		1.60	0.0330	0.100	mg/L	1.00	1					
Lithium		0.0936	0.00300	0.0100	mg/L	1.00	1					
Manganese		175	1.00	5.00	mg/L	1.00	1000	PRB	09/08/23	1215	2482707	7
Boron		0.300	0.0520	0.150	mg/L	1.00	10	PRB	09/08/23	1212	2482707	8
Calcium		294	0.800	2.00	mg/L	1.00	10					
Cobalt		3.79	0.00300	0.0100	mg/L	1.00	10					
Magnesium		193	0.100	0.300	mg/L	1.00	10					
Potassium		13.8	0.800	3.00	mg/L	1.00	10					
Sodium		65.3	0.800	2.50	mg/L	1.00	10					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/08/23	1342	2482707	9
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0232	0.000670	0.00400	mg/L	1.00	1					
Cadmium		0.0149	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	J	0.00430	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		2880	23.8	100	mg/L			CH6	08/29/23	1603	2484234	10
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/28/23	1258	2483779	11

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Certificate of Analysis

Report Date: September 8, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-PZ-60I
Sample ID: 634650004
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	09/01/23	1047	2486265	12
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482706
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483665

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SW846 3005A/6020B	
10	SM 2540C	
11	SM 4500-S (2-) D	
12	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 8, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-PZ-63I
Sample ID: 634650005
Matrix: WG
Collect Date: 23-AUG-23 16:30
Receive Date: 24-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		6.81	0.0670	0.200	mg/L		1	JLD1	08/24/23	1833	2482649	1
Fluoride		0.252	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate		294	3.33	10.0	mg/L		25	JLD1	08/25/23	0358	2482649	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1116	2483666	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/08/23	1345	2482707	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0221	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Molybdenum	J	0.000539	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1	PRB	09/08/23	0257	2482707	5
Cobalt		0.0309	0.000300	0.00100	mg/L	1.00	1					
Iron		1.18	0.0330	0.100	mg/L	1.00	1					
Lithium	J	0.00516	0.00300	0.0100	mg/L	1.00	1					
Potassium		7.62	0.0800	0.300	mg/L	1.00	1					
Beryllium	U	ND	0.00200	0.00500	mg/L	1.00	10	PRB	09/08/23	1218	2482707	6
Boron		0.706	0.0520	0.150	mg/L	1.00	10					
Calcium		56.8	0.800	2.00	mg/L	1.00	10					
Magnesium		37.7	0.100	0.300	mg/L	1.00	10					
Manganese		6.97	0.0100	0.0500	mg/L	1.00	10					
Sodium		18.5	0.800	2.50	mg/L	1.00	10					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		503	2.38	10.0	mg/L			CH6	08/29/23	1603	2484234	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/28/23	1259	2483779	8

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Certificate of Analysis

Report Date: September 8, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-PZ-63I
Sample ID: 634650005
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		29.1	0.725	2.00	mg/L			JW2	09/01/23	1049	2486265	9
Bicarbonate alkalinity (CaCO3)		29.1	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482706
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483665

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 4500-S (2-) D	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 8, 2023

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-PZ-64I	Project:	GPCC00101
Sample ID:	634650006	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	23-AUG-23 10:55		
Receive Date:	24-AUG-23		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		0.135	0.0330	0.100	mg/L		1	LXA2	08/24/23	1932	2482641	1
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate		2550	26.6	80.0	mg/L		200	LXA2	08/25/23	2118	2482641	2
Chloride		36.5	1.34	4.00	mg/L		20	LXA2	08/25/23	2149	2482641	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1118	2483666	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Cobalt		10.6	0.300	1.00	mg/L	1.00	1000	PRB	09/08/23	1224	2482707	5
Manganese		380	1.00	5.00	mg/L	1.00	1000					
Calcium		363	0.800	2.00	mg/L	1.00	10	PRB	09/08/23	1221	2482707	6
Magnesium		261	0.100	0.300	mg/L	1.00	10					
Potassium		13.5	0.800	3.00	mg/L	1.00	10					
Sodium		75.3	0.800	2.50	mg/L	1.00	10					
Boron	J	0.00834	0.00520	0.0150	mg/L	1.00	1	PRB	09/08/23	0301	2482707	7
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Iron		3.00	0.0330	0.100	mg/L	1.00	1					
Lithium		0.0126	0.00300	0.0100	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/08/23	1349	2482707	8
Arsenic	J	0.00459	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0177	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium		0.0163	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Beryllium		0.00248	0.000200	0.000500	mg/L	1.00	1	PRB	09/08/23	1454	2482707	9
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		4640	23.8	100	mg/L			CH6	08/29/23	1603	2484234	10
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/28/23	1259	2483779	11

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Certificate of Analysis

Report Date: September 8, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-PZ-64I
Sample ID: 634650006
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		32.9	0.725	2.00	mg/L			JW2	09/01/23	1051	2486265	12
Bicarbonate alkalinity (CaCO3)		32.9	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483665
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482706

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SW846 3005A/6020B	
10	SM 2540C	
11	SM 4500-S (2-) D	
12	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 8, 2023

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-PZ-68D	Project:	GPCC00101
Sample ID:	634650007	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	23-AUG-23 16:08		
Receive Date:	24-AUG-23		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		0.218	0.0330	0.100	mg/L		1	JLD1	08/24/23	1905	2482649	1
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Chloride		23.0	1.68	5.00	mg/L		25	JLD1	08/25/23	0429	2482649	2
Sulfate		298	3.33	10.0	mg/L		25					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1119	2483666	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/08/23	1227	2482707	4
Arsenic	J	0.00342	0.00200	0.00500	mg/L	1.00	1					
Barium		0.107	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Molybdenum		0.00625	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.318	0.0260	0.0750	mg/L	1.00	5	PRB	09/08/23	1231	2482707	5
Calcium		86.4	0.400	1.00	mg/L	1.00	5					
Manganese		0.851	0.00500	0.0250	mg/L	1.00	5					
Potassium		11.4	0.400	1.50	mg/L	1.00	5					
Sodium		59.9	0.400	1.25	mg/L	1.00	5					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1	PRB	09/08/23	0304	2482707	6
Cobalt		0.00106	0.000300	0.00100	mg/L	1.00	1					
Iron		1.04	0.0330	0.100	mg/L	1.00	1					
Lithium	J	0.00399	0.00300	0.0100	mg/L	1.00	1					
Magnesium		20.3	0.0100	0.0300	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		597	2.38	10.0	mg/L			CH6	08/30/23	1542	2484583	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/28/23	1259	2483779	8

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Certificate of Analysis

Report Date: September 8, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-PZ-68D
Sample ID: 634650007
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		122	0.725	2.00	mg/L			JW2	09/01/23	1053	2486265	9
Bicarbonate alkalinity (CaCO3)		122	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482706
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483665

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 4500-S (2-) D	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 8, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-APBCD-FB-02
Sample ID: 634650008
Matrix: WQ
Collect Date: 23-AUG-23 14:50
Receive Date: 24-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	JLD1	08/24/23	1936	2482649	1
Fluoride		0.516	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1121	2483666	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/08/23	1234	2482707	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	J	0.00104	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	J	0.105	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium	J	0.0112	0.0100	0.0300	mg/L	1.00	1					
Manganese	J	0.00124	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		0.370	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			CH6	08/30/23	1542	2484583	4
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/25/23	1056	2482961	5

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Report Date: September 8, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-APBCD-FB-02 Project: GPCC00101
Sample ID: 634650008 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	09/01/23	1056	2486265	6
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483665
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482706

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SM 2540C	
5	SM 4500-S (2-) D	
6	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 8, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-APBCD-FD-01
Sample ID: 634650009
Matrix: WG
Collect Date: 23-AUG-23 12:00
Receive Date: 24-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		1220	26.6	80.0	mg/L		200	JLD1	08/25/23	0532	2482649	1
Chloride		14.7	0.335	1.00	mg/L		5	JLD1	08/25/23	0501	2482649	2
Fluoride		0.583	0.0330	0.100	mg/L		1	JLD1	08/24/23	2007	2482649	3
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1123	2483666	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/08/23	1352	2482707	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0167	0.000670	0.00400	mg/L	1.00	1					
Cadmium		0.00731	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	J	0.00150	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1	PRB	09/08/23	0319	2482707	6
Iron		0.402	0.0330	0.100	mg/L	1.00	1					
Lithium		0.0392	0.00300	0.0100	mg/L	1.00	1					
Potassium		9.96	0.0800	0.300	mg/L	1.00	1					
Beryllium		0.00869	0.00100	0.00250	mg/L	1.00	5	PRB	09/08/23	1243	2482707	7
Boron		0.366	0.0260	0.0750	mg/L	1.00	5					
Calcium		220	0.400	1.00	mg/L	1.00	5					
Cobalt		1.43	0.00150	0.00500	mg/L	1.00	5					
Magnesium		146	0.0500	0.150	mg/L	1.00	5					
Sodium		51.3	0.400	1.25	mg/L	1.00	5					
Manganese		78.2	0.100	0.500	mg/L	1.00	100	PRB	09/08/23	1246	2482707	8
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		2000	23.8	100	mg/L			CH6	08/30/23	1542	2484583	9
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/25/23	1057	2482961	10

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Certificate of Analysis

Report Date: September 8, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-APBCD-FD-01 Project: GPCC00101
Sample ID: 634650009 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		10.9	0.725	2.00	mg/L			JW2	09/01/23	1058	2486265	11
Bicarbonate alkalinity (CaCO3)		10.9	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482706
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483665

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SM 2540C	
10	SM 4500-S (2-) D	
11	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 8, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-APBCD-FD-02
Sample ID: 634650010
Matrix: WG
Collect Date: 23-AUG-23 12:00
Receive Date: 24-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		6.92	0.0670	0.200	mg/L		1	JLD1	08/24/23	2039	2482649	1
Fluoride		0.255	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate		295	3.33	10.0	mg/L		25	JLD1	08/25/23	0603	2482649	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1124	2483666	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/08/23	1355	2482707	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0217	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Molybdenum	J	0.000543	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Beryllium	U	ND	0.00200	0.00500	mg/L	1.00	10	PRB	09/08/23	1249	2482707	5
Boron		0.699	0.0520	0.150	mg/L	1.00	10					
Calcium		53.4	0.800	2.00	mg/L	1.00	10					
Magnesium		36.0	0.100	0.300	mg/L	1.00	10					
Manganese		6.63	0.0100	0.0500	mg/L	1.00	10					
Sodium		17.8	0.800	2.50	mg/L	1.00	10					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1	PRB	09/08/23	0322	2482707	6
Cobalt		0.0300	0.000300	0.00100	mg/L	1.00	1					
Iron		1.16	0.0330	0.100	mg/L	1.00	1					
Lithium	J	0.00494	0.00300	0.0100	mg/L	1.00	1					
Potassium		7.42	0.0800	0.300	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		492	2.38	10.0	mg/L			CH6	08/30/23	1542	2484583	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/28/23	1259	2483779	8

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Certificate of Analysis

Report Date: September 8, 2023

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-APBCD-FD-02	Project:	GPCC00101
Sample ID:	634650010	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		29.7	0.725	2.00	mg/L			JW2	09/01/23	1100	2486265	9
Bicarbonate alkalinity (CaCO3)		29.7	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482706
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483665

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 4500-S (2-) D	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 8, 2023

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-BRGWC-50	Project:	GPCC00101
Sample ID:	634650011	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	23-AUG-23 11:00		
Receive Date:	24-AUG-23		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		14.8	0.335	1.00	mg/L		5	JLD1	08/25/23	0738	2482649	1
Sulfate		1290	26.6	80.0	mg/L		200	JLD1	08/25/23	0809	2482649	2
Fluoride		0.499	0.0330	0.100	mg/L		1	JLD1	08/24/23	2110	2482649	3
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1126	2483666	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/08/23	1358	2482707	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0166	0.000670	0.00400	mg/L	1.00	1					
Cadmium		0.00744	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Manganese		103	0.100	0.500	mg/L	1.00	100	PRB	09/08/23	1255	2482707	6
Beryllium		0.00867	0.00100	0.00250	mg/L	1.00	5	PRB	09/08/23	1252	2482707	7
Boron		0.372	0.0260	0.0750	mg/L	1.00	5					
Calcium		214	0.400	1.00	mg/L	1.00	5					
Cobalt		1.38	0.00150	0.00500	mg/L	1.00	5					
Magnesium		142	0.0500	0.150	mg/L	1.00	5					
Potassium		10.6	0.400	1.50	mg/L	1.00	5					
Sodium		49.9	0.400	1.25	mg/L	1.00	5					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1	PRB	09/08/23	0326	2482707	8
Iron		0.409	0.0330	0.100	mg/L	1.00	1					
Lithium		0.0393	0.00300	0.0100	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		2180	23.8	100	mg/L			CH6	08/30/23	1542	2484583	9
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/28/23	1259	2483779	10

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Certificate of Analysis

Report Date: September 8, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-BRGWC-50 Project: GPCC00101
Sample ID: 634650011 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		11.0	0.725	2.00	mg/L			JW2	09/01/23	1101	2486265	11
Bicarbonate alkalinity (CaCO3)		11.0	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482706
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483665

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SM 2540C	
10	SM 4500-S (2-) D	
11	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 8, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-APBCD-EB-04
Sample ID: 634650012
Matrix: WQ
Collect Date: 23-AUG-23 11:35
Receive Date: 24-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	JLD1	08/24/23	2142	2482649	1
Fluoride		0.503	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1128	2483666	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/08/23	1259	2482707	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	J	0.00138	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	J	0.143	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium	J	0.0165	0.0100	0.0300	mg/L	1.00	1					
Manganese	J	0.00140	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		0.359	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			CH6	08/30/23	1542	2484583	4
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/25/23	1057	2482961	5

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Certificate of Analysis

Report Date: September 8, 2023

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-APBCD-EB-04	Project:	GPCC00101
Sample ID:	634650012	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	09/01/23	1104	2486265	6
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483665
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482706

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SM 2540C	
5	SM 4500-S (2-) D	
6	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 8, 2023

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-PZ-44	Project:	GPCC00101
Sample ID:	634650013	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	23-AUG-23 16:40		
Receive Date:	24-AUG-23		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		49.5	0.665	2.00	mg/L		5	JLD1	08/25/23	1308	2482649	1
Chloride		6.83	0.0670	0.200	mg/L		1	JLD1	08/24/23	2213	2482649	2
Fluoride		0.195	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1133	2483666	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/08/23	1302	2482707	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0555	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		26.5	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0501	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00560	0.00300	0.0100	mg/L	1.00	1					
Magnesium		10.1	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.478	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		2.44	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		11.3	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		1.35	0.0520	0.150	mg/L	1.00	10	PRB	09/08/23	1305	2482707	5
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		184	2.38	10.0	mg/L			CH6	08/30/23	1542	2484583	6
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/25/23	1058	2482961	7

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Certificate of Analysis

Report Date: September 8, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-PZ-44 Project: GPCC00101
Sample ID: 634650013 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		81.3	0.725	2.00	mg/L			JW2	09/01/23	1105	2486265	8
Bicarbonate alkalinity (CaCO3)		81.3	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482706
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483665

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 4500-S (2-) D	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 8, 2023

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-PZ-50D	Project:	GPCC00101
Sample ID:	634650014	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	23-AUG-23 12:30		
Receive Date:	24-AUG-23		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		10.1	0.335	1.00	mg/L		5	JLD1	08/25/23	1340	2482649	1
Sulfate		854	13.3	40.0	mg/L		100	JLD1	08/25/23	1411	2482649	2
Fluoride		0.193	0.0330	0.100	mg/L		1	JLD1	08/24/23	2244	2482649	3
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1134	2483666	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1	PRB	09/08/23	0337	2482707	5
Cobalt		0.00991	0.000300	0.00100	mg/L	1.00	1					
Iron		4.37	0.0330	0.100	mg/L	1.00	1					
Lithium		0.0232	0.00300	0.0100	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/08/23	1401	2482707	6
Arsenic	J	0.00300	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0312	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Beryllium	U	ND	0.00100	0.00250	mg/L	1.00	5	PRB	09/08/23	1308	2482707	7
Boron		0.285	0.0260	0.0750	mg/L	1.00	5					
Calcium		211	0.400	1.00	mg/L	1.00	5					
Magnesium		73.3	0.0500	0.150	mg/L	1.00	5					
Manganese		2.56	0.00500	0.0250	mg/L	1.00	5					
Potassium		12.0	0.400	1.50	mg/L	1.00	5					
Sodium		39.5	0.400	1.25	mg/L	1.00	5					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1360	4.76	20.0	mg/L			CH6	08/30/23	1542	2484583	8
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/28/23	1300	2483779	9

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Report Date: September 8, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-PZ-50D
Sample ID: 634650014
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		72.2	0.725	2.00	mg/L			JW2	09/01/23	1107	2486265	10
Bicarbonate alkalinity (CaCO3)		72.2	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482706
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483665

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 4500-S (2-) D	
10	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 7, 2023

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-APBCD-FD-03	Project:	GPCC00101
Sample ID:	634768001	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	24-AUG-23 12:00		
Receive Date:	25-AUG-23		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		16.4	0.670	2.00	mg/L		10	JLD1	08/26/23	1600	2483105	1
Sulfate		112	1.33	4.00	mg/L		10					
Fluoride		0.198	0.0330	0.100	mg/L		1	JLD1	08/25/23	1644	2483105	2
Nitrate-N	J	0.0476	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1212	2483668	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/06/23	1808	2483979	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0543	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron		0.0442	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		34.5	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00228	0.000300	0.00100	mg/L	1.00	1					
Iron		0.170	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		16.8	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.220	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000375	0.000200	0.00100	mg/L	1.00	1					
Potassium		3.04	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		14.8	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		246	2.38	10.0	mg/L			CH6	08/30/23	1648	2484591	5
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/25/23	1413	2483133	6

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Report Date: September 7, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-APBCD-FD-03 Project: GPCC00101
Sample ID: 634768001 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		45.1	0.725	2.00	mg/L			JW2	09/01/23	1112	2486267	7
Bicarbonate alkalinity (CaCO3)		45.1	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483667
SW846 3005A	ICP-MS 3005A PREP	JM13	08/29/23	1515	2483978

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SM 2540C	
6	SM 4500-S (2-) D	
7	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 7, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-APBCD-EB-05
Sample ID: 634768002
Matrix: WQ
Collect Date: 24-AUG-23 09:55
Receive Date: 25-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	JLD1	08/25/23	1826	2483105	1
Fluoride	J	0.0798	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1213	2483668	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/06/23	1811	2483979	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium	U	ND	0.0100	0.0300	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium	J	0.104	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			CH6	08/30/23	1718	2484594	4
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/25/23	1413	2483133	5

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Certificate of Analysis

Report Date: September 7, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-APBCD-EB-05 Project: GPCC00101
Sample ID: 634768002 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	09/01/23	1112	2486267	6
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	JM13	08/29/23	1515	2483978
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483667

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SM 2540C	
5	SM 4500-S (2-) D	
6	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 7, 2023

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-BRGWC-27I	Project:	GPCC00101
Sample ID:	634768003	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	24-AUG-23 12:25		
Receive Date:	25-AUG-23		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		4.81	0.0670	0.200	mg/L		1	JLD1	08/25/23	1857	2483105	1
Fluoride		0.302	0.0330	0.100	mg/L		1					
Nitrate-N	J	0.0657	0.0330	0.100	mg/L		1					
Sulfate		94.5	1.33	4.00	mg/L		10	JLD1	08/26/23	1631	2483105	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1215	2483668	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		1.25	0.104	0.300	mg/L	1.00	20	PRB	09/06/23	1840	2483979	4
Calcium		74.4	1.60	4.00	mg/L	1.00	20					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/06/23	1815	2483979	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0151	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00601	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0749	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		6.53	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.458	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		4.90	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		16.3	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		309	2.38	10.0	mg/L			CH6	08/30/23	1718	2484594	6
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/28/23	1301	2483779	7

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Certificate of Analysis

Report Date: September 7, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-BRGWC-27I
Sample ID: 634768003
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		35.6	0.725	2.00	mg/L			JW2	09/01/23	1114	2486267	8
Bicarbonate alkalinity (CaCO3)		35.6	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	JM13	08/29/23	1515	2483978
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483667

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 4500-S (2-) D	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 7, 2023

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-BRGWC-45	Project:	GPCC00101
Sample ID:	634768004	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	24-AUG-23 12:06		
Receive Date:	25-AUG-23		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		16.5	0.670	2.00	mg/L		10	JLD1	08/26/23	1702	2483105	1
Sulfate		114	1.33	4.00	mg/L		10					
Fluoride		0.185	0.0330	0.100	mg/L		1	JLD1	08/25/23	1928	2483105	2
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1217	2483668	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/06/23	1855	2483979	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0524	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron		0.0444	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		34.0	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00221	0.000300	0.00100	mg/L	1.00	1					
Iron		0.160	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		16.4	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.211	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000356	0.000200	0.00100	mg/L	1.00	1					
Potassium		3.00	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		14.5	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		242	2.38	10.0	mg/L			CH6	08/30/23	1718	2484594	5
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/25/23	1413	2483133	6

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Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-BRGWC-45 Project: GPCC00101
Sample ID: 634768004 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		45.2	0.725	2.00	mg/L			JW2	09/01/23	1116	2486267	7
Bicarbonate alkalinity (CaCO3)		45.2	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483667
SW846 3005A	ICP-MS 3005A PREP	JM13	08/29/23	1515	2483978

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SM 2540C	
6	SM 4500-S (2-) D	
7	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-PZ-75I
Sample ID: 634768005
Matrix: WG
Collect Date: 24-AUG-23 10:51
Receive Date: 25-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		6.84	0.0670	0.200	mg/L		1	JLD1	08/25/23	2102	2483105	1
Fluoride		0.140	0.0330	0.100	mg/L		1					
Nitrate-N		0.794	0.0330	0.100	mg/L		1					
Sulfate		275	2.66	8.00	mg/L		20	JLD1	08/26/23	1734	2483105	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1218	2483668	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		1.51	0.104	0.300	mg/L	1.00	20	PRB	09/06/23	1902	2483979	4
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/06/23	1858	2483979	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0513	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		47.0	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00105	0.000300	0.00100	mg/L	1.00	1					
Iron		0.464	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00579	0.00300	0.0100	mg/L	1.00	1					
Magnesium		33.8	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.0957	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		5.45	0.0800	0.300	mg/L	1.00	1					
Selenium		0.0696	0.00150	0.00500	mg/L	1.00	1					
Sodium		25.9	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		430	2.38	10.0	mg/L			CH6	08/30/23	1718	2484594	6
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/28/23	1302	2483779	7

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Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-PZ-75I
Sample ID: 634768005
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		27.2	0.725	2.00	mg/L			JW2	09/01/23	1118	2486267	8
Bicarbonate alkalinity (CaCO3)		27.2	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483667
SW846 3005A	ICP-MS 3005A PREP	JM13	08/29/23	1515	2483978

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 4500-S (2-) D	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-PZ-74I
Sample ID: 634768006
Matrix: WG
Collect Date: 24-AUG-23 14:15
Receive Date: 25-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		14.8	1.68	5.00	mg/L		25	JLD1	08/26/23	1805	2483105	1
Sulfate		309	3.33	10.0	mg/L		25					
Fluoride		0.157	0.0330	0.100	mg/L		1	JLD1	08/25/23	2134	2483105	2
Nitrate-N	J	0.0475	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1220	2483668	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/06/23	1906	2483979	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0346	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000590	0.000300	0.00100	mg/L	1.00	1					
Iron		0.148	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00711	0.00300	0.0100	mg/L	1.00	1					
Magnesium		33.4	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.0585	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000597	0.000200	0.00100	mg/L	1.00	1					
Potassium		3.66	0.0800	0.300	mg/L	1.00	1					
Selenium		0.0423	0.00150	0.00500	mg/L	1.00	1					
Sodium		25.9	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		1.47	0.104	0.300	mg/L	1.00	20	PRB	09/06/23	1909	2483979	5
Calcium		69.2	1.60	4.00	mg/L	1.00	20					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		506	2.38	10.0	mg/L			CH6	08/30/23	1718	2484594	6
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/25/23	1415	2483133	7

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Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-PZ-74I
Sample ID: 634768006
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		42.6	0.725	2.00	mg/L			JW2	09/01/23	1122	2486267	8
Bicarbonate alkalinity (CaCO3)		42.6	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	JM13	08/29/23	1515	2483978
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483667

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 4500-S (2-) D	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-BRGWC-29I	Project:	GPCC00101
Sample ID:	634768007	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	24-AUG-23 15:20		
Receive Date:	25-AUG-23		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		288	3.33	10.0	mg/L		25	JLD1	08/26/23	1837	2483105	1
Chloride		6.08	0.0670	0.200	mg/L		1	JLD1	08/25/23	2205	2483105	2
Fluoride	J	0.0849	0.0330	0.100	mg/L		1					
Nitrate-N		0.297	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1222	2483668	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		1.34	0.104	0.300	mg/L	1.00	20	PRB	09/06/23	1924	2483979	4
Calcium		71.4	1.60	4.00	mg/L	1.00	20					
Manganese		1.38	0.0200	0.100	mg/L	1.00	20					
Sodium		18.2	0.0800	0.250	mg/L	1.00	1	PRB	09/07/23	1036	2483979	5
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/06/23	1920	2483979	6
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0174	0.000670	0.00400	mg/L	1.00	1					
Beryllium		0.00113	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00724	0.000300	0.00100	mg/L	1.00	1					
Iron		23.3	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00349	0.00300	0.0100	mg/L	1.00	1					
Magnesium		8.02	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		9.76	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		418	2.38	10.0	mg/L			CH6	08/30/23	1718	2484594	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/28/23	1302	2483779	8

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Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-BRGWC-29I
Sample ID: 634768007
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	09/01/23	1124	2486267	9
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483667
SW846 3005A	ICP-MS 3005A PREP	JM13	08/29/23	1515	2483978

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 4500-S (2-) D	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-PZ-51D	Project:	GPCC00101
Sample ID:	634768008	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	24-AUG-23 11:00		
Receive Date:	25-AUG-23		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		22.2	2.68	8.00	mg/L		40	HXC1	08/25/23	2133	2483150	1
Sulfate		346	5.32	16.0	mg/L		40					
Fluoride		0.395	0.0330	0.100	mg/L		1	HXC1	08/25/23	1439	2483150	2
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1223	2483668	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/06/23	1927	2483979	4
Arsenic	J	0.00408	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0448	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron		0.0387	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000427	0.000300	0.00100	mg/L	1.00	1					
Iron		1.82	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00667	0.00300	0.0100	mg/L	1.00	1					
Magnesium		26.1	0.0100	0.0300	mg/L	1.00	1					
Molybdenum		0.00142	0.000200	0.00100	mg/L	1.00	1					
Potassium		11.3	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Sodium		52.2	1.60	5.00	mg/L	1.00	20	PRB	09/07/23	1038	2483979	5
Calcium		120	1.60	4.00	mg/L	1.00	20	PRB	09/06/23	1931	2483979	6
Manganese		1.34	0.0200	0.100	mg/L	1.00	20					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		638	4.76	20.0	mg/L			CH6	08/30/23	1718	2484594	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide		0.192	0.0330	0.100	mg/L		1	JW2	08/25/23	1416	2483133	8

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Certificate of Analysis

Report Date: September 7, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-PZ-51D
Sample ID: 634768008
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		134	0.725	2.00	mg/L			JW2	09/01/23	1125	2486267	9
Bicarbonate alkalinity (CaCO3)		134	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483667
SW846 3005A	ICP-MS 3005A PREP	JM13	08/29/23	1515	2483978

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 4500-S (2-) D	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 7, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-APBCD-FB-03
Sample ID: 634768009
Matrix: WQ
Collect Date: 24-AUG-23 12:55
Receive Date: 25-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	HXC1	08/25/23	1510	2483150	1
Fluoride		0.233	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1225	2483668	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/06/23	1935	2483979	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium	U	ND	0.0100	0.0300	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Sodium	J	0.185	0.0800	0.250	mg/L	1.00	1	PRB	09/07/23	1040	2483979	4
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			CH6	08/30/23	1718	2484594	5
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/25/23	1416	2483133	6

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Certificate of Analysis

Report Date: September 7, 2023

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-APBCD-FB-03	Project:	GPCC00101
Sample ID:	634768009	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	09/01/23	1129	2486267	7
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483667
SW846 3005A	ICP-MS 3005A PREP	JM13	08/29/23	1515	2483978

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	
6	SM 4500-S (2-) D	
7	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 7, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-APBCD-EB-06
Sample ID: 634768010
Matrix: WQ
Collect Date: 24-AUG-23 14:00
Receive Date: 25-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		0.282	0.0670	0.200	mg/L		1	HXC1	08/25/23	1541	2483150	1
Fluoride		0.435	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1227	2483668	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Calcium	J	0.115	0.0800	0.200	mg/L	1.00	1	PRB	09/07/23	1042	2483979	3
Sodium		0.352	0.0800	0.250	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/06/23	1938	2483979	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	J	0.000812	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium	J	0.0180	0.0100	0.0300	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			CH6	08/30/23	1718	2484594	5
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/25/23	1417	2483133	6

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Certificate of Analysis

Report Date: September 7, 2023

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-APBCD-EB-06	Project:	GPCC00101
Sample ID:	634768010	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	09/01/23	1130	2486267	7
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	JM13	08/29/23	1515	2483978
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483667

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	
6	SM 4500-S (2-) D	
7	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 7, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-BRGWC-52I
Sample ID: 634768011
Matrix: WG
Collect Date: 24-AUG-23 13:05
Receive Date: 25-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		150	1.33	4.00	mg/L		10	HXC1	08/25/23	2204	2483150	1
Fluoride	J	0.188	0.0660	0.200	mg/L		2	HXC1	08/25/23	2234	2483150	2
Chloride		6.28	0.0670	0.200	mg/L		1	HXC1	08/25/23	1612	2483150	3
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1232	2483668	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		1.87	0.104	0.300	mg/L	1.00	20	PRB	09/06/23	1945	2483979	5
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/06/23	1942	2483979	6
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0415	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		37.4	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000317	0.000300	0.00100	mg/L	1.00	1					
Iron		0.956	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0131	0.00300	0.0100	mg/L	1.00	1					
Magnesium		18.1	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.549	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000782	0.000200	0.00100	mg/L	1.00	1					
Potassium		4.65	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Sodium		19.0	0.0800	0.250	mg/L	1.00	1	PRB	09/07/23	1044	2483979	7
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		281	2.38	10.0	mg/L			CH6	08/30/23	1718	2484594	8
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/25/23	1418	2483133	9

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Certificate of Analysis

Report Date: September 7, 2023

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-BRGWC-52I	Project:	GPCC00101
Sample ID:	634768011	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		53.3	0.725	2.00	mg/L			JW2	09/01/23	1133	2486267	10
Bicarbonate alkalinity (CaCO3)		53.3	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	JM13	08/29/23	1515	2483978
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483667

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 4500-S (2-) D	
10	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 7, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-BRGWC-47
Sample ID: 634768012
Matrix: WG
Collect Date: 24-AUG-23 14:45
Receive Date: 25-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		4.67	0.0670	0.200	mg/L		1	HXC1	08/25/23	1643	2483150	1
Fluoride		0.243	0.0330	0.100	mg/L		1					
Nitrate-N		0.117	0.0330	0.100	mg/L		1					
Sulfate		1300	26.6	80.0	mg/L		200	HXC1	08/25/23	2305	2483150	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1233	2483668	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/06/23	1956	2483979	4
Arsenic	J	0.00380	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0280	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron		0.291	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0532	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.00873	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000296	0.000200	0.00100	mg/L	1.00	1					
Potassium		11.9	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.689	0.0520	0.150	mg/L	1.00	10	PRB	09/06/23	2000	2483979	5
Calcium		347	0.800	2.00	mg/L	1.00	10					
Magnesium		133	0.100	0.300	mg/L	1.00	10					
Sodium		44.2	0.0800	0.250	mg/L	1.00	1	PRB	09/07/23	1046	2483979	6
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1970	23.8	100	mg/L			CH6	08/30/23	1718	2484594	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/25/23	1418	2483133	8

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Certificate of Analysis

Report Date: September 7, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-BRGWC-47 Project: GPCC00101
Sample ID: 634768012 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		27.3	0.725	2.00	mg/L			JW2	09/01/23	1135	2486267	9
Bicarbonate alkalinity (CaCO3)		27.3	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483667
SW846 3005A	ICP-MS 3005A PREP	JM13	08/29/23	1515	2483978

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 4500-S (2-) D	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 7, 2023

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-BRGWC-25I	Project:	GPCC00101
Sample ID:	634768013	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	24-AUG-23 16:47		
Receive Date:	25-AUG-23		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		8.47	0.0670	0.200	mg/L		1	HXC1	08/25/23	1726	2483150	1
Fluoride		0.250	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate		174	2.66	8.00	mg/L		20	HXC1	08/25/23	2336	2483150	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1235	2483668	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/06/23	2004	2483979	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0271	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00343	0.000300	0.00100	mg/L	1.00	1					
Iron		0.101	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		23.4	0.0100	0.0300	mg/L	1.00	1					
Molybdenum		0.00141	0.000200	0.00100	mg/L	1.00	1					
Potassium		4.79	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		1.95	0.104	0.300	mg/L	1.00	20	PRB	09/06/23	2007	2483979	5
Calcium		69.6	1.60	4.00	mg/L	1.00	20					
Manganese		2.14	0.0200	0.100	mg/L	1.00	20					
Sodium		20.6	0.0800	0.250	mg/L	1.00	1	PRB	09/07/23	1048	2483979	6
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		354	2.38	10.0	mg/L			CH6	08/30/23	1718	2484594	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/25/23	1419	2483133	8

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Certificate of Analysis

Report Date: September 7, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-BRGWC-25I
Sample ID: 634768013
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		98.8	0.725	2.00	mg/L			JW2	09/01/23	1137	2486267	9
Bicarbonate alkalinity (CaCO3)		98.8	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483667
SW846 3005A	ICP-MS 3005A PREP	JM13	08/29/23	1515	2483978

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 4500-S (2-) D	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 6, 2023

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-PZ-57I	Project:	GPCC00101
Sample ID:	634444001	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	21-AUG-23 17:55		
Receive Date:	23-AUG-23		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/24/23	1741	2481696	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-S (2-) D	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 6, 2023

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-PZ-65I	Project:	GPCC00101
Sample ID:	634444002	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	21-AUG-23 17:45		
Receive Date:	23-AUG-23		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/24/23	1742	2481696	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-S (2-) D	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 6, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-BRGWA-23S
Sample ID: 634444003
Matrix: WG
Collect Date: 22-AUG-23 12:40
Receive Date: 23-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		2.41	0.0670	0.200	mg/L		1	JLD1	08/23/23	1959	2481584	1
Fluoride		0.114	0.0330	0.100	mg/L		1					
Nitrate-N		0.212	0.0330	0.100	mg/L		1					
Sulfate		11.3	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/25/23	1209	2482624	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Manganese	J	0.00405	0.00100	0.00500	mg/L	1.00	1	PRB	09/01/23	0916	2482703	3
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	08/31/23	2308	2482703	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0434	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron		0.0390	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		5.95	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0877	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00596	0.00300	0.0100	mg/L	1.00	1					
Magnesium		3.18	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		1.81	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		8.63	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		70.0	2.38	10.0	mg/L			CH6	08/25/23	1010	2482655	5
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/24/23	1742	2481696	6

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Report Date: September 6, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-BRGWA-23S
Sample ID: 634444003
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		32.9	0.725	2.00	mg/L			JW2	08/24/23	1610	2482476	7
Bicarbonate alkalinity (CaCO3)		32.9	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482702
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/24/23	1200	2482623

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	
6	SM 4500-S (2-) D	
7	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 6, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-BRGWC-30I
Sample ID: 634444004
Matrix: WG
Collect Date: 22-AUG-23 15:22
Receive Date: 23-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		3.35	0.0670	0.200	mg/L		1	JLD1	08/23/23	2030	2481584	1
Fluoride		0.116	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate		1250	13.3	40.0	mg/L		100	JLD1	08/24/23	1118	2481584	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/25/23	1211	2482624	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		2.05	0.104	0.300	mg/L	1.00	20	PRB	09/01/23	0918	2482703	4
Calcium		414	1.60	4.00	mg/L	1.00	20					
Magnesium		63.4	0.200	0.600	mg/L	1.00	20					
Manganese		1.40	0.0200	0.100	mg/L	1.00	20					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	08/31/23	2312	2482703	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0400	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00183	0.000300	0.00100	mg/L	1.00	1					
Iron		0.992	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0253	0.00300	0.0100	mg/L	1.00	1					
Molybdenum		0.00111	0.000200	0.00100	mg/L	1.00	1					
Potassium		6.06	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		30.7	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1920	4.76	20.0	mg/L			CH6	08/25/23	1010	2482655	6
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/24/23	1743	2481696	7

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Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-BRGWC-30I
Sample ID: 634444004
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		126	0.725	2.00	mg/L			JW2	08/24/23	1612	2482476	8
Bicarbonate alkalinity (CaCO3)		126	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/24/23	1200	2482623
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482702

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 4500-S (2-) D	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 6, 2023

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-BRGWC-32S	Project:	GPCC00101
Sample ID:	634444005	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	22-AUG-23 14:20		
Receive Date:	23-AUG-23		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		256	3.33	10.0	mg/L		25	JLD1	08/24/23	1150	2481584	1
Chloride		4.30	0.0670	0.200	mg/L		1	JLD1	08/23/23	2102	2481584	2
Fluoride	J	0.0477	0.0330	0.100	mg/L		1					
Nitrate-N		0.184	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/25/23	1216	2482624	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	08/31/23	2315	2482703	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0243	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		45.1	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0935	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00392	0.00300	0.0100	mg/L	1.00	1					
Magnesium		29.7	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		2.03	0.0800	0.300	mg/L	1.00	1					
Selenium		0.210	0.00150	0.00500	mg/L	1.00	1					
Sodium		26.1	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Manganese	J	0.00207	0.00100	0.00500	mg/L	1.00	1	PRB	09/01/23	0920	2482703	5
Boron		1.13	0.0520	0.150	mg/L	1.00	10	PRB	09/01/23	0922	2482703	6
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		412	2.38	10.0	mg/L			CH6	08/25/23	1010	2482655	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/24/23	1744	2481696	8

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Report Date: September 6, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-BRGWC-32S
Sample ID: 634444005
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		28.6	0.725	2.00	mg/L			JW2	08/24/23	1615	2482476	9
Bicarbonate alkalinity (CaCO3)		28.6	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/24/23	1200	2482623
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482702

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 4500-S (2-) D	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 6, 2023

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-PZ-61I	Project:	GPCC00101
Sample ID:	634444006	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	22-AUG-23 16:15		
Receive Date:	23-AUG-23		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		1440	26.6	80.0	mg/L		200	HXC1	08/24/23	1638	2481608	1
Chloride		15.7	0.335	1.00	mg/L		5	HXC1	08/25/23	0258	2481608	2
Fluoride		0.188	0.0330	0.100	mg/L		1	HXC1	08/23/23	1911	2481608	3
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/25/23	1218	2482624	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Manganese		107	0.500	2.50	mg/L	1.00	500	PRB	09/01/23	0928	2482703	5
Sodium		59.6	0.800	2.50	mg/L	1.00	10	PRB	09/01/23	1032	2482703	6
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	08/31/23	2319	2482703	7
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0127	0.000670	0.00400	mg/L	1.00	1					
Beryllium		0.00145	0.000200	0.000500	mg/L	1.00	1					
Cadmium	J	0.000496	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.757	0.000300	0.00100	mg/L	1.00	1					
Iron		0.348	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0106	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		6.30	0.0800	0.300	mg/L	1.00	1					
Selenium	J	0.00483	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.331	0.0260	0.0750	mg/L	1.00	5	PRB	09/01/23	0951	2482703	8
Calcium		209	0.400	1.00	mg/L	1.00	5					
Magnesium		172	0.0500	0.150	mg/L	1.00	5					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		2220	4.76	20.0	mg/L			CH6	08/25/23	1010	2482655	9
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/24/23	1744	2481696	10

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2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 6, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-PZ-61I
Sample ID: 634444006
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		11.3	0.725	2.00	mg/L			JW2	08/24/23	1616	2482476	11
Bicarbonate alkalinity (CaCO3)		11.3	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482702
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/24/23	1200	2482623

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SM 2540C	
10	SM 4500-S (2-) D	
11	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 6, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-APBCD-FB-01
Sample ID: 634444007
Matrix: WQ
Collect Date: 22-AUG-23 14:00
Receive Date: 23-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		0.388	0.0330	0.100	mg/L		1	HXC1	08/25/23	0227	2481608	1
Sulfate	U	ND	0.133	0.400	mg/L		1					
Chloride	U	ND	0.0670	0.200	mg/L		1	HXC1	08/23/23	1941	2481608	2
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/25/23	1219	2482624	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	08/31/23	2330	2482703	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	J	0.000729	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron	J	0.00673	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium	J	0.0283	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		0.291	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1	PRB	09/01/23	0934	2482703	5
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			CH6	08/25/23	1010	2482655	6
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/24/23	1745	2481696	7

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Certificate of Analysis

Report Date: September 6, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-APBCD-FB-01 Project: GPCC00101
Sample ID: 634444007 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	08/24/23	1618	2482476	8
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/24/23	1200	2482623
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482702

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 4500-S (2-) D	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

QC Summary

Report Date: September 7, 2023

Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia

Contact: **Joju Abraham**

Workorder: **634768**

Parmname	NOM		Sample	Qual	QC	Units	RPD%		REC%	Range	Anlst	Date Time
Ion Chromatography												
Batch 2483105												
QC1205499912 634768007 DUP												
Chloride			6.08		5.97	mg/L	1.71			(0%-20%)	JLD1	08/25/23 22:37
Fluoride		J	0.0849	J	0.0881	mg/L	3.7	^		(+/-0.100)		
Nitrate-N			0.297		0.293	mg/L	1.36	^		(+/-0.100)		
Sulfate			288		292	mg/L	1.47			(0%-20%)		08/26/23 19:08
QC1205499911 LCS												
Chloride	5.00				4.84	mg/L			96.7	(90%-110%)		08/26/23 00:42
Fluoride	2.50				2.57	mg/L			103	(90%-110%)		
Nitrate-N	2.50				2.40	mg/L			96	(90%-110%)		
Sulfate	10.0				9.88	mg/L			98.8	(90%-110%)		
QC1205499910 MB												
Chloride				U	ND	mg/L						08/26/23 00:11
Fluoride				U	ND	mg/L						
Nitrate-N				U	ND	mg/L						
Sulfate				U	ND	mg/L						
QC1205499913 634768007 PS												
Chloride	5.00		6.08		11.6	mg/L			110	(90%-110%)		08/25/23 23:08

QC Summary

Workorder: **634768**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography											
Batch 2483105											
Fluoride	2.50	J	0.0849		2.82	mg/L		109	(90%-110%)	JLD1	08/25/23 23:08
Nitrate-N	2.50		0.297		2.74	mg/L		97.6	(90%-110%)		
Sulfate	10.0		11.5		21.8	mg/L		103	(90%-110%)		08/26/23 19:39
Batch 2483150											
QC1205499980 634784001 DUP											
Chloride			4.43		4.44	mg/L	0.11		(0%-20%)	HXC1	08/25/23 18:28
Fluoride			0.334		0.337	mg/L	0.983 ^		(+/-0.100)		
Nitrate-N		J	0.0807	J	0.0778	mg/L	3.66 ^		(+/-0.100)		
Sulfate			293		294	mg/L	0.0981		(0%-20%)		08/26/23 00:38
QC1205499979 LCS											
Chloride	5.00				4.79	mg/L		95.9	(90%-110%)		08/25/23 21:02
Fluoride	2.50				2.49	mg/L		99.6	(90%-110%)		
Nitrate-N	2.50				2.38	mg/L		95.4	(90%-110%)		
Sulfate	10.0				9.79	mg/L		97.9	(90%-110%)		
QC1205499978 MB											
Chloride				U	ND	mg/L					08/25/23 19:29
Fluoride				U	ND	mg/L					
Nitrate-N				U	ND	mg/L					

QC Summary

Workorder: **634768**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography											
Batch 2483150											
Sulfate				U	ND	mg/L				HXC1	08/25/23 19:29
QC1205499981 634784001 PS											
Chloride	5.00		4.43		9.90	mg/L		109	(90%-110%)		08/25/23 18:59
Fluoride	2.50		0.334		2.76	mg/L		97	(90%-110%)		
Nitrate-N	2.50	J	0.0807		2.45	mg/L		94.7	(90%-110%)		
Sulfate	10.0		7.33		17.7	mg/L		103	(90%-110%)		08/26/23 01:09
Metals Analysis - ICPMS											
Batch 2483979											
QC1205501592 LCS											
Antimony	0.0500				0.0501	mg/L		100	(80%-120%)	PRB	09/06/23 18:04
Arsenic	0.0500				0.0507	mg/L		101	(80%-120%)		
Barium	0.0500				0.0497	mg/L		99.5	(80%-120%)		
Beryllium	0.0500				0.0581	mg/L		116	(80%-120%)		
Boron	0.100				0.110	mg/L		110	(80%-120%)		
Cadmium	0.0500				0.0516	mg/L		103	(80%-120%)		
Calcium	2.00				2.10	mg/L		105	(80%-120%)		
Chromium	0.0500				0.0509	mg/L		102	(80%-120%)		
Cobalt	0.0500				0.0507	mg/L		101	(80%-120%)		

QC Summary

Workorder: **634768**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2483979										
Iron	2.00			2.01	mg/L		101	(80%-120%)	PRB	09/06/23 18:04
Lead	0.0500			0.0517	mg/L		103	(80%-120%)		
Lithium	0.0500			0.0563	mg/L		113	(80%-120%)		
Magnesium	2.00			2.08	mg/L		104	(80%-120%)		
Manganese	0.0500			0.0498	mg/L		99.6	(80%-120%)		
Molybdenum	0.0500			0.0532	mg/L		106	(80%-120%)		
Potassium	2.00			2.02	mg/L		101	(80%-120%)		
Selenium	0.0500			0.0495	mg/L		98.9	(80%-120%)		
Sodium	2.00			2.25	mg/L		112	(80%-120%)		
Thallium	0.0500			0.0496	mg/L		99.2	(80%-120%)		
QC1205501591 MB										
Antimony			U	ND	mg/L					09/06/23 18:00
Arsenic			U	ND	mg/L					
Barium			U	ND	mg/L					
Beryllium			U	ND	mg/L					
Boron			U	ND	mg/L					

QC Summary

Workorder: **634768**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2483979										
Cadmium			U	ND	mg/L				PRB	09/06/23 18:00
Calcium			U	ND	mg/L					
Chromium			U	ND	mg/L					
Cobalt			U	ND	mg/L					
Iron			U	ND	mg/L					
Lead			U	ND	mg/L					
Lithium			U	ND	mg/L					
Magnesium			U	ND	mg/L					
Manganese			U	ND	mg/L					
Molybdenum			U	ND	mg/L					
Potassium			U	ND	mg/L					
Selenium			U	ND	mg/L					
Sodium			U	ND	mg/L					
Thallium			U	ND	mg/L					
QC1205501593 634768003 MS										
Antimony	0.0500	U	ND	0.0513	mg/L		103	(75%-125%)		09/06/23 18:18

QC Summary

Workorder: **634768**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2483979											
Arsenic	0.0500	U	ND		0.0514	mg/L		99.8	(75%-125%)	PRB	09/06/23 18:18
Barium	0.0500		0.0151		0.0634	mg/L		96.5	(75%-125%)		
Beryllium	0.0500	U	ND		0.0551	mg/L		110	(75%-125%)		
Boron	0.100		1.25		1.39	mg/L		N/A	(75%-125%)		09/06/23 18:44
Cadmium	0.0500	U	ND		0.0492	mg/L		98.3	(75%-125%)		09/06/23 18:18
Calcium	2.00		74.4		76.1	mg/L		N/A	(75%-125%)		09/06/23 18:44
Chromium	0.0500	U	ND		0.0497	mg/L		99	(75%-125%)		09/06/23 18:18
Cobalt	0.0500		0.00601		0.0548	mg/L		97.6	(75%-125%)		
Iron	2.00	J	0.0749		2.05	mg/L		98.8	(75%-125%)		
Lead	0.0500	U	ND		0.0503	mg/L		101	(75%-125%)		
Lithium	0.0500	U	ND		0.0547	mg/L		107	(75%-125%)		
Magnesium	2.00		6.53		8.41	mg/L		94.2	(75%-125%)		
Manganese	0.0500		0.458		0.511	mg/L		N/A	(75%-125%)		
Molybdenum	0.0500	U	ND		0.0528	mg/L		105	(75%-125%)		
Potassium	2.00		4.90		6.94	mg/L		102	(75%-125%)		

QC Summary

Workorder: **634768**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2483979											
Selenium	0.0500	U	ND		0.0488	mg/L		97.5	(75%-125%)	PRB	09/06/23 18:18
Sodium	2.00		16.3		18.1	mg/L		N/A	(75%-125%)		
Thallium	0.0500	U	ND		0.0490	mg/L		98	(75%-125%)		
QC1205501594 634768003 MSD											
Antimony	0.0500	U	ND		0.0500	mg/L	2.65	99.9	(0%-20%)		09/06/23 18:22
Arsenic	0.0500	U	ND		0.0495	mg/L	3.85	96	(0%-20%)		
Barium	0.0500		0.0151		0.0615	mg/L	3	92.7	(0%-20%)		
Beryllium	0.0500	U	ND		0.0552	mg/L	0.165	110	(0%-20%)		
Boron	0.100		1.25		1.36	mg/L	2.5	N/A	(0%-20%)		09/06/23 18:47
Cadmium	0.0500	U	ND		0.0481	mg/L	2.27	96.1	(0%-20%)		09/06/23 18:22
Calcium	2.00		74.4		74.0	mg/L	2.8	N/A	(0%-20%)		09/06/23 18:47
Chromium	0.0500	U	ND		0.0482	mg/L	3.1	96	(0%-20%)		09/06/23 18:22
Cobalt	0.0500		0.00601		0.0529	mg/L	3.54	93.8	(0%-20%)		
Iron	2.00	J	0.0749		1.96	mg/L	4.48	94.3	(0%-20%)		
Lead	0.0500	U	ND		0.0491	mg/L	2.44	98.1	(0%-20%)		
Lithium	0.0500	U	ND		0.0532	mg/L	2.78	104	(0%-20%)		

QC Summary

Workorder: **634768**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2483979											
Magnesium	2.00		6.53		8.23	mg/L	2.18	85.2	(0%-20%)	PRB	09/06/23 18:22
Manganese	0.0500		0.458		0.493	mg/L	3.49	N/A	(0%-20%)		
Molybdenum	0.0500	U	ND		0.0513	mg/L	2.83	102	(0%-20%)		
Potassium	2.00		4.90		6.74	mg/L	2.93	92.1	(0%-20%)		
Selenium	0.0500	U	ND		0.0468	mg/L	4.28	93.4	(0%-20%)		
Sodium	2.00		16.3		17.9	mg/L	0.949	N/A	(0%-20%)		
Thallium	0.0500	U	ND		0.0473	mg/L	3.67	94.4	(0%-20%)		
QC1205501595 634768003 SDILT											
Antimony		U	ND	U	ND	ug/L	N/A		(0%-20%)		09/06/23 18:29
Arsenic		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Barium			15.1	J	3.20	ug/L	5.84		(0%-20%)		
Beryllium		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Boron			62.7	J	13.1	ug/L	4.57		(0%-20%)		09/06/23 18:51
Cadmium		U	ND	U	ND	ug/L	N/A		(0%-20%)		09/06/23 18:29
Calcium			3720		786	ug/L	5.58		(0%-20%)		09/06/23 18:51
Chromium		U	ND	U	ND	ug/L	N/A		(0%-20%)		09/06/23 18:29

QC Summary

Workorder: **634768**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2483979										
Cobalt		6.01		1.25	ug/L	4.24		(0%-20%)	PRB	09/06/23 18:29
Iron	J	74.9	U	ND	ug/L	N/A		(0%-20%)		
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Lithium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Magnesium		6530		1280	ug/L	1.77		(0%-20%)		
Manganese		458		91.7	ug/L	.114		(0%-20%)		
Molybdenum	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Potassium		4900		968	ug/L	1.19		(0%-20%)		
Selenium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Sodium		16300		3340	ug/L	2.56		(0%-20%)		
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Metals Analysis-Mercury										
Batch 2483668										
QC1205500965 634563009 DUP										
Mercury	U	ND	U	ND	mg/L	N/A			AXS5	08/29/23 11:59
QC1205500964 LCS										
Mercury	0.00200			0.00214	mg/L		107	(80%-120%)		08/29/23 11:56
QC1205500963 MB										
Mercury			U	ND	mg/L					08/29/23 11:54

QC Summary

Workorder: 634768

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis-Mercury												
Batch 2483668												
QC1205500966 634563009 MS												
Mercury	0.00200	U	ND		0.00211	mg/L		106	(75%-125%)	AXS5	08/29/23	12:00
QC1205500967 634563009 SDILT												
Mercury		U	ND	U	ND	ug/L	N/A		(0%-10%)		08/29/23	12:02
Solids Analysis												
Batch 2484591												
QC1205502656 634511009 DUP												
Total Dissolved Solids			190		201	mg/L	5.63*		(0%-5%)	CH6	08/30/23	16:48
QC1205502655 LCS												
Total Dissolved Solids	300				301	mg/L		100	(95%-105%)		08/30/23	16:48
QC1205502654 MB												
Total Dissolved Solids				U	ND	mg/L					08/30/23	16:48
Batch 2484594												
QC1205502665 634784001 DUP												
Total Dissolved Solids			499		515	mg/L	3.16		(0%-5%)	CH6	08/30/23	17:18
QC1205502664 LCS												
Total Dissolved Solids	300				301	mg/L		100	(95%-105%)		08/30/23	17:18
QC1205502663 MB												
Total Dissolved Solids				U	ND	mg/L					08/30/23	17:18
Spectrometric Analysis												
Batch 2483133												
QC1205499947 LCS												
Total Sulfide	0.400				0.396	mg/L		99	(85%-115%)	JW2	08/25/23	14:10
QC1205499946 MB												
Total Sulfide				U	ND	mg/L					08/25/23	14:10

QC Summary

Workorder: 634768

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Spectrometric Analysis										
Batch 2483133										
QC1205499950 634768004 PS										
Total Sulfide	0.400 U	ND		0.266	mg/L		65.8*	(75%-125%)	JW2	08/25/23 14:14
QC1205499951 634768004 PSD										
Total Sulfide	0.400 U	ND		0.273	mg/L	2.59	67.5*	(0%-15%)		08/25/23 14:15
Batch 2483779										
QC1205501209 LCS										
Total Sulfide	0.400			0.398	mg/L		99.4	(85%-115%)	JW2	08/28/23 12:54
QC1205501208 MB										
Total Sulfide			U	ND	mg/L					08/28/23 12:54
QC1205501210 634615002 PS										
Total Sulfide	0.400 U	ND		0.118	mg/L		29.4*	(75%-125%)		08/28/23 12:55
QC1205501212 634650011 PS										
Total Sulfide	0.400 U	ND		0.111	mg/L		27.7*	(75%-125%)		08/28/23 12:59
QC1205501211 634615002 PSD										
Total Sulfide	0.400 U	ND		0.113	mg/L	3.73	28.3*	(0%-15%)		08/28/23 12:55
QC1205501213 634650011 PSD										
Total Sulfide	0.400 U	ND		0.109	mg/L	1.96	27.2*	(0%-15%)		08/28/23 13:00
Titration and Ion Analysis										
Batch 2486267										
QC1205505693 LCS										
Alkalinity, Total as CaCO3	50.0			51.2	mg/L		102	(90%-110%)	JW2	09/01/23 11:10
QC1205505710 LCS										
Alkalinity, Total as CaCO3	15.0			15.3	mg/L		102	(90%-110%)		09/01/23 11:11

QC Summary

Workorder: **634768**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Titration and Ion Analysis											
Batch 2486267											
QC1205506027 LCSD											
Alkalinity, Total as CaCO3	50.0			51.5	mg/L	0.584	103	(0%-20%)	JW2	09/01/23	11:11
QC1205506195 LCSD											
Alkalinity, Total as CaCO3	15.0			14.8	mg/L	3.32	98.7	(0%-20%)		09/01/23	11:11

Notes:

The Qualifiers in this report are defined as follows:

U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
N	Metals--The Matrix spike sample recovery is not within specified control limits
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
Z	Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
d	5-day BOD--The 2:1 depletion requirement was not met for this sample
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
E	%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
E	General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
FB	Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
R	Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.
B	The target analyte was detected in the associated blank.
e	5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes
J	See case narrative for an explanation

QC Summary

Workorder: **634768**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

QC Summary

Report Date: September 6, 2023

Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia

Contact: **Joju Abraham**

Workorder: **634444**

Parmname	NOM		Sample	Qual	QC	Units	RPD%		REC%	Range	Anlst	Date Time
Ion Chromatography												
Batch 2481584												
QC1205497354 634441001 DUP												
Chloride			32.7		32.5	mg/L	0.522	^		(+/-10.0)	JLD1	08/24/23 01:49
Fluoride			0.123		0.124	mg/L	1.13	^		(+/-0.100)		08/24/23 00:14
Nitrate-N		J	0.0707	J	0.0739	mg/L	4.43	^		(+/-0.100)		
Sulfate			466		474	mg/L	1.69			(0%-20%)		08/24/23 01:49
QC1205497353 LCS												
Chloride	5.00				4.64	mg/L			92.8	(90%-110%)		08/23/23 23:42
Fluoride	2.50				2.37	mg/L			94.6	(90%-110%)		
Nitrate-N	2.50				2.27	mg/L			91	(90%-110%)		
Sulfate	10.0				9.48	mg/L			94.8	(90%-110%)		
QC1205497352 MB												
Chloride				U	ND	mg/L						08/23/23 23:10
Fluoride				U	ND	mg/L						
Nitrate-N				U	ND	mg/L						
Sulfate				U	ND	mg/L						
QC1205497355 634441001 PS												
Chloride	5.00		0.654		5.10	mg/L			88.9 *	(90%-110%)		08/24/23 02:21

QC Summary

Workorder: **634444**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography											
Batch 2481584											
Fluoride	2.50		0.123		2.56	mg/L		97.3	(90%-110%)	JLD1	08/24/23 00:45
Nitrate-N	2.50	J	0.0707		2.29	mg/L		88.7*	(90%-110%)		
Sulfate	10.0		9.32		18.8	mg/L		94.3	(90%-110%)		08/24/23 02:21
Batch 2481608											
QC1205497371 634145003 DUP											
Nitrite-N			0.000		0.000	mg/L	0 ^		(+/-2.50)	HXC1	08/24/23 15:05
Chloride			78.8		79.7	mg/L	1.1		(0%-20%)		
Fluoride			0.719		0.719	mg/L	0.0417		(0%-20%)		08/23/23 20:43
Nitrate-N			10.9		11.0	mg/L	0.894 ^		(+/-2.50)		08/24/23 15:05
Sulfate			37.6		37.5	mg/L	0.306 ^		(+/-10.0)		
QC1205497369 LCS											
Chloride	5.00				4.78	mg/L		95.6	(90%-110%)		08/23/23 23:18
Fluoride	2.50				2.46	mg/L		98.3	(90%-110%)		
Nitrate-N	2.50				2.36	mg/L		94.3	(90%-110%)		
Sulfate	10.0				9.76	mg/L		97.6	(90%-110%)		
QC1205497368 MB											
Chloride				U	ND	mg/L					08/23/23 22:47
Fluoride				U	ND	mg/L					

QC Summary

Workorder: **634444**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography										
Batch 2481608										
Nitrate-N			U	ND	mg/L				HXC1	08/23/23 22:47
Sulfate			U	ND	mg/L					
QC1205497373 634145003 PS										
Nitrite-N	2.50	0.000		2.54	mg/L		101	(90%-110%)		08/24/23 15:36
Chloride	5.00	3.15		8.45	mg/L		106	(90%-110%)		
Fluoride	2.50	0.719		3.17	mg/L		98	(90%-110%)		08/23/23 21:14
Nitrate-N	2.50	0.434		2.85	mg/L		96.5	(90%-110%)		08/24/23 15:36
Sulfate	10.0	1.51		11.3	mg/L		98.4	(90%-110%)		
Metals Analysis - ICPMS										
Batch 2482703										
QC1205499165 LCS										
Antimony	0.0500			0.0492	mg/L		98.4	(80%-120%)	PRB	08/31/23 22:21
Arsenic	0.0500			0.0500	mg/L		99.9	(80%-120%)		
Barium	0.0500			0.0522	mg/L		104	(80%-120%)		
Beryllium	0.0500			0.0527	mg/L		105	(80%-120%)		
Boron	0.100			0.103	mg/L		103	(80%-120%)		
Cadmium	0.0500			0.0502	mg/L		100	(80%-120%)		
Calcium	2.00			1.96	mg/L		98	(80%-120%)		

QC Summary

Workorder: **634444**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2482703										
Chromium	0.0500			0.0515	mg/L		103	(80%-120%)	PRB	08/31/23 22:21
Cobalt	0.0500			0.0514	mg/L		103	(80%-120%)		
Iron	2.00			2.02	mg/L		101	(80%-120%)		
Lead	0.0500			0.0518	mg/L		104	(80%-120%)		
Lithium	0.0500			0.0506	mg/L		101	(80%-120%)		
Magnesium	2.00			1.97	mg/L		98.4	(80%-120%)		
Manganese	0.0500			0.0497	mg/L		99.4	(80%-120%)		09/01/23 08:52
Molybdenum	0.0500			0.0499	mg/L		99.8	(80%-120%)		08/31/23 22:21
Potassium	2.00			1.94	mg/L		97	(80%-120%)		
Selenium	0.0500			0.0493	mg/L		98.7	(80%-120%)		
Sodium	2.00			1.95	mg/L		97.6	(80%-120%)		
Thallium	0.0500			0.0507	mg/L		101	(80%-120%)		
QC1205499164 MB										
Antimony			U	ND	mg/L					08/31/23 22:18
Arsenic			U	ND	mg/L					
Barium			U	ND	mg/L					

QC Summary

Workorder: **634444**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch 2482703											
Beryllium			U	ND	mg/L				PRB	08/31/23	22:18
Boron			U	ND	mg/L						
Cadmium			U	ND	mg/L						
Calcium			U	ND	mg/L						
Chromium			U	ND	mg/L						
Cobalt			U	ND	mg/L						
Iron			U	ND	mg/L						
Lead			U	ND	mg/L						
Lithium			U	ND	mg/L						
Magnesium			U	ND	mg/L						
Manganese			U	ND	mg/L					09/01/23	08:50
Molybdenum			U	ND	mg/L					08/31/23	22:18
Potassium			U	ND	mg/L						
Selenium			U	ND	mg/L						
Sodium			U	ND	mg/L						

QC Summary

Workorder: **634444**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2482703											
Thallium				U	ND	mg/L				PRB	08/31/23 22:18
QC1205499166 634441003 MS											
Antimony	0.0500	U	ND		0.0511	mg/L		102	(75%-125%)		08/31/23 22:36
Arsenic	0.0500	U	ND		0.0528	mg/L		105	(75%-125%)		
Barium	0.0500		0.0268		0.0800	mg/L		106	(75%-125%)		
Beryllium	0.0500	U	ND		0.0531	mg/L		106	(75%-125%)		
Boron	0.100		1.90		2.08	mg/L		N/A	(75%-125%)		09/01/23 09:00
Cadmium	0.0500	U	ND		0.0511	mg/L		102	(75%-125%)		08/31/23 22:36
Calcium	2.00		83.4		88.8	mg/L		N/A	(75%-125%)		09/01/23 09:00
Chromium	0.0500	U	ND		0.0518	mg/L		103	(75%-125%)		08/31/23 22:36
Cobalt	0.0500		0.00384		0.0554	mg/L		103	(75%-125%)		
Iron	2.00	U	ND		2.06	mg/L		102	(75%-125%)		
Lead	0.0500	U	ND		0.0511	mg/L		102	(75%-125%)		
Lithium	0.0500	U	ND		0.0521	mg/L		102	(75%-125%)		
Magnesium	2.00		18.9		21.3	mg/L		N/A	(75%-125%)		
Manganese	0.0500		3.33		3.48	mg/L		N/A	(75%-125%)		09/01/23 09:00

QC Summary

Workorder: **634444**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2482703											
Molybdenum	0.0500	U	ND		0.0527	mg/L		105	(75%-125%)	PRB	08/31/23 22:36
Potassium	2.00		3.52		5.59	mg/L		104	(75%-125%)		
Selenium	0.0500	U	ND		0.0531	mg/L		106	(75%-125%)		
Sodium	2.00		20.7		23.1	mg/L		N/A	(75%-125%)		
Thallium	0.0500	U	ND		0.0503	mg/L		101	(75%-125%)		
QC1205499167 634441003 MSD											
Antimony	0.0500	U	ND		0.0491	mg/L	4.07	98.1	(0%-20%)		08/31/23 22:39
Arsenic	0.0500	U	ND		0.0508	mg/L	3.79	101	(0%-20%)		
Barium	0.0500		0.0268		0.0757	mg/L	5.49	97.8	(0%-20%)		
Beryllium	0.0500	U	ND		0.0506	mg/L	4.96	101	(0%-20%)		
Boron	0.100		1.90		2.00	mg/L	4.07	N/A	(0%-20%)		09/01/23 09:02
Cadmium	0.0500	U	ND		0.0496	mg/L	2.97	98.7	(0%-20%)		08/31/23 22:39
Calcium	2.00		83.4		84.1	mg/L	5.45	N/A	(0%-20%)		09/01/23 09:02
Chromium	0.0500	U	ND		0.0504	mg/L	2.88	101	(0%-20%)		08/31/23 22:39
Cobalt	0.0500		0.00384		0.0540	mg/L	2.65	100	(0%-20%)		
Iron	2.00	U	ND		2.00	mg/L	2.95	98.6	(0%-20%)		

QC Summary

Workorder: **634444**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2482703											
Lead	0.0500	U	ND		0.0493	mg/L	3.6	98.5	(0%-20%)	PRB	08/31/23 22:39
Lithium	0.0500	U	ND		0.0509	mg/L	2.35	99.9	(0%-20%)		
Magnesium	2.00		18.9		20.7	mg/L	2.55	N/A	(0%-20%)		
Manganese	0.0500		3.33		3.35	mg/L	3.62	N/A	(0%-20%)		09/01/23 09:02
Molybdenum	0.0500	U	ND		0.0512	mg/L	2.82	102	(0%-20%)		08/31/23 22:39
Potassium	2.00		3.52		5.37	mg/L	4.12	92.4	(0%-20%)		
Selenium	0.0500	U	ND		0.0512	mg/L	3.53	102	(0%-20%)		
Sodium	2.00		20.7		22.6	mg/L	2.28	N/A	(0%-20%)		
Thallium	0.0500	U	ND		0.0488	mg/L	3.06	97.5	(0%-20%)		
QC1205499168 634441003 SDILT											
Antimony		U	ND	U	ND	ug/L	N/A		(0%-20%)		08/31/23 22:46
Arsenic		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Barium			26.8		5.04	ug/L	6.03		(0%-20%)		
Beryllium		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Boron			95.1		20.6	ug/L	8.16		(0%-20%)		09/01/23 09:04
Cadmium		U	ND	U	ND	ug/L	N/A		(0%-20%)		08/31/23 22:46

QC Summary

Workorder: **634444**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2482703										
Calcium		4170		869	ug/L	4.2		(0%-20%)	PRB	09/01/23 09:04
Chromium	U	ND	U	ND	ug/L	N/A		(0%-20%)		08/31/23 22:46
Cobalt		3.84	J	0.796	ug/L	3.56		(0%-20%)		
Iron	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Lithium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Magnesium		18900		3500	ug/L	7.29		(0%-20%)		
Manganese		167		33.7	ug/L	1.09		(0%-20%)		09/01/23 09:04
Molybdenum	U	ND	U	ND	ug/L	N/A		(0%-20%)		08/31/23 22:46
Potassium		3520		680	ug/L	3.4		(0%-20%)		
Selenium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Sodium		20700		3830	ug/L	7.8		(0%-20%)		
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Metals Analysis-Mercury										
Batch 2482624										
QC1205499046 634447002 DUP										
Mercury	U	ND	U	ND	mg/L	N/A			JP2	08/25/23 12:24

QC Summary

Workorder: **634444**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis-Mercury										
Batch 2482624										
QC1205499045 LCS										
Mercury	0.00200			0.00199	mg/L		99.5	(80%-120%)	JP2	08/25/23 11:58
QC1205499044 MB										
Mercury			U	ND	mg/L					08/25/23 11:56
QC1205499047 634447002 MS										
Mercury	0.00200	U	ND	0.00199	mg/L		99.5	(75%-125%)		08/25/23 12:26
QC1205499048 634447002 SDILT										
Mercury		U	ND	U ND	ug/L	N/A		(0%-10%)		08/25/23 12:27
Solids Analysis										
Batch 2482655										
QC1205499077 634352015 DUP										
Total Dissolved Solids		U	ND	U ND	mg/L	N/A			CH6	08/25/23 10:10
QC1205499076 LCS										
Total Dissolved Solids	300			301	mg/L		100	(95%-105%)		08/25/23 10:10
QC1205499075 MB										
Total Dissolved Solids			U	ND	mg/L					08/25/23 10:10
Spectrometric Analysis										
Batch 2481696										
QC1205497560 LCS										
Total Sulfide	0.400			0.398	mg/L		99.6	(85%-115%)	JW2	08/24/23 17:36
QC1205497559 MB										
Total Sulfide			U	ND	mg/L					08/24/23 17:36
QC1205497561 634441001 PS										
Total Sulfide	0.400	U	ND	0.363	mg/L		90.8	(75%-125%)		08/24/23 17:37

QC Summary

Workorder: **634444**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Spectrometric Analysis											
Batch 2481696											
QC1205497563 634447001 PS											
Total Sulfide	0.400	U	ND		0.420	mg/L		105	(75%-125%)	JW2	08/24/23 17:46
QC1205497562 634441001 PSD											
Total Sulfide	0.400	U	ND		0.367	mg/L	1.09	91.8	(0%-15%)		08/24/23 17:38
QC1205497564 634447001 PSD											
Total Sulfide	0.400	U	ND		0.412	mg/L	1.92	103	(0%-15%)		08/24/23 17:47
Titration and Ion Analysis											
Batch 2482476											
QC1205498938 LCS											
Alkalinity, Total as CaCO3	50.0				50.2	mg/L		100	(90%-110%)	JW2	08/24/23 15:56
QC1205499028 LCSD											
Alkalinity, Total as CaCO3	50.0				50.7	mg/L	0.991	101	(0%-20%)		08/24/23 15:57

Notes:

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- N Metals--The Matrix spike sample recovery is not within specified control limits
- H Analytical holding time was exceeded
- < Result is less than value reported
- > Result is greater than value reported
- h Preparation or preservation holding time was exceeded
- R Sample results are rejected
- Z Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
- d 5-day BOD--The 2:1 depletion requirement was not met for this sample
- ^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
- N/A RPD or %Recovery limits do not apply.
- ND Analyte concentration is not detected above the detection limit
- E %difference of sample and SD is >10%. Sample concentration must meet flagging criteria

QC Summary

Workorder: **634444**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
E	General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
FB	Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
R	Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.
B	The target analyte was detected in the associated blank.
e	5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes
J	See case narrative for an explanation

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

QC Summary

Report Date: September 8, 2023

Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia

Contact: **Joju Abraham**

Workorder: **634650**

Parmname	NOM		Sample	Qual	QC	Units	RPD%		REC%	Range	Anlst	Date	Time
Ion Chromatography													
Batch 2482641													
QC1205499056 634643001 DUP													
Chloride			2.56		2.56	mg/L	0.235			(0%-20%)	LXA2	08/24/23	23:40
Fluoride			2.34		2.35	mg/L	0.435			(0%-20%)			
Nitrate-N		J	0.0737	J	0.0724	mg/L	1.78	^		(+/-0.100)			
Sulfate			761		761	mg/L	0.0329			(0%-20%)		08/25/23	15:38
QC1205499055 LCS													
Chloride	5.00				4.61	mg/L			92.3	(90%-110%)		08/24/23	22:06
Fluoride	2.50				2.40	mg/L			96	(90%-110%)			
Nitrate-N	2.50				2.31	mg/L			92.4	(90%-110%)			
Sulfate	10.0				9.50	mg/L			95	(90%-110%)			
QC1205499054 MB													
Chloride				U	ND	mg/L						08/24/23	23:09
Fluoride				U	ND	mg/L							
Nitrate-N				U	ND	mg/L							
Sulfate				U	ND	mg/L							
QC1205499057 634643001 PS													
Chloride	5.00		2.56		7.48	mg/L			98.4	(90%-110%)		08/25/23	00:11

QC Summary

Workorder: 634650

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography											
Batch 2482641											
Fluoride	2.50		2.34		4.86	mg/L		101	(90%-110%)	LXA2	08/25/23 00:11
Nitrate-N	2.50	J	0.0737		2.40	mg/L		92.9	(90%-110%)		
Sulfate	10.0		7.61		17.7	mg/L		101	(90%-110%)		08/25/23 16:09
Batch 2482649											
QC1205499060 634519001 DUP											
Chloride			1.63		1.64	mg/L	0.527		(0%-20%)	JLD1	08/25/23 01:21
Fluoride		U	ND	U	ND	mg/L	N/A				
Nitrate-N		U	ND	U	ND	mg/L	N/A				
Sulfate			44.9		44.7	mg/L	0.427		(0%-20%)		08/25/23 12:06
QC1205499059 LCS											
Chloride	5.00				4.86	mg/L		97.2	(90%-110%)		08/25/23 03:27
Fluoride	2.50				2.58	mg/L		103	(90%-110%)		
Nitrate-N	2.50				2.42	mg/L		96.9	(90%-110%)		
Sulfate	10.0				9.95	mg/L		99.5	(90%-110%)		
QC1205499058 MB											
Chloride				U	ND	mg/L					08/25/23 02:55
Fluoride				U	ND	mg/L					
Nitrate-N				U	ND	mg/L					

QC Summary

Workorder: **634650**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography											
Batch 2482649											
Sulfate				U	ND	mg/L				JLD1	08/25/23 02:55
QC1205499061 634519001 PS											
Chloride	5.00		1.63		6.55	mg/L		98.5	(90%-110%)		08/25/23 01:52
Fluoride	2.50	U	ND		2.54	mg/L		102	(90%-110%)		
Nitrate-N	2.50	U	ND		2.52	mg/L		101	(90%-110%)		
Sulfate	10.0		8.97		24.7	mg/L		157*	(90%-110%)		08/25/23 12:37
Metals Analysis - ICPMS											
Batch 2482707											
QC1205499175 LCS											
Antimony	0.0500				0.0492	mg/L		98.4	(80%-120%)	PRB	09/08/23 11:22
Arsenic	0.0500				0.0510	mg/L		102	(80%-120%)		
Barium	0.0500				0.0569	mg/L		114	(80%-120%)		
Beryllium	0.0500				0.0494	mg/L		98.8	(80%-120%)		
Boron	0.100				0.0988	mg/L		98.8	(80%-120%)		
Cadmium	0.0500				0.0502	mg/L		100	(80%-120%)		
Calcium	2.00				2.11	mg/L		106	(80%-120%)		
Chromium	0.0500				0.0485	mg/L		97	(80%-120%)		
Cobalt	0.0500				0.0498	mg/L		99.6	(80%-120%)		

QC Summary

Workorder: **634650**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2482707										
Iron	2.00			1.98	mg/L		99.2	(80%-120%)	PRB	09/08/23 11:22
Lead	0.0500			0.0508	mg/L		102	(80%-120%)		
Lithium	0.0500			0.0466	mg/L		93.2	(80%-120%)		
Magnesium	2.00			1.90	mg/L		94.8	(80%-120%)		
Manganese	0.0500			0.0485	mg/L		96.9	(80%-120%)		
Molybdenum	0.0500			0.0512	mg/L		102	(80%-120%)		
Potassium	2.00			2.08	mg/L		104	(80%-120%)		
Selenium	0.0500			0.0508	mg/L		102	(80%-120%)		
Sodium	2.00			1.97	mg/L		98.4	(80%-120%)		
Thallium	0.0500			0.0493	mg/L		98.6	(80%-120%)		
QC1205499174 MB										
Antimony			U	ND	mg/L					09/08/23 11:17
Arsenic			U	ND	mg/L					
Barium			U	ND	mg/L					
Beryllium			U	ND	mg/L					
Boron			U	ND	mg/L					

QC Summary

Workorder: **634650**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2482707										
Cadmium			U	ND	mg/L				PRB	09/08/23 11:17
Calcium			U	ND	mg/L					
Chromium			U	ND	mg/L					
Cobalt			U	ND	mg/L					
Iron			U	ND	mg/L					
Lead			U	ND	mg/L					
Lithium			U	ND	mg/L					
Magnesium			U	ND	mg/L					
Manganese			U	ND	mg/L					
Molybdenum			U	ND	mg/L					
Potassium			U	ND	mg/L					
Selenium			U	ND	mg/L					
Sodium			U	ND	mg/L					
Thallium			U	ND	mg/L					
QC1205499176 634650001 MS										
Antimony	0.0500	U	ND	0.0527	mg/L		105	(75%-125%)		09/08/23 13:21

QC Summary

Workorder: **634650**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2482707											
Arsenic	0.0500	U	ND		0.0551	mg/L		107	(75%-125%)	PRB	09/08/23 13:21
Barium	0.0500		0.0149		0.0690	mg/L		108	(75%-125%)		
Beryllium	0.0500	U	ND		0.0508	mg/L		102	(75%-125%)		
Boron	0.100		0.430		0.549	mg/L		N/A	(75%-125%)		09/08/23 11:34
Cadmium	0.0500	J	0.000679		0.0526	mg/L		104	(75%-125%)		09/08/23 13:21
Calcium	2.00		217		222	mg/L		N/A	(75%-125%)		09/08/23 11:34
Chromium	0.0500	U	ND		0.0505	mg/L		100	(75%-125%)		09/08/23 13:21
Cobalt	0.0500		0.0259		0.0776	mg/L		104	(75%-125%)		
Iron	2.00		0.136		2.16	mg/L		101	(75%-125%)		
Lead	0.0500	U	ND		0.0514	mg/L		103	(75%-125%)		
Lithium	0.0500		0.0221		0.0704	mg/L		96.6	(75%-125%)		
Magnesium	2.00		133		137	mg/L		N/A	(75%-125%)		09/08/23 11:34
Manganese	0.0500		49.9		51.3	mg/L		N/A	(75%-125%)		09/08/23 11:50
Molybdenum	0.0500	U	ND		0.0562	mg/L		112	(75%-125%)		09/08/23 13:21
Potassium	2.00		11.2		13.4	mg/L		N/A	(75%-125%)		

QC Summary

Workorder: **634650**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2482707											
Selenium	0.0500	U	ND		0.0554	mg/L		108	(75%-125%)	PRB	09/08/23 13:21
Sodium	2.00		43.6		46.1	mg/L		N/A	(75%-125%)		
Thallium	0.0500	U	ND		0.0505	mg/L		101	(75%-125%)		
QC1205499177 634650001 MSD											
Antimony	0.0500	U	ND		0.0526	mg/L	0.167	105	(0%-20%)		09/08/23 13:24
Arsenic	0.0500	U	ND		0.0552	mg/L	0.131	107	(0%-20%)		
Barium	0.0500		0.0149		0.0700	mg/L	1.5	110	(0%-20%)		
Beryllium	0.0500	U	ND		0.0509	mg/L	0.185	102	(0%-20%)		
Boron	0.100		0.430		0.530	mg/L	3.51	N/A	(0%-20%)		09/08/23 11:37
Cadmium	0.0500	J	0.000679		0.0533	mg/L	1.38	105	(0%-20%)		09/08/23 13:24
Calcium	2.00		217		222	mg/L	0.0188	N/A	(0%-20%)		09/08/23 11:37
Chromium	0.0500	U	ND		0.0513	mg/L	1.54	102	(0%-20%)		09/08/23 13:24
Cobalt	0.0500		0.0259		0.0786	mg/L	1.3	106	(0%-20%)		
Iron	2.00		0.136		2.20	mg/L	1.59	103	(0%-20%)		
Lead	0.0500	U	ND		0.0522	mg/L	1.56	104	(0%-20%)		
Lithium	0.0500		0.0221		0.0711	mg/L	0.982	98	(0%-20%)		

QC Summary

Workorder: **634650**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2482707											
Magnesium	2.00		133		136	mg/L	0.591	N/A	(0%-20%)	PRB	09/08/23 11:37
Manganese	0.0500		49.9		51.7	mg/L	0.658	N/A	(0%-20%)		09/08/23 11:53
Molybdenum	0.0500	U	ND		0.0564	mg/L	0.314	113	(0%-20%)		09/08/23 13:24
Potassium	2.00		11.2		13.5	mg/L	0.441	N/A	(0%-20%)		
Selenium	0.0500	U	ND		0.0562	mg/L	1.52	110	(0%-20%)		
Sodium	2.00		43.6		46.9	mg/L	1.78	N/A	(0%-20%)		
Thallium	0.0500	U	ND		0.0510	mg/L	0.921	102	(0%-20%)		
QC1205499178 634650001 SDILT											
Antimony		U	ND	U	ND	ug/L	N/A		(0%-20%)		09/08/23 13:30
Arsenic		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Barium			14.9	J	2.93	ug/L	2.02		(0%-20%)		
Beryllium		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Boron			86.1		19.1	ug/L	10.8		(0%-20%)		09/08/23 11:44
Cadmium		J	0.679	U	ND	ug/L	N/A		(0%-20%)		09/08/23 13:30
Calcium			43400		8860	ug/L	2.09		(0%-20%)		09/08/23 11:44
Chromium		U	ND	U	ND	ug/L	N/A		(0%-20%)		09/08/23 13:30

QC Summary

Workorder: **634650**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2482707										
Cobalt		25.9		5.46	ug/L	5.64		(0%-20%)	PRB	09/08/23 13:30
Iron		136	U	ND	ug/L	N/A		(0%-20%)		
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Lithium		22.1	J	4.79	ug/L	8.29		(0%-20%)		
Magnesium		26700		5680	ug/L	6.41		(0%-20%)		09/08/23 11:44
Manganese		499		105	ug/L	5.59		(0%-20%)		09/08/23 11:56
Molybdenum	U	ND	U	ND	ug/L	N/A		(0%-20%)		09/08/23 13:30
Potassium		11200		2280	ug/L	1.26		(0%-20%)		
Selenium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Sodium		43600		9440	ug/L	8.17		(0%-20%)		
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Metals Analysis-Mercury										
Batch 2483666										
QC1205500954 LCS										
Mercury	0.00200			0.00207	mg/L		103	(80%-120%)	AXS5	08/29/23 11:03
QC1205500952 MB										
Mercury			U	ND	mg/L					08/29/23 11:02
QC1205500956 634765001 MS										
Mercury	0.0200	U		ND	0.0207	mg/L	103	(75%-125%)		08/29/23 11:37

QC Summary

Workorder: **634650**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis-Mercury											
Batch 2483666											
QC1205500957 634765001 MSD											
Mercury	0.0200	U	ND		0.0210	mg/L	1.82	105	(0%-20%)	AXS5	08/29/23 11:39
QC1205500958 634765001 SDILT											
Mercury		U	ND	U	ND	ug/L	N/A		(0%-10%)		08/29/23 11:41
Solids Analysis											
Batch 2484234											
QC1205502076 634643001 DUP											
Total Dissolved Solids			1270		1280	mg/L	0.94		(0%-5%)	CH6	08/29/23 16:03
QC1205502074 LCS											
Total Dissolved Solids	300				301	mg/L		100	(95%-105%)		08/29/23 16:03
QC1205502073 MB											
Total Dissolved Solids				U	ND	mg/L					08/29/23 16:03
Batch 2484583											
QC1205502645 634927001 DUP											
Total Dissolved Solids		U	ND	U	ND	mg/L	N/A			CH6	08/30/23 15:42
QC1205502641 LCS											
Total Dissolved Solids	300				300	mg/L		100	(95%-105%)		08/30/23 15:42
QC1205502642 LCSD											
Total Dissolved Solids	300				304	mg/L	1.32	101	(0%-5%)		08/30/23 15:42
QC1205502640 MB											
Total Dissolved Solids				U	ND	mg/L					08/30/23 15:42
Spectrometric Analysis											
Batch 2482961											
QC1205499656 LCS											
Total Sulfide	0.400				0.399	mg/L		99.7	(85%-115%)	JW2	08/25/23 10:42

QC Summary

Workorder: 634650

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Spectrometric Analysis										
Batch 2482961										
QC1205499655 MB										
Total Sulfide			U	ND	mg/L				JW2	08/25/23 10:42
QC1205499657 634513005 PS										
Total Sulfide	0.400	U ND		0.389	mg/L		96.4	(75%-125%)		08/25/23 10:48
QC1205499658 634513005 PSD										
Total Sulfide	0.400	U ND		0.391	mg/L	0.511	96.9	(0%-15%)		08/25/23 10:48
Batch 2483779										
QC1205501209 LCS										
Total Sulfide	0.400			0.398	mg/L		99.4	(85%-115%)	JW2	08/28/23 12:54
QC1205501208 MB										
Total Sulfide			U	ND	mg/L					08/28/23 12:54
QC1205501210 634615002 PS										
Total Sulfide	0.400	U ND		0.118	mg/L		29.4*	(75%-125%)		08/28/23 12:55
QC1205501212 634650011 PS										
Total Sulfide	0.400	U ND		0.111	mg/L		27.7*	(75%-125%)		08/28/23 12:59
QC1205501211 634615002 PSD										
Total Sulfide	0.400	U ND		0.113	mg/L	3.73	28.3*	(0%-15%)		08/28/23 12:55
QC1205501213 634650011 PSD										
Total Sulfide	0.400	U ND		0.109	mg/L	1.96	27.2*	(0%-15%)		08/28/23 13:00
Titration and Ion Analysis										
Batch 2486265										
QC1205505688 LCS										
Alkalinity, Total as CaCO3	50.0			51.7	mg/L		103	(90%-110%)	JW2	09/01/23 10:39

QC Summary

Workorder: **634650**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Titration and Ion Analysis										
Batch 2486265										
QC1205505709 LCS										
Alkalinity, Total as CaCO3	15.0			15.1	mg/L		101	(90%-110%)	JW2	09/01/23 10:41
QC1205506026 LCSD										
Alkalinity, Total as CaCO3	50.0			51.5	mg/L	0.388	103	(0%-20%)		09/01/23 10:40
QC1205506194 LCSD										
Alkalinity, Total as CaCO3	15.0			15.4	mg/L	1.97	103	(0%-20%)		09/01/23 10:42

Notes:

The Qualifiers in this report are defined as follows:

U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
N	Metals--The Matrix spike sample recovery is not within specified control limits
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
Z	Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
d	5-day BOD--The 2:1 depletion requirement was not met for this sample
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
E	%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
E	General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
FB	Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
R	Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.

QC Summary

Workorder: **634650**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

B The target analyte was detected in the associated blank.

e 5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes

J See case narrative for an explanation

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Technical Case Narrative
Georgia Power Company
SDG #: 634768

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2483979

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 14
Preparation Batch: 2483978

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
634768001	BRA-APBCD-FD-03
634768002	BRA-APBCD-EB-05
634768003	BRA-BRGWC-27I
634768004	BRA-BRGWC-45
634768005	BRA-PZ-75I
634768006	BRA-PZ-74I
634768007	BRA-BRGWC-29I
634768008	BRA-PZ-51D
634768009	BRA-APBCD-FB-03
634768010	BRA-APBCD-EB-06
634768011	BRA-BRGWC-52I
634768012	BRA-BRGWC-47
634768013	BRA-BRGWC-25I
1205501591	Method Blank (MB)**ICP-MS**
1205501592	Laboratory Control Sample (LCS)
1205501595	634768003(BRA-BRGWC-27IL) Serial Dilution (SD)
1205501593	634768003(BRA-BRGWC-27IS) Matrix Spike (MS)
1205501594	634768003(BRA-BRGWC-27ISD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

CRDL/PQL Requirements
The CRDL standard recoveries for SW846 6020B met the advisory control limits with the exception of calcium. Client sample concentrations were less than the MDL or greater than two times the CRDL; therefore the data were not adversely affected. 634768001 (BRA-APBCD-FD-03), 634768002 (BRA-APBCD-EB-05), 634768003 (BRA-BRGWC-27I), 634768004 (BRA-BRGWC-45), 634768005 (BRA-PZ-75I), 634768006 (BRA-PZ-74I), 634768007 (BRA-BRGWC-29I), 634768008 (BRA-PZ-51D), 634768009 (BRA-APBCD-FB-03), 634768011

(BRA-BRGWC-52I), 634768012 (BRA-BRGWC-47) and 634768013 (BRA-BRGWC-25I).

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples 634768003 (BRA-BRGWC-27I), 634768005 (BRA-PZ-75I), 634768006 (BRA-PZ-74I), 634768007 (BRA-BRGWC-29I), 634768008 (BRA-PZ-51D), 634768011 (BRA-BRGWC-52I), 634768012 (BRA-BRGWC-47) and 634768013 (BRA-BRGWC-25I) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument.

Analyte	634768							
	003	**005**	**006**	**007**	**008**	**011**	**012**	**013**
Boron	20X	20X	20X	20X	1X	20X	10X	20X
Calcium	20X	1X	20X	20X	20X	1X	10X	20X
Magnesium	1X	1X	1X	1X	1X	1X	10X	1X
Manganese	1X	1X	1X	20X	20X	1X	1X	20X
Sodium	1X	1X	1X	1X	20X	1X	1X	1X

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**
Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 40
Analytical Batch: 2483668

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 40
Preparation Batch: 2483667

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
634768001	BRA-APBCD-FD-03
634768002	BRA-APBCD-EB-05
634768003	BRA-BRGWC-27I
634768004	BRA-BRGWC-45
634768005	BRA-PZ-75I
634768006	BRA-PZ-74I
634768007	BRA-BRGWC-29I
634768008	BRA-PZ-51D
634768009	BRA-APBCD-FB-03
634768010	BRA-APBCD-EB-06
634768011	BRA-BRGWC-52I
634768012	BRA-BRGWC-47
634768013	BRA-BRGWC-25I
1205500963	Method Blank (MB)**CVAA**

1205500964	Laboratory Control Sample (LCS)
1205500967	634563009(NonSDGL) Serial Dilution (SD)
1205500965	634563009(NonSDGD) Sample Duplicate (DUP)
1205500966	634563009(NonSDGS) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

General Chemistry

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 33
Analytical Batch: 2483105

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
634768001	BRA-APBCD-FD-03
634768002	BRA-APBCD-EB-05
634768003	BRA-BRGWC-27I
634768004	BRA-BRGWC-45
634768005	BRA-PZ-75I
634768006	BRA-PZ-74I
634768007	BRA-BRGWC-29I
1205499910	Method Blank (MB)
1205499911	Laboratory Control Sample (LCS)
1205499912	634768007(BRA-BRGWC-29I) Sample Duplicate (DUP)
1205499913	634768007(BRA-BRGWC-29I) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Sample Dilutions
The following samples 1205499912 (BRA-BRGWC-29IDUP), 1205499913 (BRA-BRGWC-29IPS), 634768001 (BRA-APBCD-FD-03), 634768003 (BRA-BRGWC-27I), 634768004 (BRA-BRGWC-45), 634768005 (BRA-PZ-75I), 634768006 (BRA-PZ-74I) and 634768007 (BRA-BRGWC-29I) were diluted because target analyte concentrations exceeded the calibration range. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	634768					
	001	**003**	**004**	**005**	**006**	**007**
Chloride	10X	1X	10X	1X	25X	1X
Sulfate	10X	10X	10X	20X	25X	25X

Miscellaneous Information

Manual Integrations
Samples 634768001 (BRA-APBCD-FD-03) and 634768004 (BRA-BRGWC-45) were manually integrated to correctly position the baseline as set in the calibration standards.

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 33
Analytical Batch: 2483150

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
634768008	BRA-PZ-51D
634768009	BRA-APBCD-FB-03
634768010	BRA-APBCD-EB-06
634768011	BRA-BRGWC-52I
634768012	BRA-BRGWC-47
634768013	BRA-BRGWC-25I
1205499978	Method Blank (MB)
1205499979	Laboratory Control Sample (LCS)
1205499980	634784001(BRA-PZ-53D) Sample Duplicate (DUP)
1205499981	634784001(BRA-PZ-53D) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Sample Dilutions
The following samples 1205499980 (BRA-PZ-53DDUP), 1205499981 (BRA-PZ-53DPS), 634768008 (BRA-PZ-51D), 634768011 (BRA-BRGWC-52I), 634768012 (BRA-BRGWC-47) and 634768013 (BRA-BRGWC-25I) were diluted because target analyte concentrations exceeded the calibration range. The following sample 634768011 (BRA-BRGWC-52I) in this sample group was diluted due to matrix interference. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	634768			
	008	**011**	**012**	**013**

Chloride	40X	1X	1X	1X
Fluoride	1X	2X	1X	1X
Sulfate	40X	10X	200X	20X

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 21
Analytical Batch: 2484591

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
634768001	BRA-APBCD-FD-03
1205502654	Method Blank (MB)
1205502655	Laboratory Control Sample (LCS)
1205502656	634511009(NonSDG) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Duplicate Relative Percent Difference (RPD) Statement
The Relative Percent Difference (RPD) between the sample and duplicate falls outside of the established acceptance limits because of the heterogeneous matrix of the sample:

Analyte	Sample	Value
Total Dissolved Solids	1205502656 (Non SDG 634511009DUP)	5.63* (0%-5%)

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 21
Analytical Batch: 2484594

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
634768002	BRA-APBCD-EB-05
634768003	BRA-BRGWC-27I
634768004	BRA-BRGWC-45
634768005	BRA-PZ-75I
634768006	BRA-PZ-74I

634768007	BRA-BRGWC-29I
634768008	BRA-PZ-51D
634768009	BRA-APBCD-FB-03
634768010	BRA-APBCD-EB-06
634768011	BRA-BRGWC-52I
634768012	BRA-BRGWC-47
634768013	BRA-BRGWC-25I
1205502663	Method Blank (MB)
1205502664	Laboratory Control Sample (LCS)
1205502665	634784001(BRA-PZ-53D) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments
A TDS meter was used to check the samples for interference prior to analysis. 634768008 (BRA-PZ-51D) and 634768012 (BRA-BRGWC-47).

Product: **Sulfide, Total**
Analytical Method: SM 4500-S (2-) D
Analytical Procedure: GL-GC-E-052 REV# 13
Analytical Batch: 2483133

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
634768001	BRA-APBCD-FD-03
634768002	BRA-APBCD-EB-05
634768004	BRA-BRGWC-45
634768006	BRA-PZ-74I
634768008	BRA-PZ-51D
634768009	BRA-APBCD-FB-03
634768010	BRA-APBCD-EB-06
634768011	BRA-BRGWC-52I
634768012	BRA-BRGWC-47
634768013	BRA-BRGWC-25I
1205499946	Method Blank (MB)
1205499947	Laboratory Control Sample (LCS)
1205499950	634768004(BRA-BRGWC-45) Post Spike (PS)
1205499951	634768004(BRA-BRGWC-45) Post Spike Duplicate (PSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where

applicable, with the following exceptions.

Quality Control (QC) Information

Matrix Spike (MS)/Post Spike (PS) Recovery Statement
The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Total Sulfide	1205499950 (BRA-BRGWC-45PS)	65.8* (75%-125%)
	1205499951 (BRA-BRGWC-45PSD)	67.5* (75%-125%)

Product: **Sulfide, Total**
Analytical Method: SM 4500-S (2-) D
Analytical Procedure: GL-GC-E-052 REV# 13
Analytical Batch: 2483779

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
634768003	BRA-BRGWC-27I
634768005	BRA-PZ-75I
634768007	BRA-BRGWC-29I
1205501208	Method Blank (MB)
1205501209	Laboratory Control Sample (LCS)
1205501210	634615002(BRA-BRGWC-35S) Post Spike (PS)
1205501211	634615002(BRA-BRGWC-35S) Post Spike Duplicate (PSD)
1205501212	634650011(BRA-BRGWC-50) Post Spike (PS)
1205501213	634650011(BRA-BRGWC-50) Post Spike Duplicate (PSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Matrix Spike (MS)/Post Spike (PS) Recovery Statement
The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Total Sulfide	1205501210 (BRA-BRGWC-35SPS)	29.4* (75%-125%)
	1205501211 (BRA-BRGWC-35SPSD)	28.3* (75%-125%)

	1205501212 (BRA-BRGWC-50PS)	27.7* (75%-125%)
	1205501213 (BRA-BRGWC-50PSD)	27.2* (75%-125%)

Product: **Alkalinity**
Analytical Method: SM 2320B
Analytical Procedure: GL-GC-E-033 REV# 15
Analytical Batch: 2486267

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
634768001	BRA-APBCD-FD-03
634768002	BRA-APBCD-EB-05
634768003	BRA-BRGWC-27I
634768004	BRA-BRGWC-45
634768005	BRA-PZ-75I
634768006	BRA-PZ-74I
634768007	BRA-BRGWC-29I
634768008	BRA-PZ-51D
634768009	BRA-APBCD-FB-03
634768010	BRA-APBCD-EB-06
634768011	BRA-BRGWC-52I
634768012	BRA-BRGWC-47
634768013	BRA-BRGWC-25I
1205505693	Laboratory Control Sample (LCS)
1205505710	Laboratory Control Sample (LCS)
1205506027	Laboratory Control Sample Duplicate (LCSD)
1205506195	Laboratory Control Sample Duplicate (LCSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Laboratory Control Sample Duplicate (LCSD)
An LCSD was used in place of matrix QC due to limited sample volume. 634768001 (BRA-APBCD-FD-03), 634768002 (BRA-APBCD-EB-05), 634768003 (BRA-BRGWC-27I), 634768004 (BRA-BRGWC-45), 634768005 (BRA-PZ-75I), 634768006 (BRA-PZ-74I), 634768007 (BRA-BRGWC-29I), 634768008 (BRA-PZ-51D), 634768009 (BRA-APBCD-FB-03), 634768010 (BRA-APBCD-EB-06), 634768011 (BRA-BRGWC-52I), 634768012 (BRA-BRGWC-47) and 634768013 (BRA-BRGWC-25I).

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Technical Case Narrative
Georgia Power Company
SDG #: 634650

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2482707

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 14
Preparation Batch: 2482706

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
634650001	BRA-PZ-51I
634650002	BRA-PZ-58I
634650004	BRA-PZ-60I
634650005	BRA-PZ-63I
634650006	BRA-PZ-64I
634650007	BRA-PZ-68D
634650008	BRA-APBCD-FB-02
634650009	BRA-APBCD-FD-01
634650010	BRA-APBCD-FD-02
634650011	BRA-BRGWC-50
634650012	BRA-APBCD-EB-04
634650013	BRA-PZ-44
634650014	BRA-PZ-50D
1205499174	Method Blank (MB)**ICP-MS**
1205499175	Laboratory Control Sample (LCS)
1205499178	634650001(BRA-PZ-51IL) Serial Dilution (SD)
1205499176	634650001(BRA-PZ-51IS) Matrix Spike (MS)
1205499177	634650001(BRA-PZ-51ISD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples 634650001 (BRA-PZ-51I), 634650002 (BRA-PZ-58I), 634650004 (BRA-PZ-60I), 634650005 (BRA-PZ-63I), 634650006 (BRA-PZ-64I), 634650007 (BRA-PZ-68D), 634650009 (BRA-APBCD-FD-01), 634650010 (BRA-APBCD-FD-02), 634650011 (BRA-BRGWC-50), 634650013 (BRA-PZ-44) and 634650014 (BRA-PZ-50D) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument. Per the SOP, samples 634650005 (BRA-PZ-63I), 634650009 (BRA-APBCD-FD-01), 634650010 (BRA-APBCD-FD-02), 634650011 (BRA-BRGWC-50) and 634650014 (BRA-PZ-50D) were diluted due to internal standard recoveries outside the acceptable control limits.

Analyte	634650									
	001	002	004	005	006	007	009	010	011	013
Beryllium	1X	5X	1X	10X	1X	1X	5X	10X	5X	1X
Boron	5X	5X	10X	10X	1X	5X	5X	10X	5X	10X
Calcium	5X	5X	10X	10X	10X	5X	5X	10X	5X	1X
Cobalt	1X	5X	10X	1X	1000X	1X	5X	1X	5X	1X
Iron	1X	5X	1X	1X	1X	1X	1X	1X	1X	1X
Magnesium	5X	5X	10X	10X	10X	1X	5X	10X	5X	1X
Manganese	100X	100X	1000X	10X	1000X	5X	100X	10X	100X	1X
Potassium	1X	1X	10X	1X	10X	5X	1X	1X	5X	1X
Sodium	1X	5X	10X	10X	10X	5X	5X	10X	5X	1X

Analyte	634650
	014
Beryllium	5X
Boron	5X
Calcium	5X
Magnesium	5X
Manganese	5X
Potassium	5X
Sodium	5X

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**
Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 40
Analytical Batch: 2483666

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 40
Preparation Batch: 2483665

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
634650001	BRA-PZ-51I

634650002	BRA-PZ-58I
634650004	BRA-PZ-60I
634650005	BRA-PZ-63I
634650006	BRA-PZ-64I
634650007	BRA-PZ-68D
634650008	BRA-APBCD-FB-02
634650009	BRA-APBCD-FD-01
634650010	BRA-APBCD-FD-02
634650011	BRA-BRGWC-50
634650012	BRA-APBCD-EB-04
634650013	BRA-PZ-44
634650014	BRA-PZ-50D
1205500952	Method Blank (MB)**CVAA**
1205500954	Laboratory Control Sample (LCS)
1205500958	634765001(NonSDGL) Serial Dilution (SD)
1205500956	634765001(NonSDGS) Matrix Spike (MS)
1205500957	634765001(NonSDGSD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Preparation Information
Samples in this SDG were prepared at a ten times dilution factor due to the miscellaneous liquid classification. 1205500956 (Non SDG 634765001MS), 1205500957 (Non SDG 634765001MSD) and 1205500958 (Non SDG 634765001SDILT).

General Chemistry

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 33
Analytical Batch: 2482641

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
634650001	BRA-PZ-51I
634650002	BRA-PZ-58I
634650004	BRA-PZ-60I
634650006	BRA-PZ-64I
1205499054	Method Blank (MB)
1205499055	Laboratory Control Sample (LCS)
1205499056	634643001(BRA-PZ-79) Sample Duplicate (DUP)
1205499057	634643001(BRA-PZ-79) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Sample Dilutions
The following samples 1205499056 (BRA-PZ-79DUP), 1205499057 (BRA-PZ-79PS), 634650001 (BRA-PZ-51I), 634650002 (BRA-PZ-58I), 634650004 (BRA-PZ-60I) and 634650006 (BRA-PZ-64I) were diluted because target analyte concentrations exceeded the calibration range. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	634650			
	001	**002**	**004**	**006**
Chloride	1X	5X	10X	20X
Sulfate	100X	100X	200X	200X

Miscellaneous Information

Manual Integrations
Samples 634650001 (BRA-PZ-51I), 634650002 (BRA-PZ-58I) and 634650004 (BRA-PZ-60I) were manually integrated to correctly position the baseline as set in the calibration standards.

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 33
Analytical Batch: 2482649

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
634650005	BRA-PZ-63I
634650007	BRA-PZ-68D
634650008	BRA-APBCD-FB-02
634650009	BRA-APBCD-FD-01
634650010	BRA-APBCD-FD-02
634650011	BRA-BRGWC-50
634650012	BRA-APBCD-EB-04
634650013	BRA-PZ-44
634650014	BRA-PZ-50D
1205499058	Method Blank (MB)
1205499059	Laboratory Control Sample (LCS)
1205499060	634519001(NonSDG) Sample Duplicate (DUP)
1205499061	634519001(NonSDG) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Matrix Spike (MS)/Post Spike (PS) Recovery Statement
The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Sulfate	1205499061 (Non SDG 634519001PS)	157* (90%-110%)

Technical Information

Sample Dilutions
The following samples 1205499060 (Non SDG 634519001DUP), 1205499061 (Non SDG 634519001PS), 634650005 (BRA-PZ-63I), 634650007 (BRA-PZ-68D), 634650009 (BRA-APBCD-FD-01), 634650010 (BRA-APBCD-FD-02), 634650011 (BRA-BRGWC-50), 634650013 (BRA-PZ-44) and 634650014 (BRA-PZ-50D) were diluted because target analyte concentrations exceeded the calibration range. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	634650						
	005	007	009	010	011	013	014
Chloride	1X	25X	5X	1X	5X	1X	5X
Sulfate	25X	25X	200X	25X	200X	5X	100X

Miscellaneous Information

Manual Integrations
Samples 1205499060 (Non SDG 634519001DUP), 1205499061 (Non SDG 634519001PS), 634650005 (BRA-PZ-63I), 634650007 (BRA-PZ-68D), 634650009 (BRA-APBCD-FD-01), 634650010 (BRA-APBCD-FD-02), 634650011 (BRA-BRGWC-50), 634650013 (BRA-PZ-44) and 634650014 (BRA-PZ-50D) were manually integrated to correctly position the baseline as set in the calibration standards.

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 21
Analytical Batch: 2484234

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
634650001	BRA-PZ-51I
634650002	BRA-PZ-58I

634650004	BRA-PZ-60I
634650005	BRA-PZ-63I
634650006	BRA-PZ-64I
1205502073	Method Blank (MB)
1205502074	Laboratory Control Sample (LCS)
1205502076	634643001(BRA-PZ-79) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments
A TDS meter was used to check the samples for interference prior to analysis. 1205502076 (BRA-PZ-79DUP), 634650001 (BRA-PZ-51I), 634650002 (BRA-PZ-58I), 634650004 (BRA-PZ-60I) and 634650006 (BRA-PZ-64I).

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 21
Analytical Batch: 2484583

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
634650007	BRA-PZ-68D
634650008	BRA-APBCD-FB-02
634650009	BRA-APBCD-FD-01
634650010	BRA-APBCD-FD-02
634650011	BRA-BRGWC-50
634650012	BRA-APBCD-EB-04
634650013	BRA-PZ-44
634650014	BRA-PZ-50D
1205502640	Method Blank (MB)
1205502641	Laboratory Control Sample (LCS)
1205502642	Laboratory Control Sample Duplicate (LCSD)
1205502645	634927001(NonSDG) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments

A TDS meter was used to check the samples for interference prior to analysis. 634650009 (BRA-APBCD-FD-01), 634650011 (BRA-BRGWC-50) and 634650014 (BRA-PZ-50D).

Product: **Sulfide, Total**
Analytical Method: SM 4500-S (2-) D
Analytical Procedure: GL-GC-E-052 REV# 13
Analytical Batch: 2482961

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
634650008	BRA-APBCD-FB-02
634650009	BRA-APBCD-FD-01
634650012	BRA-APBCD-EB-04
634650013	BRA-PZ-44
1205499655	Method Blank (MB)
1205499656	Laboratory Control Sample (LCS)
1205499657	634513005(NonSDG) Post Spike (PS)
1205499658	634513005(NonSDG) Post Spike Duplicate (PSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **Sulfide, Total**
Analytical Method: SM 4500-S (2-) D
Analytical Procedure: GL-GC-E-052 REV# 13
Analytical Batch: 2483779

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
634650001	BRA-PZ-51I
634650002	BRA-PZ-58I
634650003	BRA-PZ-59I
634650004	BRA-PZ-60I
634650005	BRA-PZ-63I
634650006	BRA-PZ-64I
634650007	BRA-PZ-68D
634650010	BRA-APBCD-FD-02
634650011	BRA-BRGWC-50
634650014	BRA-PZ-50D
1205501208	Method Blank (MB)
1205501209	Laboratory Control Sample (LCS)
1205501210	634615002(BRA-BRGWC-35S) Post Spike (PS)
1205501211	634615002(BRA-BRGWC-35S) Post Spike Duplicate (PSD)
1205501212	634650011(BRA-BRGWC-50) Post Spike (PS)
1205501213	634650011(BRA-BRGWC-50) Post Spike Duplicate (PSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Matrix Spike (MS)/Post Spike (PS) Recovery Statement
The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Total Sulfide	1205501210 (BRA-BRGWC-35SPS)	29.4* (75%-125%)
	1205501211 (BRA-BRGWC-35SPSD)	28.3* (75%-125%)
	1205501212 (BRA-BRGWC-50PS)	27.7* (75%-125%)
	1205501213 (BRA-BRGWC-50PSD)	27.2* (75%-125%)

Product: **Alkalinity**
Analytical Method: SM 2320B
Analytical Procedure: GL-GC-E-033 REV# 15
Analytical Batch: 2486265

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
634650001	BRA-PZ-51I
634650002	BRA-PZ-58I
634650004	BRA-PZ-60I
634650005	BRA-PZ-63I
634650006	BRA-PZ-64I
634650007	BRA-PZ-68D
634650008	BRA-APBCD-FB-02
634650009	BRA-APBCD-FD-01
634650010	BRA-APBCD-FD-02
634650011	BRA-BRGWC-50
634650012	BRA-APBCD-EB-04
634650013	BRA-PZ-44
634650014	BRA-PZ-50D
1205505688	Laboratory Control Sample (LCS)
1205505709	Laboratory Control Sample (LCS)
1205506026	Laboratory Control Sample Duplicate (LCSD)
1205506194	Laboratory Control Sample Duplicate (LCSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Laboratory Control Sample Duplicate (LCSD)
An LCSD was used in place of matrix QC due to limited sample volume. 634650001 (BRA-PZ-51I), 634650002 (BRA-PZ-58I), 634650004 (BRA-PZ-60I), 634650005 (BRA-PZ-63I), 634650006 (BRA-PZ-64I), 634650007 (BRA-PZ-68D), 634650008 (BRA-APBCD-FB-02), 634650009 (BRA-APBCD-FD-01), 634650010 (BRA-APBCD-FD-02), 634650011 (BRA-BRGWC-50), 634650012 (BRA-APBCD-EB-04), 634650013 (BRA-PZ-44) and 634650014 (BRA-PZ-50D).

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Technical Case Narrative
Georgia Power Company
SDG #: 634444

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2482703

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 14
Preparation Batch: 2482702

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
634444003	BRA-BRGWA-23S
634444004	BRA-BRGWC-30I
634444005	BRA-BRGWC-32S
634444006	BRA-PZ-61I
634444007	BRA-APBCD-FB-01
1205499164	Method Blank (MB)**ICP-MS**
1205499165	Laboratory Control Sample (LCS)
1205499168	634441003(BRA-BRGWC-34SL) Serial Dilution (SD)
1205499166	634441003(BRA-BRGWC-34SS) Matrix Spike (MS)
1205499167	634441003(BRA-BRGWC-34SSD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples 634444004 (BRA-BRGWC-30I), 634444005 (BRA-BRGWC-32S) and 634444006 (BRA-PZ-61I) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument.

Analyte	634444		
	004	005	006
Boron	20X	10X	5X
Calcium	20X	1X	5X
Magnesium	20X	1X	5X
Manganese	20X	1X	500X
Sodium	1X	1X	10X

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**
Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 40
Analytical Batch: 2482624

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 40
Preparation Batch: 2482623

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
634444003	BRA-BRGWA-23S
634444004	BRA-BRGWC-30I
634444005	BRA-BRGWC-32S
634444006	BRA-PZ-61I
634444007	BRA-APBCD-FB-01
1205499044	Method Blank (MB)**CVAA**
1205499045	Laboratory Control Sample (LCS)
1205499048	634447002(BRA-BRGWA-5SL) Serial Dilution (SD)
1205499046	634447002(BRA-BRGWA-5SD) Sample Duplicate (DUP)
1205499047	634447002(BRA-BRGWA-5SS) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

General Chemistry

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 32
Analytical Batch: 2481584

Product: **Ion Chromatography**

Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 33
Analytical Batch: 2481584

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
634444003	BRA-BRGWA-23S
634444004	BRA-BRGWC-30I
634444005	BRA-BRGWC-32S
1205497352	Method Blank (MB)
1205497353	Laboratory Control Sample (LCS)
1205497354	634441001(BRA-BRGWC-33S) Sample Duplicate (DUP)
1205497355	634441001(BRA-BRGWC-33S) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Matrix Spike (MS)/Post Spike (PS) Recovery Statement
The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Chloride	1205497355 (BRA-BRGWC-33SPS)	88.9* (90%-110%)
Nitrate-N	1205497355 (BRA-BRGWC-33SPS)	88.7* (90%-110%)

Technical Information

Sample Dilutions
The following samples 1205497354 (BRA-BRGWC-33SDUP), 1205497355 (BRA-BRGWC-33SPS), 634444004 (BRA-BRGWC-30I) and 634444005 (BRA-BRGWC-32S) were diluted because target analyte concentrations exceeded the calibration range. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	634444	
	004	005
Sulfate	100X	25X

Miscellaneous Information

Manual Integrations
Samples 634444003 (BRA-BRGWA-23S) and 634444005 (BRA-BRGWC-32S) were manually integrated to

correctly position the baseline as set in the calibration standards.

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 32
Analytical Batch: 2481608

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 33
Analytical Batch: 2481608

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
634444006	BRA-PZ-61I
634444007	BRA-APBCD-FB-01
1205497368	Method Blank (MB)
1205497369	Laboratory Control Sample (LCS)
1205497371	634145003(NonSDG) Sample Duplicate (DUP)
1205497373	634145003(NonSDG) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Sample Dilutions
The following samples 1205497371 (Non SDG 634145003DUP), 1205497373 (Non SDG 634145003PS) and 634444006 (BRA-PZ-61I) were diluted because target analyte concentrations exceeded the calibration range. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	634444006
Chloride	5X
Sulfate	200X

Sample Re-analysis
Sample 634444007 (BRA-APBCD-FB-01) was re-analyzed due to (its) proximity to an overrange sample. The results from the reanalysis are reported.

Product: **Solids, Total Dissolved**

Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 21
Analytical Batch: 2482655

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
634444003	BRA-BRGWA-23S
634444004	BRA-BRGWC-30I
634444005	BRA-BRGWC-32S
634444006	BRA-PZ-61I
634444007	BRA-APBCD-FB-01
1205499075	Method Blank (MB)
1205499076	Laboratory Control Sample (LCS)
1205499077	634352015(NonSDG) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments
A TDS meter was used to check the samples for interference prior to analysis. 634444004 (BRA-BRGWC-30I) and 634444006 (BRA-PZ-61I).

Product: **Sulfide, Total**
Analytical Method: SM 4500-S (2-) D
Analytical Procedure: GL-GC-E-052 REV# 13
Analytical Batch: 2481696

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
634444001	BRA-PZ-57I
634444002	BRA-PZ-65I
634444003	BRA-BRGWA-23S
634444004	BRA-BRGWC-30I
634444005	BRA-BRGWC-32S
634444006	BRA-PZ-61I
634444007	BRA-APBCD-FB-01
1205497559	Method Blank (MB)
1205497560	Laboratory Control Sample (LCS)
1205497561	634441001(BRA-BRGWC-33S) Post Spike (PS)
1205497562	634441001(BRA-BRGWC-33S) Post Spike Duplicate (PSD)
1205497563	634447001(BRA-BRGWA-2S) Post Spike (PS)
1205497564	634447001(BRA-BRGWA-2S) Post Spike Duplicate (PSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **Alkalinity**
Analytical Method: SM 2320B
Analytical Procedure: GL-GC-E-033 REV# 15
Analytical Batch: 2482476

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
634444003	BRA-BRGWA-23S
634444004	BRA-BRGWC-30I
634444005	BRA-BRGWC-32S
634444006	BRA-PZ-61I
634444007	BRA-APBCD-FB-01
1205498938	Laboratory Control Sample (LCS)
1205499028	Laboratory Control Sample Duplicate (LCSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Laboratory Control Sample Duplicate (LCSD)
An LCSD was used in place of matrix QC due to limited sample volume. 634444003 (BRA-BRGWA-23S), 634444004 (BRA-BRGWC-30I), 634444005 (BRA-BRGWC-32S), 634444006 (BRA-PZ-61I) and 634444007 (BRA-APBCD-FB-01).

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

634652
634650

Page: ____ of ____
Project #
GEL Quote #:
COC Number [1]:
PO Number:

GEL Laboratories LLC
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power | Phone # 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - BCD | Fax #
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: D. Barnhardt ACC | Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested [5]: (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: If known or possible Hazards	Total number of containers	Cl, F, SO4, TPH, NO3 EPA 300; SM 2540C	Total, Cond, & Hard: Alk SM 2310B	Metals * EPA 6020, 6010, 7470	N2	Radium 226 & 228 SW 846 9315, 9320	N2	Sulfide SM 4500							<-- Preservative Type (6)
BRA-PZ-51I	08/23/23	1500	G	N	WG			8	✓	✓	✓		✓		✓							
BRA-PZ-58I	08/23/23	1510	G	N	WG			8	✓	✓	✓		✓		✓							
BRA-PZ-59I	08/23/23	1140	G	N	WG			1							✓							
BRA-PZ-60I	08/23/23	1325	G	N	WG			8	✓	✓	✓		✓		✓							
BRA-PZ-63I	08/23/23	1630	G	N	WG			8	✓	✓	✓		✓		✓							
BRA-PZ-64I	08/23/23	1055	G	N	WG			8	✓	✓	✓		✓		✓							
BRA-PZ-63D	08/23/23	1608	G	N	WG			8	✓	✓	✓		✓		✓							
BRA-APBCD-FB-02	08/23/23	1450	G	N	WQ			8	✓	✓	✓		✓		✓							
BRA-APBCD-FD-01	08/23/23	—	G	N	WG			8	✓	✓	✓		✓		✓							
BRA-APBCD-FD-02	08/23/23	—	G	N	WG			8	✓	✓	✓		✓		✓							

Comments
Note: extra sample is required for sample specific QC
Task_Code: BRA-CCR-ASSMT-2023S2

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1		8/24/23	0841			
2		8/24/23	1247		8/24/23	1243
3						

TAT Requested: Normal: X Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [x] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [x] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg

For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No Cooler Temp: ____ °C

> For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)

Sample Collection Time Zone [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.

4.) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).

6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic, Ba = Barium, Cd = Cadmium, Cr = Chromium, Pb = Lead, Hg= Mercury, Se= Selenium, Ag= Silver, MR= Misc. RCRA metals

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

Page: _____ of _____
Project # _____
GEL Quote #: _____
COC Number [1]: _____
PO Number: _____

GEL Laboratories LLC

gel.com | Chemistry | Radiochemistry | Radiobioassay | Specialty Analytes

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power | Phone # 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - BCD | Fax #
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: D. Brinkley ACC | Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (?) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS, NO3 EPA 300, SM 2540C	Total, Ca, & Hardness SM 2340B	NI Metals * EPA 6020, 6010, 7470	NI Radium 226 & 228 SW-846 9315, 9320	Sulfide SM 4500	<-- Preservative Type (6)	Comments
BRA-BR6WC-50	08/23/23	1100	G	N	WG			8	✓	✓	✓	✓	✓		Note: extra sample is required for sample specific QC **Task_Code: BRA-CCR-ASSMT-2023S2**
BRA-APBCD-EB-04	08/23/23	1135	G	N	WQ			8	✓	✓	✓	✓	✓		
BRA-PZ-44	08/23/23	1640	G	N	WG			8	✓	✓	✓	✓	✓		
BRA-PZ-50D	08/23/23	1230	G	N	WG			8	✓	✓	✓	✓	✓		
BRA-															
BRA-															
BRA-															
BRA-															
BRA-															
BRA-															

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1		8/24/23	0841		8/24/23	841
2		8/24/23	1243		8/24/23	1243
3						

TAT Requested: Normal: x Rush: ____ Specify: _____ (Subject to Surcharge)

Fax Results: [ ] Yes [x] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [x] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg

For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No Cooler Temp: ____ °C

> For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.

4.) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).

6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate. If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic Hg= Mercury
Ba = Barium Se= Selenium
Cd = Cadmium Ag= Silver
Cr = Chromium MR= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

634448 634643
634652 634650
634649
634648 634615

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: LPCC	SDG/AR/COC/Work Order:
Received By: EG	Date Received: 8.24.23
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other Cooler 1 - 3° Cooler 3 - 3° Cooler 2 - 3° Cooler 4 - 2° Cooler 8. 3°

Suspected Hazard Information	Yes	No	
A) Shipped as a DOT Hazardous?		✓	If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
B) Did the client designate the samples are to be received as radioactive?		✓	Hazard Class Shipped: UN#: If UN2910, is the Radioactive Shipment Survey Compliant? Yes___ No___
C) Did the RSO classify the samples as radioactive?		✓	COC notation or radioactive stickers on containers/equipment, client designation, etc.
D) Did the client designate samples are hazardous?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM mR/Hr Classified per: Rad 1 Rad 2 Rad 3
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

Sample Receipt Criteria		Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)*	✓			Preservation Method: Wet Ice Ice Packs Dry Ice None Other: *all temperatures are recorded in Celsius TEMP: See coolers above for temps
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR9-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?			✓	Sample ID's and Containers Affected: If Preservation added, Lot#: See continuation form
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___ (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___ (If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

Cooler 6-1
Cooler 7-2
Cooler 8-4
Cooler 9-1

PM (or PMA) review: Initials AT Date 8/28/23 Page 1 of 2

GL-CHL-SR-001 Rev 7

GEL Laboratories LLC **SAMPLE RECEIPT & REVIEW CONTINUATION FORM**

Client: GPCC Received By: EG Date Received: 8/24/23 SDG/AR/COC/Work Order: _____

BRA-P2-511
BRA-P2-591
BRA-BRGWC-355
BRA-BRGWC-365
BRA-APE-FB-05
BRA-P2-601
BRA-P2-581
BRA-P2-631
BRA-BRGWC-385
BRA-P2-641
BRA-P2-68D
BRA-APBCD-FD-02
BRA-P2-50D
BRA-BRGWC-50
BRA-APE-FD-05
L7 containers for sodium hydroxide/zinc acetate did not hold preservation. Were preserved & placed in 24 hr hold preservation

PM (or PMA) review: Initials AT Date 8/28/23 Page 2 of 2

Relog for Radium

ET

GEL Laboratories LLC

Chain of Custody and Analytical Request

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

GEL Work Order Number:

GEL Project Manager: Erin Trent

Phone # 404-506-7116

Sample Analysis Requested (5): (Fill in the number of containers for each test)

Should this sample be considered:

Sample ID	*Date Collected (mm/dd/yy)	*Time Collected (HH:MM) (Military)	GC Code *	Field Filtered *	Sample Matrix *	Total number of containers	Comments
BRA-APECD-FD-03	08/24/23		G	N	WG	8	Note: extra sample is required for sample specific QC
BRA-APDCD-FB-03 •	08/24/23	0955	G	N	WQ	8	Task_Code: BRA-CCR-ASSMT-202362
BRA-BRGWL-27I •	08/24/23	1225	G	N	WG	8	
BRA-BRGWL-45 •	08/24/23	1206	G	N	WG	8	
BRA-PZ-75I •	08/24/23	1051	G	N	WG	8	
BRA-PZ-74I •	08/24/23	1415	G	N	WG	8	
BRA-SRGWL-29I •	08/24/23	1520	G	N	WG	8	
BRA-PZ-51D •	08/24/23	1100	G	N	WG	8	
BRA-APECD-FD-03 •	08/24/23	1255	G	N	WQ	8	
BRA-APBCD-FB-04 • 10	08/24/23	1400	G	N	WQ	8	

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (Signed)	Date	Time
1	08/24/23		1		0857
2			2		
3			3		

TAT Requested: Normal: X Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [x] No

Select Deliverable: [ ] COFA [ ] QC Summary [ ] Level 1 [x] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: • Metals: Ag, Al, As, Ba, Be, B, Ca, Cr, Co, Fe, Pb, Li, Mg, Mn, Ni, K, Se, Si, Na, Tl, Sn, V, Zn, U

For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No Cooler Temp: °C

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other

* For sample shipping and delivery details, see Sample Receipt & Review form (SRR).

(1) Type of Container: Glass Unpreserved

(2) QC Codes: N = Normal Sample, FB = Field Blank, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, IC = Lab Control Sample, C = Composite

(3) Field Filtered: For Dissolved analyses indicate if F = Sample was Field Filtered or N = Sample was not Field Filtered

(4) Matrix Codes: WG=Groundwater, WS=Surface Water, WW=Waste Water, SL=Leachate, SO=Soil, SE=Sediment, SI=Sludge, WQ=Water Quality Control Matrix

(5) Sample Analysis Requested: Analytical method requested (e.g. 6010B, 9012B/9014A) and number of containers provided for each (e.g. 6010B - 1, 9012B/9014A - 2)

(6) Preservative Type: HA = Nitric Acid, HN = Nitric Acid, HS = Sulfuric Acid, SA = Sulfuric Acid, AA = Ascorbic Acid, BN = Borate, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

RCRA Metals
Ag = Silver, As = Arsenic, Ba = Barium, Be = Beryllium, Cd = Cadmium, Cr = Chromium, Pb = Lead, Hg = Mercury, Se = Selenium, Ag = Silver, MM = Mixed RCRA metals

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW = Listed Waste
(K, P and U listed wastes)
Waste code(s):

Other
OT = Other / Unknown
(i.e.: High/low pH, asbestos, biohazard, unknown odor, misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

634768 & 634781

Page: ____ of ____
Project #: ____
GEL Quote #: ____
COC Number [1]: ____
PO Number: ____

GEL Laboratories LLC
Chemistry | Radiochemistry | Radiobioassay | Specialty Analysis
Chain of Custody and Analytical Request

GEL Work Order Number: ____ GEL Project Manager: Erin Treat

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power — Phone #: 404-506-7116
Project/Site Name: Plant Branch Ash Basin - 3CD — Fax #:
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: ACC — Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested [4]: (Fill in the number of containers for each test)

Sample ID	Date Collected (mm/dd/yy)	Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [5]	Should this sample be considered: (Radioactive: Qty. in g, grams, cm3, liquid, wipe, filter, etc.) (Hazardous or potentially Hazardous)	Total # of containers	EL P: 3010A (TAL, TCL), 6020 (RCRA, 8RCRA, ICP-MS), 6010B (ICP)	Total Cyanide, Sulfide, Oil & Grease: 9012B, 9034, 9065, 1664A	Nitrate-N: EPA 353.2, 4500, 7470	Perchlorate: 314.0 & 331 SW: 6850, 6860, 9320	Sulfate: 300.0, 9038	<— Preservative Type [6]
BRA-BR6WC-52I *	08/24/23	1905	G	N	WG		3	✓	✓	✓	✓	✓	
BRA-BR6WC-47 *	08/24/23	1445	G	N	WG		3	✓	✓	✓	✓	✓	
BRA-BR6WC-25I * 13	08/24/23	1647	G	N	WG		3	✓	✓	✓	✓	✓	
BRA-													
BRA-													
BRA-													
BRA-													
BRA-													
BRA-													
BRA-													

Comments
Note: extra sample is required for sample specific QC
Task_Code: BRA-OCR-ASSMT-2023S2

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	8/24/23		1		0857
			2		
3			3		

TAT Requested: Normal X Rush: ____ Specify: ____ (Subject to Surcharge)
Fax Results: [ ] Yes [X] No
Select Deliverable: [ ] C of A [ ] QC Summary [ ] Level 1 [X] Level 2 [ ] Level 3 [ ] Level 4
Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Ra,Mg,Mn,K,Na,Hg
For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No Cooler Temp: ____ °C
Sample Collection Time Zone: [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

> For sample shipping and delivery details, see Sample Receipt & Review form (SRR).

[1] Chain of Custody Number = Client Determined
[2] QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite
[3] Field Filtered: For liquid matrices, indicate with a Y = for yes the sample was field filtered or N = for sample was not field filtered.
[5] Matrix Codes: W=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix
[4] Sample Analysis Requested: Analytical method requested (i.e. RA-03 (GFPC), RA-04 (GFPC), etc.) and number of containers provided for each (i.e. 2 RA-03 (GFPC) + 1 RA-04 (GFPC) = 3).
[6] Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, TH = Thiosulfate, ST = Sodium Thiosulfate, The preservative is added = leave field blank

P3 KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic, Hg = Mercury
Ba = Barium, Se = Selenium
Cd = Cadmium, Ag = Silver
Cr = Chromium, MR = Misc RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW = Listed Waste
(F,K,P and U listed wastes)
Waste code(s): ____

Other
OT = Other / Unknown
(i.e. Explosive pit, asbestos, beryllium, arsenic, other misc. health hazards, etc.)
Description: ____

Please provide any additional details below regarding handling and/or disposal concerns. (i.e., Origin of sample(s), type of site collected from, odd matrices, etc.)

634768 634781

Page: 1 of 2
Project #:
GEL Quote #:
COC Number [1]:
PO Number:

GEL Laboratories LLC

gel.com | Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: GEL Project Manager: Erin Trent

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power | Phone # 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - BCD | Fax #
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: ACC | Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested [3] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: (Y) Radioactive (If yes, please supply isotope info.)	(Y) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS, NO3 EPA 300, SM2540C	Total Ca & Boron All: SM3120B	NI Metals * EPA 6020, 6010, 7470	NI Radium 226 & 228 SW-846 9315, 9320	Sulfide SM 4500	<-- Preservative Type (6)
BRA-APBCD-FD-03	08/24/23		G	N	WG			8	✓	✓	✓	✓	✓	
BRA-APBCD-EB-05	08/24/23	0955	G	N	WQ			8	✓	✓	✓	✓	✓	
BRA-BRGWC-27I	08/24/23	1225	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-BRGWC-45	08/24/23	1206	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-PZ-75I	08/24/23	1051	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-PZ-74I	08/24/23	1415	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-BRGWC-29I	08/24/23	1520	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-PZ-51D	08/24/23	1100	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-APBCD-FD-03	08/24/23	1255	G	N	WQ			8	✓	✓	✓	✓	✓	
BRA-APBCD-EB-06	08/24/23	1400	G	N	WQ			8	✓	✓	✓	✓	✓	

Comments: Note: extra sample is required for sample specific QC. Task_Code: BRA-CCR-ASSMT-2023S2

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1		08/24/23	1730		08/24/23	1730
2		08/25/23	0857		8/24/23	0857
3						

TAT Requested: Normal: x Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [x] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] Level 1 [x] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * Metals: B, Ca, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl, Fe, Mg, Mn, K, Na, Hg

For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No Cooler Temp: ____ °C

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

> For sample shipping and delivery details, see Sample Receipt & Review form (SRR)

Cooler 1 - 4°
Cooler 2 - 4°
Cooler 3 - 1°
Cooler 4 - 1°
Cooler 5 - 3°

1.) Chain of Custody Number = Client Determined

2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.

4.) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SD=Sediment, SL=Sludge, WQ=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).

6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

7) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic; Hg = Mercury
Ba = Barium; Se = Selenium
Cd = Cadmium; Ag = Silver
Cr = Chromium; MR = Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW = Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT = Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

Page: 2 of 2
Project #:
GEL Quote #:
COC Number (1):
PO Number:

GEL Laboratories LLC

gel.com | Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: GEL Project Manager: Erin Trent

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power | Phone # 404-506-7116

Project/Site Name: Plant Branch Ash Ponds - BCD | Fax #

Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308

Collected By: ACC | Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (*For composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotope info.)	Should this sample be considered: Hazardous or possible Hazards	Total number of containers	Cl, F, SO4, TDS, NO3 EPA 300, SM 2540C	Total, Carb, & Bicarb alk. SM 2320B	NI Metals * EPA 6020B, 6010, 7470	NI Radium 226 & 228 SW-846 9315, 9320	Sulfide SM 4500					<-- Preservative Type (6)
BRA-BR6WC-52I	08/24/23	1305	G	N	WG			8	✓	✓	✓	✓	✓					
BRA-BR6WC-47	08/24/23	1445	G	N	WG			8	✓	✓	✓	✓	✓					
BRA-BR6WC-25I	08/24/23	1647	G	N	WG			8	✓	✓	✓	✓	✓					
BRA-																		
BRA-																		
BRA-																		
BRA-																		
BRA-																		
BRA-																		
BRA-																		

Comments
Note: extra sample is required for sample specific QC
Task_Code: ERA-CCR-ASSMT-2023S2

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	8/24/23	1730	1	8/24/23	1730
2	8/25/23	0957	2	8/25/23	0857
3			3		

TAT Requested: Normal: X Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [x] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] Level 1 [x] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg

For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No Cooler Temps: ____ °C

> For sample shipping and delivery details, see Sample Receipt & Review form (SRR).

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

Cooler 1-4
Cooler 2-4
Cooler 3-1
Cooler 4-1
Cooler 5-3

1.) Chain of Custody Number = Client Determined

2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.

4.) Matrix Codes: WT=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 5, 6010B/7470A - 1).

6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic
Ba = Barium
Cd = Cadmium
Cr = Chromium
Pb = Lead
Hg = Mercury
Se = Selenium
Ag = Silver
MR = Misc. RCRA metals

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW = Listed Waste
(F,K,P and U-Listed wastes.)
Waste code(s):

Other
OT = Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of soil collected from, odd matrices, etc.)

ET

634784 634789 634768 634781

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC

SDG/AR/COC/Work Order:

Received By: EG

Date Received: 8/25/23 0857

Carrier and Tracking Number — Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other

cooler 1 - 4° cooler 3 - 1° cooler 5 - 3°

cooler 2 - 4° cooler 4 - 1°

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation
A) Shipped as a DOT Hazardous?		√	Hazard Class Shipped: UN#: If UN2910, is the Radioactive Shipment Survey Compliant? Yes__ No__
B) Did the client designate the samples are to be received as radioactive?		√	COC/Container Radioactive stickers on cooler/samples used by client designation.
C) Did the RSO classify the samples as radioactive?		√	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM / mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?		√	COC and/or Sample Labels list containers/preservation as client designated.
E) Did the RSO identify possible hazards?		√	If D or E is yes, select Hazards below. PCBs Flammable Foreign Soil RCRA Asbestos Beryllium Other:

Sample Receipt Criteria		Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	√			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	√			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 - ≤ 6 deg. C)*	√			Preservation Method: Wet Ice Ice Packs Dry Ice None Other: *all temperatures are recorded in Celsius TEMP: See above
4	Daily check performed and passed on IR temperature gun?	√			Temperature Device Serial #: IR8-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	√			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?			√	Sample IDs and Containers Affected: If Preservation added, Lot#: See below
7	Do any samples require Volatile Analysis?			√	If Yes, are Encores or Soil Kits present for soils? Yes__ No__ NA__ (If yes, take to VOA Freezer). Do liquid VOA vials contain acid preservation? Yes__ No__ NA__ (If unknown, select No). Are liquid VOA vials free of headspace? Yes__ No__ NA__ Sample ID's and containers affected:
8	Samples received within holding time?	√			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?			√	ID's and containers affected: COC says BRA-P2-74I bottles say BRA-P2-74
10	Date & time on COC match date & time on bottles?	√			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	√			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	√			
13	COC form is properly signed in relinquished/received sections?	√			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

containers BRA-P2-75I, BRA-BRGWC-27I, BRA-P2-53D & BRA-BRGWC-29I preserved with NaOH/Zinc Acetate did not hold preservation

PM or PMA review: Initials AT Date 8/28/23 Page 1 of 1

GL-CHL-SR-001 Rev 7

634444 634446

Page: _____ of _____
Project # _____
GEL Quote #: _____
COC Number (1): _____
PO Number: _____

GEL Laboratories LLC

Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

GEL Work Order Number: **GEL Project Manager: Erin Trent**

Client Name: GA Power | Phone # 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - BCD | Fax #
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: J.Brock ACC | Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If YES, please supply isotopic info.)	Should this sample be considered: (T) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS, NO3 EPA 300, SM 4500	Total Coli & Ecoli Alk SM 2320B	Metals * EPA 6020, 6010, 7470	Radium 226 & 228 SW 846 9315, 9320	Sulfide SM 4500	NI	NI	<-- Preservative Type (6)
BRA-PZ-57I	08/21/23	1755	G	N	WG			1					✓			
BRA-PZ-65I	08/21/23	1745	G	N	WG			1					✓			
BRA-BRGWA-23S	08/22/23	1240	G	N	WG			8	✓	✓	✓	✓	✓			
BRA-BRGWC-30I	08/22/23	1522	G	N	WG			8	✓	✓	✓	✓	✓			
BRA-BRGWC-32S	08/22/23	1420	G	N	WG			8	✓	✓	✓	✓	✓			
BRA-PZ-61I	08/22/23	1615	G	N	WG			8	✓	✓	✓	✓	✓			
BRA-APBCD-FB-01	08/22/23	1400	G	N	WQ			8	✓	✓	✓	✓	✓			
BRA-																
BRA-																
BRA-																

Comments
Note: extra sample is required for sample specific QC
Task_Code: BRA-CCR-ASSMT-202352

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1		8/24/23	0842		8/24/23	8:35
2		8/25/23	100		8/25/23	1300
3						

TAT Requested: Normal: 5 Rush: _____ Specify: _____ (Subject to Surcharge)

Fax Results: [ ] Yes [x] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [x] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg

For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No Cooler Temp: _____ °C

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR).*

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other

1) Chain of Custody Number = Client Determined

2) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered

4) Matrix Codes: **WD**=Drinking Water, **WG**=Groundwater, **WS**=Surface Water, **WW**=Waste Water, **WL**=Leachate, **SO**=Soil, **SE**=Sediment, **SL**=Sludge, **WQ**=Water Quality Control Matrix

5) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1)

6) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

~~634444~~ 634643
634448 634447
634443 634450
634441 634444
634445

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: CCC

SDG/AR/COC/Work Order:

Received By: MVH

Date Received: 8-23-2013

Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other

Carrier and Tracking Number: Cooler 2-3°C Cooler 4-1°C Cooler 6-1°C Cooler 1-2°C Cooler 3-1°C Cooler 5-2°C

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation
A) Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM / mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on box/containers equal client designation.
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

Sample Receipt Criteria		Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)*	✓			Preservation Method: Wet Ice Ice Packs Dry Ice None Other: *all temperatures are recorded in Celsius TEMP:___
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR2-11 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?				Sample ID's and Container Affected: BRA-D2-G11, BRA-BRGWA-S1, BRA-BRGWA-23S, If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___ (If yes, take to VOA Freezer) 5035 liquid VOA vials contain acid preservation? Yes___ No___ NA___ (If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & times on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):
BRA-D2-13S, BRA-BRGWA-2S, BRA-BRGWA-6S, BRA-BRGWC-32S, BRA-BRGWA-21, BRA-BRGWC-37S, BRA-BRGWC-34S, BRA-BRGWC-30I Sulfide samples didn't hold proper preservation.

PM (or PMA) review: Initials AT Date 8/25/13 Page 1 of 1

GL-CHL-SR-001 Rev 7

Amanda Turner

From: Abraham, Joju <JABRAHAM@SOUTHERNCO.COM>
Sent: Friday, August 25, 2023 8:52 AM
To: Amanda Turner; Jurinko, Kristen Nichole; Smilley, Michael Jay; Gangi, Noelia S.; Midkiff, Laura B.
Cc: Team Trent
Subject: RE: Samples did not hold preservation (634441, 634443, 634444, 634446, 634447, 634450)

[EXTERNAL EMAIL] DO NOT CLICK links or attachments unless you recognize the sender and know the content is safe.

Re-preserve and analyze for sulfide in all samples.

JA

From: Amanda Turner <Amanda.Turner@gel.com>
Sent: Friday, August 25, 2023 8:29 AM
To: Abraham, Joju <JABRAHAM@SOUTHERNCO.COM>; Jurinko, Kristen Nichole <KNJURINK@SOUTHERNCO.COM>; Smilley, Michael Jay <MJSMILLE@SOUTHERNCO.COM>; Gangi, Noelia S. <NSMUSKUS@SOUTHERNCO.COM>; Midkiff, Laura B. <lbmidkif@southernco.com>
Cc: Team Trent <Team.Trent@gel.com>
Subject: Samples did not hold preservation (634441, 634443, 634444, 634446, 634447, 634450)

Good morning,

I wanted to notify you of the following preservation issues. These samples did not hold proper sulfide preservation. Please advise.

"BRA-GWC-34S" "BRA-BRGWC-37S" "BRA-PZ-13S" on work orders 634441 and 634443
“BRA-BRGWC-32S” “BRA-BRGWC-30I” "BRA-PZ-61I" "BRA-BRGWA-23S" on work orders 634444 and 634446
"BRA-BRGWA-2S" "BRA-BRGWA-6S" "BRA-BRGWA-2I" "BRA-BRAW-5I" on work orders 634447 and 634450

See attachments for reference.

Thank you!
Amanda

Amanda Turner
Project Manager Assistant
GEL Laboratories LLC EST. 1981
2040 Savage Road, Charleston, SC 29407
Office Main: 843.556.8171 | Fax: 843.766.1178
E-Mail: amanda.turner@gel.com | Website: www.gel.com [gel.com]
Analytical Testing
[gellaboratories.com] [linkedin.com]

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Amanda Turner

From: Amanda Turner
Sent: Tuesday, August 29, 2023 10:04 AM
To: JABRAHAM@SOUTHERNCO.COM; KNJURINK@SOUTHERNCO.COM; MJSMILLE@SOUTHERNCO.COM; NSMUSKUS@SOUTHERNCO.COM; lbmidkif@southernco.com
Cc: Team Trent
Subject: Preservation issues (634652, 634650, 634648, 634615)
Attachments: 634648 634615.pdf; 634652 634650.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

Good morning!

I wanted to notify you of the following preservation issues. The samples containers for sodium hydroxide/zinc acetate listed below did not hold preservation. The samples were preserved upon receipt and placed on a 24-hour preservation hold.

"BRA-PZ-51I" "BRA-PZ-60I" "BRA-PZ-58I" "BRA-PZ-63I" "BRA-PZ-64I" "BRA-PZ-68D" "BRA-APBCD-FD-02" "BRA-PZ-50D" "BRA-BRGWC-50" for work orders 634652 and 634650

"BRA-PZ-59I" for work order 634650

"BRA-BRGWC-35S" "BRA-BRGWC-36S" BRA-APE-FB-08" "BRA-BRGWC-38S" "BRA-APE-FD-05" for work orders 634648 and 634615

See attachments for reference.

Thank you!
Amanda

Amanda Turner
Project Manager Assistant
GEL Laboratories LLC EST. 1981
2040 Savage Road, Charleston, SC 29407
Office Main: 843.556.8171 | Fax: 843.766.1178
E-Mail: amanda.turner@gel.com | Website: www.gel.com
Analytical Testing

List of current GEL Certifications as of 07 September 2023

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122023-4
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2022-160
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-22-20
Utah NELAP	SC000122022-37
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC

a member of The GEL Group INC

September 06, 2023

Joju Abraham
Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308

Re: Branch CCR Groundwater Compliance PZ-79
Work Order: 634448

Dear Joju Abraham:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on August 23, 2023. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The sample was delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. Please see attached email regarding a change to the sample ID. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Recieved
634448001	BRA-PZ-79	Ground Water	22/08/23 11:25	23/08/23 13:00

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Prep Methods and Prep Dates

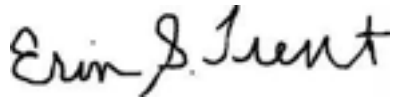
Method	Run Date ID
SW846 3005A	25-AUG-2023

Analysis Methods and Analysis Dates

Method	Run Date ID
EPA 300.0	23-AUG-2023
EPA 300.0	24-AUG-2023
SM 2320B	29-AUG-2023
SM 2540C	28-AUG-2023
SM 4500-S (2-) D	24-AUG-2023
SW846 3005A/6020B	01-SEP-2023
SW846 3005A/6020B	31-AUG-2023

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4504.

Sincerely,



Erin Trent
Project Manager

Purchase Order: GPC82177-0006
Enclosures

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 634448 GEL Work Order: 634448

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL

J Value is estimated

N/A RPD or %Recovery limits do not apply.

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Erin Trent.

Reviewed by Erin B. Trent

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 6, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater CompliancePZ-79

Client Sample ID:	BRA-PZ-79	Project:	GPCC00101
Sample ID:	634448001	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	22-AUG-23 11:25		
Receive Date:	23-AUG-23		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		2.73	0.0670	0.200	mg/L		1	JLD1	08/23/23	2134	2481584	1
Fluoride		2.21	0.0330	0.100	mg/L		1					
Nitrate-N		0.140	0.0330	0.100	mg/L		1					
Sulfate		817	13.3	40.0	mg/L		100	JLD1	08/24/23	1222	2481584	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Iron		2.63	0.0330	0.100	mg/L	1.00	1	PRB	08/31/23	2351	2482703	3
Magnesium		13.3	0.0100	0.0300	mg/L	1.00	1					
Selenium		0.0681	0.00150	0.00500	mg/L	1.00	1					
Boron		1.98	0.104	0.300	mg/L	1.00	20	PRB	09/01/23	0932	2482703	4
Calcium		264	1.60	4.00	mg/L	1.00	20					
Potassium		50.7	1.60	6.00	mg/L	1.00	20					
Sodium		63.9	1.60	5.00	mg/L	1.00	20					
Manganese		0.274	0.00100	0.00500	mg/L	1.00	1	PRB	09/01/23	0930	2482703	5
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1320	4.76	20.0	mg/L			CH6	08/28/23	1403	2482658	6
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/24/23	1749	2481696	7
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		65.8	0.725	2.00	mg/L			JW2	08/29/23	1151	2484392	8
Bicarbonate alkalinity (CaCO3)		65.8	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482702

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 6, 2023

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater CompliancePZ-79

Client Sample ID:	BRA-PZ-79	Project:	GPCC00101
Sample ID:	634448001	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 4500-S (2-) D	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

QC Summary

Report Date: September 6, 2023

Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia

Contact: **Joju Abraham**

Workorder: **634448**

Parmname	NOM		Sample	Qual	QC	Units	RPD%		REC%	Range	Anlst	Date Time
Ion Chromatography												
Batch 2481584												
QC1205497354 634441001 DUP												
Chloride			32.7		32.5	mg/L	0.522	^		(+/-10.0)	JLD1	08/24/23 01:49
Fluoride			0.123		0.124	mg/L	1.13	^		(+/-0.100)		08/24/23 00:14
Nitrate-N		J	0.0707	J	0.0739	mg/L	4.43	^		(+/-0.100)		
Sulfate			466		474	mg/L	1.69			(0%-20%)		08/24/23 01:49
QC1205497353 LCS												
Chloride	5.00				4.64	mg/L			92.8	(90%-110%)		08/23/23 23:42
Fluoride	2.50				2.37	mg/L			94.6	(90%-110%)		
Nitrate-N	2.50				2.27	mg/L			91	(90%-110%)		
Sulfate	10.0				9.48	mg/L			94.8	(90%-110%)		
QC1205497352 MB												
Chloride				U	ND	mg/L						08/23/23 23:10
Fluoride				U	ND	mg/L						
Nitrate-N				U	ND	mg/L						
Sulfate				U	ND	mg/L						
QC1205497355 634441001 PS												
Chloride	5.00		0.654		5.10	mg/L			88.9 *	(90%-110%)		08/24/23 02:21

QC Summary

Workorder: **634448**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography											
Batch 2481584											
Fluoride	2.50		0.123		2.56	mg/L		97.3	(90%-110%)	JLD1	08/24/23 00:45
Nitrate-N	2.50	J	0.0707		2.29	mg/L		88.7*	(90%-110%)		
Sulfate	10.0		9.32		18.8	mg/L		94.3	(90%-110%)		08/24/23 02:21
Metals Analysis - ICPMS											
Batch 2482703											
QC1205499165 LCS											
Boron	0.100				0.103	mg/L		103	(80%-120%)	PRB	08/31/23 22:21
Calcium	2.00				1.96	mg/L		98	(80%-120%)		
Iron	2.00				2.02	mg/L		101	(80%-120%)		
Magnesium	2.00				1.97	mg/L		98.4	(80%-120%)		
Manganese	0.0500				0.0497	mg/L		99.4	(80%-120%)		09/01/23 08:52
Potassium	2.00				1.94	mg/L		97	(80%-120%)		08/31/23 22:21
Selenium	0.0500				0.0493	mg/L		98.7	(80%-120%)		
Sodium	2.00				1.95	mg/L		97.6	(80%-120%)		
QC1205499164 MB											
Boron				U	ND	mg/L					08/31/23 22:18
Calcium				U	ND	mg/L					
Iron				U	ND	mg/L					

QC Summary

Workorder: **634448**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2482703										
Magnesium			U	ND	mg/L				PRB	08/31/23 22:18
Manganese			U	ND	mg/L					09/01/23 08:50
Potassium			U	ND	mg/L					08/31/23 22:18
Selenium			U	ND	mg/L					
Sodium			U	ND	mg/L					
QC1205499166 634441003 MS										
Boron	0.100	1.90		2.08	mg/L		N/A	(75%-125%)		09/01/23 09:00
Calcium	2.00	83.4		88.8	mg/L		N/A	(75%-125%)		
Iron	2.00 U	ND		2.06	mg/L		102	(75%-125%)		08/31/23 22:36
Magnesium	2.00	18.9		21.3	mg/L		N/A	(75%-125%)		
Manganese	0.0500	3.33		3.48	mg/L		N/A	(75%-125%)		09/01/23 09:00
Potassium	2.00	3.52		5.59	mg/L		104	(75%-125%)		08/31/23 22:36
Selenium	0.0500 U	ND		0.0531	mg/L		106	(75%-125%)		
Sodium	2.00	20.7		23.1	mg/L		N/A	(75%-125%)		
QC1205499167 634441003 MSD										
Boron	0.100	1.90		2.00	mg/L	4.07	N/A	(0%-20%)		09/01/23 09:02
Calcium	2.00	83.4		84.1	mg/L	5.45	N/A	(0%-20%)		

QC Summary

Workorder: **634448**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2482703											
Iron	2.00	U	ND		2.00	mg/L	2.95	98.6	(0%-20%)	PRB	08/31/23 22:39
Magnesium	2.00		18.9		20.7	mg/L	2.55	N/A	(0%-20%)		
Manganese	0.0500		3.33		3.35	mg/L	3.62	N/A	(0%-20%)		09/01/23 09:02
Potassium	2.00		3.52		5.37	mg/L	4.12	92.4	(0%-20%)		08/31/23 22:39
Selenium	0.0500	U	ND		0.0512	mg/L	3.53	102	(0%-20%)		
Sodium	2.00		20.7		22.6	mg/L	2.28	N/A	(0%-20%)		
QC1205499168 634441003 SDILT											
Boron			95.1		20.6	ug/L	8.16		(0%-20%)		09/01/23 09:04
Calcium			4170		869	ug/L	4.2		(0%-20%)		
Iron		U	ND	U	ND	ug/L	N/A		(0%-20%)		08/31/23 22:46
Magnesium			18900		3500	ug/L	7.29		(0%-20%)		
Manganese			167		33.7	ug/L	1.09		(0%-20%)		09/01/23 09:04
Potassium			3520		680	ug/L	3.4		(0%-20%)		08/31/23 22:46
Selenium		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Sodium			20700		3830	ug/L	7.8		(0%-20%)		

QC Summary

Workorder: **634448**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Solids Analysis										
Batch 2482658										
QC1205499082 634606001 DUP										
Total Dissolved Solids		7330		7490	mg/L	2.16		(0%-5%)	CH6	08/28/23 14:03
QC1205499080 LCS										
Total Dissolved Solids	300			301	mg/L		100	(95%-105%)		08/28/23 14:03
QC1205499079 MB										
Total Dissolved Solids			U	ND	mg/L					08/28/23 14:03
Spectrometric Analysis										
Batch 2481696										
QC1205497560 LCS										
Total Sulfide	0.400			0.398	mg/L		99.6	(85%-115%)	JW2	08/24/23 17:36
QC1205497559 MB										
Total Sulfide			U	ND	mg/L					08/24/23 17:36
QC1205497561 634441001 PS										
Total Sulfide	0.400	U	ND	0.363	mg/L		90.8	(75%-125%)		08/24/23 17:37
QC1205497563 634447001 PS										
Total Sulfide	0.400	U	ND	0.420	mg/L		105	(75%-125%)		08/24/23 17:46
QC1205497562 634441001 PSD										
Total Sulfide	0.400	U	ND	0.367	mg/L	1.09	91.8	(0%-15%)		08/24/23 17:38
QC1205497564 634447001 PSD										
Total Sulfide	0.400	U	ND	0.412	mg/L	1.92	103	(0%-15%)		08/24/23 17:47
Titration and Ion Analysis										
Batch 2484392										
QC1205502340 634448001 DUP										
Alkalinity, Total as CaCO3		65.8		65.5	mg/L	0.457		(0%-20%)	JW2	08/29/23 11:54

QC Summary

Workorder: **634448**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Titration and Ion Analysis										
Batch 2484392										
Bicarbonate alkalinity (CaCO3)		65.8		65.5	mg/L	0.457		(0%-20%)	JW2	08/29/23 11:54
Carbonate alkalinity (CaCO3)	U	ND	U	ND	mg/L	N/A				
QC1205502342 634643001 DUP										
Alkalinity, Total as CaCO3		80.2		80.4	mg/L	0.249		(0%-20%)		08/29/23 12:16
Bicarbonate alkalinity (CaCO3)		80.2		80.4	mg/L	0.249		(0%-20%)		
Carbonate alkalinity (CaCO3)	U	ND	U	ND	mg/L	N/A				
QC1205502339 LCS										
Alkalinity, Total as CaCO3	50.0			51.8	mg/L		104	(90%-110%)		08/29/23 11:37
QC1205502344 LCS										
Alkalinity, Total as CaCO3	15.0			14.8	mg/L		98.7	(90%-110%)		08/29/23 11:38
QC1205502341 634448001 MS										
Alkalinity, Total as CaCO3	50.0	65.8		118	mg/L		104	(80%-120%)		08/29/23 11:54
QC1205502343 634643001 MS										
Alkalinity, Total as CaCO3	50.0	80.2		132	mg/L		103	(80%-120%)		08/29/23 12:17

Notes:

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- N Metals--The Matrix spike sample recovery is not within specified control limits
- H Analytical holding time was exceeded
- < Result is less than value reported
- > Result is greater than value reported
- h Preparation or preservation holding time was exceeded

QC Summary

Workorder: **634448**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

R	Sample results are rejected
Z	Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
d	5-day BOD--The 2:1 depletion requirement was not met for this sample
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
E	%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
E	General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
FB	Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
R	Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.
B	The target analyte was detected in the associated blank.
e	5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes
J	See case narrative for an explanation

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2482703

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 14
Preparation Batch: 2482702

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
634448001	BRA-PZ-79
1205499164	Method Blank (MB)**ICP-MS**
1205499165	Laboratory Control Sample (LCS)
1205499168	634441003(BRA-BRGWC-34SL) Serial Dilution (SD)
1205499166	634441003(BRA-BRGWC-34SS) Matrix Spike (MS)
1205499167	634441003(BRA-BRGWC-34SSD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Sample 634448001 (BRA-PZ-79) was diluted to ensure that the analyte concentration was within the linear calibration range of the instrument.

Analyte	**634448**
	001
Boron	20X
Calcium	20X
Potassium	20X

Sodium	20X

General Chemistry

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 32
Analytical Batch: 2481584

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 33
Analytical Batch: 2481584

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
634448001	BRA-PZ-79
1205497352	Method Blank (MB)
1205497353	Laboratory Control Sample (LCS)
1205497354	634441001(BRA-BRGWC-33S) Sample Duplicate (DUP)
1205497355	634441001(BRA-BRGWC-33S) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Matrix Spike (MS)/Post Spike (PS) Recovery Statement
The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Chloride	1205497355 (BRA-BRGWC-33SPS)	88.9* (90%-110%)
Nitrate-N	1205497355 (BRA-BRGWC-33SPS)	88.7* (90%-110%)

Technical Information

Sample Dilutions
The following samples 1205497354 (BRA-BRGWC-33SDUP), 1205497355 (BRA-BRGWC-33SPS) and 634448001 (BRA-PZ-79) were diluted because target analyte concentrations exceeded the calibration range. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	634448
	001
Sulfate	100X

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 21
Analytical Batch: 2482658

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
634448001	BRA-PZ-79
1205499079	Method Blank (MB)
1205499080	Laboratory Control Sample (LCS)
1205499082	634606001(NonSDG) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments
A TDS meter was used to check the samples for interference prior to analysis. 1205499082 (Non SDG 634606001DUP) and 634448001 (BRA-PZ-79).

Product: **Sulfide, Total**
Analytical Method: SM 4500-S (2-) D
Analytical Procedure: GL-GC-E-052 REV# 13
Analytical Batch: 2481696

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
634448001	BRA-PZ-79
1205497559	Method Blank (MB)
1205497560	Laboratory Control Sample (LCS)
1205497561	634441001(BRA-BRGWC-33S) Post Spike (PS)
1205497562	634441001(BRA-BRGWC-33S) Post Spike Duplicate (PSD)
1205497563	634447001(BRA-BRGWA-2S) Post Spike (PS)
1205497564	634447001(BRA-BRGWA-2S) Post Spike Duplicate (PSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **Alkalinity**
Analytical Method: SM 2320B
Analytical Procedure: GL-GC-E-033 REV# 15
Analytical Batch: 2484392

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
634448001	BRA-PZ-79
1205502339	Laboratory Control Sample (LCS)
1205502340	634448001(BRA-PZ-79) Sample Duplicate (DUP)
1205502341	634448001(BRA-PZ-79) Matrix Spike (MS)
1205502342	634643001(BRA-PZ-79) Sample Duplicate (DUP)
1205502343	634643001(BRA-PZ-79) Matrix Spike (MS)
1205502344	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

634448 634443

Page: _____ of _____
Project #: _____
GEL Quote #: _____
COC Number [11]: _____
PO Number: _____

GEL Laboratories LLC
gel.com
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power | Phone #: 404-506-7116
Project/Site Name: Plant Branch Ash Ponds | Fax #
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: D. Brasel ACC | Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested [9] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (*) hazard or possible Hazards	Total number of containers	Cl, F, SO4, TDS, NO3 EPA 300, SM 2540C	Total, Ca, & Boron Alk SM 2320B	Metals * EPA 6020	Sulfide SM 4500								← Preservative Type (6)
BRA-PZ-79(in.)	08/22/23	1125	G	N	WG			4	✓	✓	✓	✓								initial sample
BRA-PZ-79			G		WG															stabilized sample

Comments
Note: extra sample is required for sample specific QC
Task Code: BRA-CCR-OTH-20230822

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	8/23/23	0832		8/23/23	8:32
2	8/23/23	1100		8.8.23	1300
3			3		

TAT Requested: Normal: X Rush: ____ Specify: _____ (Subject to Surcharge)

Fax Results: [ ] Yes [x] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [x] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * Metals: B,Ca,Se,Fe,Mg,Mn,K,Na

For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No *Cooler Temp:* ____ °C

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR).*

Sample Collection Time Zone [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a "**Y**" for yes the sample was field filtered or "**N**" for sample was not field filtered.

4.) Matrix Codes: **WD**=Drinking Water, **WG**=Groundwater, **WS**=Surface Water, **WW**=Waste Water, **WL**=Leachate, **SO**=Soil, **SE**=Sediment, **SL**=Sludge, **WQ**=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B = 3, 6010B/7470A = 1).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank.

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

~~634444~~ 634643
634448 634447
634443 634450
634441 634444
634446

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: CCP — SDG/AR/COC/Work Order:

Received By: MVH — Date Received: 8-23-2013

Carrier and Tracking Number — Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other

Cooler 2-3°C Cooler 4-1°C Cooler Co-1°C
Cooler 1-2°C Cooler 3-1°C Cooler 5-2°C

Suspected Hazard Information	Yes	No	
			*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A) Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, is the Radioactive Shipment Survey Complete? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC Notified if Radioactive, stickers on containers upon client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): CPM/cm2/RAD/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?		✓	If D or E is yes, select Hazards below.
E) Did the RSO identify possible hazards?		✓	PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

Sample Receipt Criteria		Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: Wet Ice Ice Packs Dry Ice None Other: *all temperatures are recorded in Celsius TEMP:___
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR-21 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?			✓	Sample ID's and containers affected: BRA-DZ-GW, BRA-BRGWA-SW, BRA-BRGWA-23S, If preservatives added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for soil(s)? Yes___ No___ NA___ (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___ (If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):
BRA-DZ-BS, BRA-BRGWA-2S, BRA-BRGWA-6S, BRA-BRGWC-32S, BRA-BRGWA-21, BRA-BRGWC-37S, BRA-BGWC-34S, BRA-BRGWC-30I Sulfide Samples didn't hold proper preservation.

PM (or PMA) review: Initials AJ Date 8/28/13 Page 1 of 1

GL-CHL-SR-001 Rev 7

Erin Trent

From: Courtney Collins <CCollins@Geosyntec.com>
Sent: Tuesday, August 29, 2023 9:02 AM
To: Erin Trent; Team Trent
Cc: lbmidkif@southernco.com
Subject: FW: GEL Sample Receipt 634448 for Branch CCR Groundwater Compliance
Attachments: 634448coclr.pdf

[EXTERNAL EMAIL] DO NOT CLICK links or attachments unless you recognize the sender and know the content is safe.

Good morning Erin,

I have an additional sample ID change request for SDG 634448. Please revise it from BRA-PZ-79 (in.) to BRA-PZ-79. While there is another sample with the same ID provided in a separate SDG for this event, it was collected on a different date but it is from the same location.

Thank you,

Courtney Collins
Geosyntec Consultants, Inc.
Office: +1 678.718.4771
Mobile: +1 678.596.6738

From: GEL Data <data@gellaboratories.com>
Sent: Friday, August 25, 2023 2:52 PM
To: jabraham@southernco.com; betsy.mcdaniel@atlcc.net; Chris.parker@atlcc.net; monte.jones@atlcc.net; Lauren Fitzgerald <LAFitzgerald@Geosyntec.com>; Kendall Brome <Kendall.Brome@Geosyntec.com>; KNJURINK@SOUTHERNCO.COM; MJSMILLE@SOUTHERNCO.COM; NSMUSKUS@SOUTHERNCO.COM; lbmidkif@southernco.com; Courtney Collins <CCollins@Geosyntec.com>
Subject: GEL Sample Receipt 634448 for Branch CCR Groundwater Compliance

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe. If you have any suspicion, please confirm with the sender verbally that this email is authentic. If you suspect fraud, click "Phish Alert Report."

GEL Laboratories, LLC received sample(s) on August 23, 2023. The final data is due to report on September 06, 2023. Please review the attached PDF. Should you find any discrepancies within the document, please call or email your project manager Erin Trent.

Do not reply to data@gellaboratories.com as this email address is not monitored. Please contact your project manager, Erin Trent, at Team.Trent@gel.com regarding this message or its attachments.

List of current GEL Certifications as of 06 September 2023

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122023-4
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2022-160
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-22-20
Utah NELAP	SC000122022-37
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

September 07, 2023

Joju Abraham
Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308

Re: Branch CCR Groundwater Compliance PZ-79
Work Order: 634643

Dear Joju Abraham:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on August 24, 2023. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The sample was delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Recieved
634643001	BRA-PZ-79	Ground Water	23/08/23 10:10	24/08/23 13:00

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Prep Methods and Prep Dates

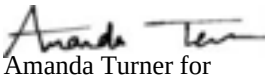
Method	Run Date ID
SW846 3005A	25-AUG-2023

Analysis Methods and Analysis Dates

Method	Run Date ID
EPA 300.0	24-AUG-2023
EPA 300.0	25-AUG-2023
SM 2320B	29-AUG-2023
SM 2540C	29-AUG-2023
SM 4500-S (2-) D	25-AUG-2023
SW846 3005A/6020B	06-SEP-2023
SW846 3005A/6020B	07-SEP-2023

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4504.

Sincerely,



Amanda Turner for
Erin Trent
Project Manager

Purchase Order: GPC82177-0006
Enclosures

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 634643 GEL Work Order: 634643

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL

J Value is estimated

N/A RPD or %Recovery limits do not apply.

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Erin Trent.

Reviewed by Amanda Tew

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 7, 2023

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater CompliancePZ-79

Client Sample ID:	BRA-PZ-79	Project:	GPCC00101
Sample ID:	634643001	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	23-AUG-23 10:10		
Receive Date:	24-AUG-23		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		761	13.3	40.0	mg/L		100	LXA2	08/25/23	1507	2482641	1
Chloride		2.56	0.0670	0.200	mg/L		1	LXA2	08/24/23	1658	2482641	2
Fluoride		2.34	0.0330	0.100	mg/L		1					
Nitrate-N	J	0.0737	0.0330	0.100	mg/L		1					
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Iron		0.243	0.0330	0.100	mg/L	1.00	1	PRB	09/06/23	2210	2482705	3
Magnesium		12.1	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.256	0.00100	0.00500	mg/L	1.00	1					
Selenium		0.0760	0.00150	0.00500	mg/L	1.00	1					
Boron		1.95	0.104	0.300	mg/L	1.00	20	PRB	09/07/23	1025	2482705	4
Calcium		272	1.60	4.00	mg/L	1.00	20					
Potassium		59.4	1.60	6.00	mg/L	1.00	20					
Sodium		74.3	1.60	5.00	mg/L	1.00	20					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1270	4.76	20.0	mg/L			CH6	08/29/23	1603	2484234	5
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/25/23	1054	2482961	6
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		80.2	0.725	2.00	mg/L			JW2	08/29/23	1215	2484392	7
Bicarbonate alkalinity (CaCO3)		80.2	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482704

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 7, 2023

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater CompliancePZ-79

Client Sample ID:	BRA-PZ-79	Project:	GPCC00101
Sample ID:	634643001	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	
6	SM 4500-S (2-) D	
7	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

QC Summary

Report Date: September 7, 2023

Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia

Contact: **Joju Abraham**

Workorder: **634643**

Parmname	NOM		Sample	Qual	QC	Units	RPD%		REC%	Range	Anlst	Date Time
Ion Chromatography												
Batch 2482641												
QC1205499056 634643001 DUP												
Chloride			2.56		2.56	mg/L	0.235			(0%-20%)	LXA2	08/24/23 23:40
Fluoride			2.34		2.35	mg/L	0.435			(0%-20%)		
Nitrate-N		J	0.0737	J	0.0724	mg/L	1.78	^		(+/-0.100)		
Sulfate			761		761	mg/L	0.0329			(0%-20%)		08/25/23 15:38
QC1205499055 LCS												
Chloride	5.00				4.61	mg/L			92.3	(90%-110%)		08/24/23 22:06
Fluoride	2.50				2.40	mg/L			96	(90%-110%)		
Nitrate-N	2.50				2.31	mg/L			92.4	(90%-110%)		
Sulfate	10.0				9.50	mg/L			95	(90%-110%)		
QC1205499054 MB												
Chloride				U	ND	mg/L						08/24/23 23:09
Fluoride				U	ND	mg/L						
Nitrate-N				U	ND	mg/L						
Sulfate				U	ND	mg/L						
QC1205499057 634643001 PS												
Chloride	5.00		2.56		7.48	mg/L			98.4	(90%-110%)		08/25/23 00:11

QC Summary

Workorder: **634643**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography											
Batch 2482641											
Fluoride	2.50		2.34		4.86	mg/L		101	(90%-110%)	LXA2	08/25/23 00:11
Nitrate-N	2.50	J	0.0737		2.40	mg/L		92.9	(90%-110%)		
Sulfate	10.0		7.61		17.7	mg/L		101	(90%-110%)		08/25/23 16:09
Metals Analysis - ICPMS											
Batch 2482705											
QC1205499170 LCS											
Boron	0.100				0.111	mg/L		111	(80%-120%)	PRB	09/06/23 21:01
Calcium	2.00				2.11	mg/L		105	(80%-120%)		09/07/23 09:49
Iron	2.00				2.05	mg/L		102	(80%-120%)		09/06/23 21:01
Magnesium	2.00				2.09	mg/L		104	(80%-120%)		
Manganese	0.0500				0.0497	mg/L		99.4	(80%-120%)		
Potassium	2.00				2.02	mg/L		101	(80%-120%)		
Selenium	0.0500				0.0478	mg/L		95.7	(80%-120%)		
Sodium	2.00				2.16	mg/L		108	(80%-120%)		09/07/23 09:49
QC1205499169 MB											
Boron				U	ND	mg/L					09/06/23 20:58
Calcium				U	ND	mg/L					09/07/23 09:47
Iron				U	ND	mg/L					09/06/23 20:58

QC Summary

Workorder: **634643**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2482705											
Magnesium				U	ND	mg/L				PRB	09/06/23 20:58
Manganese				U	ND	mg/L					
Potassium				U	ND	mg/L					
Selenium				U	ND	mg/L					
Sodium				U	ND	mg/L					09/07/23 09:47
QC1205499171 634615001 MS											
Boron	0.100		0.0601		0.170	mg/L		110	(75%-125%)		09/06/23 21:09
Calcium	2.00		47.9		49.7	mg/L		N/A	(75%-125%)		09/07/23 10:00
Iron	2.00	J	0.0446		2.04	mg/L		99.9	(75%-125%)		09/06/23 21:09
Magnesium	2.00		24.7		27.2	mg/L		N/A	(75%-125%)		
Manganese	0.0500	U	ND		0.0498	mg/L		99	(75%-125%)		
Potassium	2.00		1.19		3.21	mg/L		101	(75%-125%)		
Selenium	0.0500	J	0.00214		0.0529	mg/L		102	(75%-125%)		
Sodium	2.00		24.3		26.5	mg/L		N/A	(75%-125%)		09/07/23 10:00
QC1205499172 634615001 MSD											
Boron	0.100		0.0601		0.169	mg/L	0.597	109	(0%-20%)		09/06/23 21:12
Calcium	2.00		47.9		47.5	mg/L	4.48	N/A	(0%-20%)		09/07/23 10:02

QC Summary

Workorder: **634643**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2482705											
Iron	2.00	J	0.0446		2.02	mg/L	0.88	99	(0%-20%)	PRB	09/06/23 21:12
Magnesium	2.00		24.7		26.1	mg/L	4.35	N/A	(0%-20%)		
Manganese	0.0500	U	ND		0.0491	mg/L	1.28	97.7	(0%-20%)		
Potassium	2.00		1.19		3.12	mg/L	2.62	96.9	(0%-20%)		
Selenium	0.0500	J	0.00214		0.0511	mg/L	3.51	97.9	(0%-20%)		
Sodium	2.00		24.3		25.2	mg/L	4.79	N/A	(0%-20%)		09/07/23 10:02
QC1205499173 634615001 SDILT											
Boron			60.1	J	12.2	ug/L	1.49		(0%-20%)		09/06/23 21:20
Calcium			9580		1920	ug/L	.186		(0%-20%)		09/07/23 10:07
Iron		J	44.6	U	ND	ug/L	N/A		(0%-20%)		09/06/23 21:20
Magnesium			24700		5300	ug/L	7.32		(0%-20%)		
Manganese		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Potassium			1190	J	231	ug/L	2.54		(0%-20%)		
Selenium		J	2.14	U	ND	ug/L	N/A		(0%-20%)		
Sodium			4860		988	ug/L	1.66		(0%-20%)		09/07/23 10:07

QC Summary

Workorder: **634643**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Solids Analysis											
Batch 2484234											
QC1205502076 634643001 DUP											
Total Dissolved Solids			1270		1280	mg/L	0.94		(0%-5%)	CH6	08/29/23 16:03
QC1205502074 LCS											
Total Dissolved Solids	300				301	mg/L		100	(95%-105%)		08/29/23 16:03
QC1205502073 MB											
Total Dissolved Solids				U	ND	mg/L					08/29/23 16:03
Spectrometric Analysis											
Batch 2482961											
QC1205499656 LCS											
Total Sulfide	0.400				0.399	mg/L		99.7	(85%-115%)	JW2	08/25/23 10:42
QC1205499655 MB											
Total Sulfide				U	ND	mg/L					08/25/23 10:42
QC1205499657 634513005 PS											
Total Sulfide	0.400	U	ND		0.389	mg/L		96.4	(75%-125%)		08/25/23 10:48
QC1205499658 634513005 PSD											
Total Sulfide	0.400	U	ND		0.391	mg/L	0.511	96.9	(0%-15%)		08/25/23 10:48
Titration and Ion Analysis											
Batch 2484392											
QC1205502340 634448001 DUP											
Alkalinity, Total as CaCO3			65.8		65.5	mg/L	0.457		(0%-20%)	JW2	08/29/23 11:54
Bicarbonate alkalinity (CaCO3)			65.8		65.5	mg/L	0.457		(0%-20%)		
Carbonate alkalinity (CaCO3)		U	ND	U	ND	mg/L	N/A				
QC1205502342 634643001 DUP											
Alkalinity, Total as CaCO3			80.2		80.4	mg/L	0.249		(0%-20%)		08/29/23 12:16

QC Summary

Workorder: **634643**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Titration and Ion Analysis										
Batch 2484392										
Bicarbonate alkalinity (CaCO3)		80.2		80.4	mg/L	0.249		(0%-20%)	JW2	08/29/23 12:16
Carbonate alkalinity (CaCO3)	U	ND	U	ND	mg/L	N/A				
QC1205502339 LCS										
Alkalinity, Total as CaCO3	50.0			51.8	mg/L		104	(90%-110%)		08/29/23 11:37
QC1205502344 LCS										
Alkalinity, Total as CaCO3	15.0			14.8	mg/L		98.7	(90%-110%)		08/29/23 11:38
QC1205502341 634448001 MS										
Alkalinity, Total as CaCO3	50.0	65.8		118	mg/L		104	(80%-120%)		08/29/23 11:54
QC1205502343 634643001 MS										
Alkalinity, Total as CaCO3	50.0	80.2		132	mg/L		103	(80%-120%)		08/29/23 12:17

Notes:

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- N Metals--The Matrix spike sample recovery is not within specified control limits
- H Analytical holding time was exceeded
- < Result is less than value reported
- > Result is greater than value reported
- h Preparation or preservation holding time was exceeded
- R Sample results are rejected
- Z Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
- d 5-day BOD--The 2:1 depletion requirement was not met for this sample
- ^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
- N/A RPD or %Recovery limits do not apply.
- ND Analyte concentration is not detected above the detection limit
- E %difference of sample and SD is >10%. Sample concentration must meet flagging criteria

QC Summary

Workorder: **634643**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
E	General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
FB	Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
R	Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.
B	The target analyte was detected in the associated blank.
e	5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes
J	See case narrative for an explanation

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2482705

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 14
Preparation Batch: 2482704

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
634643001	BRA-PZ-79
1205499169	Method Blank (MB)**ICP-MS**
1205499170	Laboratory Control Sample (LCS)
1205499173	634615001(BRA-BRGWC-17SL) Serial Dilution (SD)
1205499171	634615001(BRA-BRGWC-17SS) Matrix Spike (MS)
1205499172	634615001(BRA-BRGWC-17SSD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Sample 634643001 (BRA-PZ-79) was diluted to ensure that the analyte concentration was within the linear calibration range of the instrument.

Analyte	**634643001**
Boron	20X
Calcium	20X
Potassium	20X

Sodium	20X

General Chemistry

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 33
Analytical Batch: 2482641

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
634643001	BRA-PZ-79
1205499054	Method Blank (MB)
1205499055	Laboratory Control Sample (LCS)
1205499056	634643001(BRA-PZ-79) Sample Duplicate (DUP)
1205499057	634643001(BRA-PZ-79) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Sample Dilutions
The following samples 1205499056 (BRA-PZ-79DUP), 1205499057 (BRA-PZ-79PS) and 634643001 (BRA-PZ-79) were diluted because target analyte concentrations exceeded the calibration range. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	**634643 001**
Sulfate	100X

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 21
Analytical Batch: 2484234

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
634643001	BRA-PZ-79
1205502073	Method Blank (MB)
1205502074	Laboratory Control Sample (LCS)

1205502076	634643001(BRA-PZ-79) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments
A TDS meter was used to check the samples for interference prior to analysis. 1205502076 (BRA-PZ-79DUP) and 634643001 (BRA-PZ-79).

Product: **Sulfide, Total**
Analytical Method: SM 4500-S (2-) D
Analytical Procedure: GL-GC-E-052 REV# 13
Analytical Batch: 2482961

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
634643001	BRA-PZ-79
1205499655	Method Blank (MB)
1205499656	Laboratory Control Sample (LCS)
1205499657	634513005(NonSDG) Post Spike (PS)
1205499658	634513005(NonSDG) Post Spike Duplicate (PSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **Alkalinity**
Analytical Method: SM 2320B
Analytical Procedure: GL-GC-E-033 REV# 15
Analytical Batch: 2484392

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
634643001	BRA-PZ-79
1205502339	Laboratory Control Sample (LCS)
1205502340	634448001(BRA-PZ-79) Sample Duplicate (DUP)
1205502341	634448001(BRA-PZ-79) Matrix Spike (MS)
1205502342	634643001(BRA-PZ-79) Sample Duplicate (DUP)
1205502343	634643001(BRA-PZ-79) Matrix Spike (MS)

1205502344 Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Page: ____ of ____
Project # ____
GEL Quote #: ____
COC Number [1]: ____
PO Number: ____

GEL Laboratories LLC
Chemistry | Radiochemistry | Radiotoxicology | Specialty Analytics

Chain of Custody and Analytical Request

634448
634643

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power | Phone # 404-506-7116
Project/Site Name: Plant Branch Ash Ponds | Fax #
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: ACC | Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested [5]: (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (T) Known or possible Hazards	Total number of containers	CLP, EPA, TDS, HCO EPA 300, SM 2540C	Total, Ca, K, Mg, Na SM 3120B	Ni	Metals * EPA 6020	Sulfide SM 4500	<-- Preservative Type (6)	Comments
BRA-PZ-79(in.)			G		WG										Note: extra sample is required for sample specific QC. Task_Code: BRA-CCR-OTH-2023 [illegible]
BRA-PZ-79	8/23/23	1010	G	N	WG			4	✓	✓	✓	✓			initial sample
															stabilized sample

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	8/24/23	0841		8/24/23	841
2	8/24/23	1241	2	8/24/23	1243
3			3		

TAT Requested: Normal: x Rush: ____ Specify: ____ (Subject to Surcharge)
Fax Results: [ ] Yes [x] No
Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [x] Level 2 [ ] Level 3 [ ] Level 4
Additional Remarks: * Metals: B,Ca,Sn,Fe,Mg,Mn,K,Na
For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No *Cooler Temp:* ____ °C

> For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.

4.) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).

6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

*) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic; Hg= Mercury
Ba = Barium; Se= Selenium
Cd = Cadmium; Ag= Silver
Cr = Chromium; MR= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

634448 634643
634652 634650
634649
634648 634615

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM 634

Client: GPCC	SDG/AR/COC/Work Order:
Received By: EG	Date Received: 8.24.23
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other Cooler 1 - 3° Cooler 3 - 3° Cooler 2 - 3° Cooler 4 - 2° Cooler 5. 3°

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A) Shipped as a DOT Hazardous?		/	Hazard Class Shipped: UN#: If UN2910, is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		/	Did client designate any samples are to be received as radioactive?
C) Did the RSO classify the samples as radioactive?		/	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?		/	Did client designate any samples are hazardous? If so, please list any codes (e.g. RCRA waste codes) in the comments section.
E) Did the RSO identify possible hazards?		/	If D or E is yes, select Hazards below. PCBs Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	/			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	/			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)*	/			Preservation Method: Wet Ice Ice Packs Dry Ice None Other: *all temperatures are recorded in Celsius TEMP: See coolers above & below for temps
4	Daily check performed and passed on IR temperature gun?	/			Temperature Device Serial #: IR6-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	/			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?			/	Sample ID's and Containers Affected: If Preservation added, Lot#: See continuation form
7	Do any samples require Volatile Analysis?			/	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___ (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___ (If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	/			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	/			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	/			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	/			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	/			
13	COC form is properly signed in relinquished/received sections?	/			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

Cooler 6-1
Cooler 7-2
Cooler 8-4
Cooler 9-1

PM (or PMA) review: Initials AT Date 8/28/23 Page 1 of 2

GL-GHL-SR-001 Rev 7

GEL | Laboratories LLC **SAMPLE RECEIPT & REVIEW CONTINUATION FORM**

Client: GPCC Received By: EG Date Received: 8/24/23 SDG/AR/COC/Work Order: _____

BRA-P2-511
BRA-P2-591
BRA-BRGWC-355
BRA-BRGWC-365
BRA-APE-FB-01
BRA-P2-601
BRA-P2-581
BRA-P2-631
BRA-BRGWC-385
BRA-P2-641
BRA-P2-68D
BRA-APBLD-FD-02
BRA-P2-50D
BRA-BRGWC-50
BRA-APE-FD-05
L7 containers for sodium hydroxide/zinc acetate did not hold preservation. Were preserved & placed in 24 hr hold preservation

PM (or PMA) review: Initials AT Date 8/28/23 Page 2 of 2

List of current GEL Certifications as of 07 September 2023

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122023-4
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2022-160
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-22-20
Utah NELAP	SC000122022-37
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC

a member of The GEL Group INC

September 06, 2023

Joju Abraham
Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308

Re: Branch CCR Groundwater Compliance Upgradient
Work Order: 634447

Dear Joju Abraham:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on August 23, 2023. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. Samples "BRA-BRGWA-2S" "BRA-BRGWA-6S" "BRA-BRAW-5I" and "BRA-BRGWA-2I" did not hold sulfide preservation. *634447001(BRA-BRGWA-2S), 634447003(BRA-BRGWA-5I), 634447004(BRA-BRGWA-6S), 634447005(BRA-BRGWA-2I)*. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Recieved
634447001	BRA-BRGWA-2S	Ground Water	22/08/23 10:06	23/08/23 13:00
634447002	BRA-BRGWA-5S	Ground Water	22/08/23 10:05	23/08/23 13:00
634447003	BRA-BRGWA-5I	Ground Water	22/08/23 10:10	23/08/23 13:00
634447004	BRA-BRGWA-6S	Ground Water	22/08/23 10:15	23/08/23 13:00
634447005	BRA-BRGWA-2I	Ground Water	22/08/23 10:12	23/08/23 13:00

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Prep Methods and Prep Dates

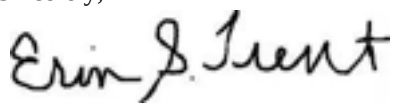
Method	Run Date ID
SW846 3005A	25-AUG-2023
SW846 7470A Prep	24-AUG-2023

Analysis Methods and Analysis Dates

Method	Run Date ID
EPA 300.0	23-AUG-2023
SM 2320B	29-AUG-2023
SM 2540C	25-AUG-2023
SM 2540C	28-AUG-2023
SM 4500-S (2-) D	24-AUG-2023
SW846 3005A/6020B	01-SEP-2023
SW846 3005A/6020B	31-AUG-2023
SW846 7470A	25-AUG-2023

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4504.

Sincerely,



Erin Trent
Project Manager

Purchase Order: GPC82177-0006
Enclosures

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 634447 GEL Work Order: 634447

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL

J Value is estimated

N/A RPD or %Recovery limits do not apply.

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Erin Trent.

Reviewed by Erin B. Trent

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 6, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceUpgradient

Client Sample ID: BRA-BRGWA-2S
Sample ID: 634447001
Matrix: WG
Collect Date: 22-AUG-23 10:06
Receive Date: 23-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		2.14	0.0670	0.200	mg/L		1	HXC1	08/23/23	1637	2481608	1
Fluoride		0.229	0.0330	0.100	mg/L		1					
Nitrate-N		0.218	0.0330	0.100	mg/L		1					
Sulfate		0.526	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/25/23	1221	2482624	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	08/31/23	2333	2482703	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0135	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron	J	0.00738	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		5.02	0.0800	0.200	mg/L	1.00	1					
Chromium	J	0.00921	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000707	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0513	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		4.66	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		0.415	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		3.09	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Manganese		0.0283	0.00100	0.00500	mg/L	1.00	1	PRB	09/01/23	0936	2482703	4
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		36.0	2.38	10.0	mg/L			CH6	08/25/23	1010	2482655	5
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/24/23	1745	2481696	6

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 6, 2023

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater ComplianceUpgradient

Client Sample ID:	BRA-BRGWA-2S	Project:	GPCC00101
Sample ID:	634447001	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		37.1	0.725	2.00	mg/L			JW2	08/29/23	1140	2484392	7
Bicarbonate alkalinity (CaCO3)		37.1	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482702
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/24/23	1200	2482623

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	
6	SM 4500-S (2-) D	
7	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 6, 2023

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater ComplianceUpgradient

Client Sample ID:	BRA-BRGWA-5S	Project:	GPCC00101
Sample ID:	634447002	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	22-AUG-23 10:05		
Receive Date:	23-AUG-23		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		3.37	0.0670	0.200	mg/L		1	HXC1	08/23/23	1707	2481608	1
Fluoride		0.277	0.0330	0.100	mg/L		1					
Nitrate-N		0.203	0.0330	0.100	mg/L		1					
Sulfate		0.540	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/25/23	1222	2482624	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	08/31/23	2337	2482703	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0352	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron	J	0.00764	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		14.9	0.0800	0.200	mg/L	1.00	1					
Chromium	J	0.00472	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000327	0.000300	0.00100	mg/L	1.00	1					
Iron		0.263	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		6.25	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		0.435	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		3.48	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Manganese		0.0105	0.00100	0.00500	mg/L	1.00	1	PRB	09/01/23	0939	2482703	4
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		73.0	2.38	10.0	mg/L			CH6	08/25/23	1010	2482655	5
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/24/23	1747	2481696	6

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Certificate of Analysis

Report Date: September 6, 2023

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater ComplianceUpgradient

Client Sample ID:	BRA-BRGWA-5S	Project:	GPCC00101
Sample ID:	634447002	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		68.4	0.725	2.00	mg/L			JW2	08/29/23	1142	2484392	7
Bicarbonate alkalinity (CaCO3)		68.4	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482702
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/24/23	1200	2482623

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	
6	SM 4500-S (2-) D	
7	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 6, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceUpgradient

Client Sample ID: BRA-BRGWA-5I
Sample ID: 634447003
Matrix: WG
Collect Date: 22-AUG-23 10:10
Receive Date: 23-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		3.53	0.0670	0.200	mg/L		1	HXC1	08/23/23	1738	2481608	1
Fluoride		0.289	0.0330	0.100	mg/L		1					
Nitrate-N		0.266	0.0330	0.100	mg/L		1					
Sulfate		1.83	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/25/23	1231	2482624	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	08/31/23	2340	2482703	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0245	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron	J	0.00730	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		14.3	0.0800	0.200	mg/L	1.00	1					
Chromium	J	0.00701	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000474	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0953	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		9.41	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	J	0.000953	0.000200	0.00100	mg/L	1.00	1					
Potassium		0.933	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		4.69	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Manganese	J	0.00104	0.00100	0.00500	mg/L	1.00	1	PRB	09/01/23	0941	2482703	4
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		80.0	2.38	10.0	mg/L			CH6	08/28/23	1403	2482658	5
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/24/23	1748	2481696	6

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Certificate of Analysis

Report Date: September 6, 2023

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater ComplianceUpgradient

Client Sample ID:	BRA-BRGWA-5I	Project:	GPCC00101
Sample ID:	634447003	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		77.2	0.725	2.00	mg/L			JW2	08/29/23	1144	2484392	7
Bicarbonate alkalinity (CaCO3)		77.2	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482702
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/24/23	1200	2482623

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	
6	SM 4500-S (2-) D	
7	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 6, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceUpgradient

Client Sample ID: BRA-BRGWA-6S
Sample ID: 634447004
Matrix: WG
Collect Date: 22-AUG-23 10:15
Receive Date: 23-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		2.34	0.0670	0.200	mg/L		1	HXC1	08/23/23	1809	2481608	1
Fluoride	J	0.0787	0.0330	0.100	mg/L		1					
Nitrate-N		0.646	0.0330	0.100	mg/L		1					
Sulfate		0.467	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/25/23	1236	2482624	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Manganese	J	0.00120	0.00100	0.00500	mg/L	1.00	1	PRB	09/01/23	0943	2482703	3
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	08/31/23	2344	2482703	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0143	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron	J	0.00611	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		3.79	0.0800	0.200	mg/L	1.00	1					
Chromium		0.0132	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		3.48	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		0.607	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		2.11	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		30.0	2.38	10.0	mg/L			CH6	08/28/23	1403	2482658	5
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/24/23	1748	2481696	6

GEL LABORATORIES LLC
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Certificate of Analysis

Report Date: September 6, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceUpgradient

Client Sample ID: BRA-BRGWA-6S
Sample ID: 634447004
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		36.8	0.725	2.00	mg/L			JW2	08/29/23	1147	2484392	7
Bicarbonate alkalinity (CaCO3)		36.8	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482702
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/24/23	1200	2482623

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	
6	SM 4500-S (2-) D	
7	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 6, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceUpgradient

Client Sample ID: BRA-BRGWA-2I
Sample ID: 634447005
Matrix: WG
Collect Date: 22-AUG-23 10:12
Receive Date: 23-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		1.90	0.0670	0.200	mg/L		1	HXC1	08/23/23	1840	2481608	1
Fluoride		0.267	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate		6.85	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/25/23	1237	2482624	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	08/31/23	2348	2482703	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.00680	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron	J	0.00649	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		12.6	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000707	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0904	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0209	0.00300	0.0100	mg/L	1.00	1					
Magnesium		7.27	0.0100	0.0300	mg/L	1.00	1					
Molybdenum		0.00169	0.000200	0.00100	mg/L	1.00	1					
Potassium		5.25	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		5.26	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Manganese		0.0145	0.00100	0.00500	mg/L	1.00	1	PRB	09/01/23	0945	2482703	4
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		81.0	2.38	10.0	mg/L			CH6	08/28/23	1403	2482658	5
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/24/23	1749	2481696	6

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Certificate of Analysis

Report Date: September 6, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceUpgradient

Client Sample ID: BRA-BRGWA-2I
Sample ID: 634447005
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		71.7	0.725	2.00	mg/L			JW2	08/29/23	1149	2484392	7
Bicarbonate alkalinity (CaCO3)		71.7	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482702
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/24/23	1200	2482623

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	
6	SM 4500-S (2-) D	
7	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

QC Summary

Report Date: September 6, 2023

Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia

Contact: **Joju Abraham**

Workorder: **634447**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography										
Batch 2481608										
QC1205497371 634145003 DUP										
Chloride		78.8		79.7	mg/L	1.1		(0%-20%)	HXC1	08/24/23 15:05
Fluoride		0.719		0.719	mg/L	0.0417		(0%-20%)		08/23/23 20:43
Nitrate-N		10.9		11.0	mg/L	0.894 ^		(+/-2.50)		08/24/23 15:05
Sulfate		37.6		37.5	mg/L	0.306 ^		(+/-10.0)		
QC1205497369 LCS										
Chloride	5.00			4.78	mg/L		95.6	(90%-110%)		08/23/23 23:18
Fluoride	2.50			2.46	mg/L		98.3	(90%-110%)		
Nitrate-N	2.50			2.36	mg/L		94.3	(90%-110%)		
Sulfate	10.0			9.76	mg/L		97.6	(90%-110%)		
QC1205497368 MB										
Chloride			U	ND	mg/L					08/23/23 22:47
Fluoride			U	ND	mg/L					
Nitrate-N			U	ND	mg/L					
Sulfate			U	ND	mg/L					
QC1205497373 634145003 PS										
Chloride	5.00	3.15		8.45	mg/L		106	(90%-110%)		08/24/23 15:36

QC Summary

Workorder: **634447**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography										
Batch 2481608										
Fluoride	2.50	0.719		3.17	mg/L		98	(90%-110%)	HXC1	08/23/23 21:14
Nitrate-N	2.50	0.434		2.85	mg/L		96.5	(90%-110%)		08/24/23 15:36
Sulfate	10.0	1.51		11.3	mg/L		98.4	(90%-110%)		
Metals Analysis - ICPMS										
Batch 2482703										
QC1205499165 LCS										
Antimony	0.0500			0.0492	mg/L		98.4	(80%-120%)	PRB	08/31/23 22:21
Arsenic	0.0500			0.0500	mg/L		99.9	(80%-120%)		
Barium	0.0500			0.0522	mg/L		104	(80%-120%)		
Beryllium	0.0500			0.0527	mg/L		105	(80%-120%)		
Boron	0.100			0.103	mg/L		103	(80%-120%)		
Cadmium	0.0500			0.0502	mg/L		100	(80%-120%)		
Calcium	2.00			1.96	mg/L		98	(80%-120%)		
Chromium	0.0500			0.0515	mg/L		103	(80%-120%)		
Cobalt	0.0500			0.0514	mg/L		103	(80%-120%)		
Iron	2.00			2.02	mg/L		101	(80%-120%)		
Lead	0.0500			0.0518	mg/L		104	(80%-120%)		

QC Summary

Workorder: **634447**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2482703										
Lithium	0.0500			0.0506	mg/L		101	(80%-120%)	PRB	08/31/23 22:21
Magnesium	2.00			1.97	mg/L		98.4	(80%-120%)		
Manganese	0.0500			0.0497	mg/L		99.4	(80%-120%)		09/01/23 08:52
Molybdenum	0.0500			0.0499	mg/L		99.8	(80%-120%)		08/31/23 22:21
Potassium	2.00			1.94	mg/L		97	(80%-120%)		
Selenium	0.0500			0.0493	mg/L		98.7	(80%-120%)		
Sodium	2.00			1.95	mg/L		97.6	(80%-120%)		
Thallium	0.0500			0.0507	mg/L		101	(80%-120%)		
QC1205499164 MB										
Antimony			U	ND	mg/L					08/31/23 22:18
Arsenic			U	ND	mg/L					
Barium			U	ND	mg/L					
Beryllium			U	ND	mg/L					
Boron			U	ND	mg/L					
Cadmium			U	ND	mg/L					
Calcium			U	ND	mg/L					

QC Summary

Workorder: **634447**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2482703										
Chromium			U	ND	mg/L				PRB	08/31/23 22:18
Cobalt			U	ND	mg/L					
Iron			U	ND	mg/L					
Lead			U	ND	mg/L					
Lithium			U	ND	mg/L					
Magnesium			U	ND	mg/L					
Manganese			U	ND	mg/L					09/01/23 08:50
Molybdenum			U	ND	mg/L					08/31/23 22:18
Potassium			U	ND	mg/L					
Selenium			U	ND	mg/L					
Sodium			U	ND	mg/L					
Thallium			U	ND	mg/L					
QC1205499166 634441003 MS										
Antimony	0.0500	U	ND	0.0511	mg/L		102	(75%-125%)		08/31/23 22:36
Arsenic	0.0500	U	ND	0.0528	mg/L		105	(75%-125%)		
Barium	0.0500		0.0268	0.0800	mg/L		106	(75%-125%)		

QC Summary

Workorder: **634447**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2482703											
Beryllium	0.0500	U	ND		0.0531	mg/L		106	(75%-125%)	PRB	08/31/23 22:36
Boron	0.100		1.90		2.08	mg/L		N/A	(75%-125%)		09/01/23 09:00
Cadmium	0.0500	U	ND		0.0511	mg/L		102	(75%-125%)		08/31/23 22:36
Calcium	2.00		83.4		88.8	mg/L		N/A	(75%-125%)		09/01/23 09:00
Chromium	0.0500	U	ND		0.0518	mg/L		103	(75%-125%)		08/31/23 22:36
Cobalt	0.0500		0.00384		0.0554	mg/L		103	(75%-125%)		
Iron	2.00	U	ND		2.06	mg/L		102	(75%-125%)		
Lead	0.0500	U	ND		0.0511	mg/L		102	(75%-125%)		
Lithium	0.0500	U	ND		0.0521	mg/L		102	(75%-125%)		
Magnesium	2.00		18.9		21.3	mg/L		N/A	(75%-125%)		
Manganese	0.0500		3.33		3.48	mg/L		N/A	(75%-125%)		09/01/23 09:00
Molybdenum	0.0500	U	ND		0.0527	mg/L		105	(75%-125%)		08/31/23 22:36
Potassium	2.00		3.52		5.59	mg/L		104	(75%-125%)		
Selenium	0.0500	U	ND		0.0531	mg/L		106	(75%-125%)		
Sodium	2.00		20.7		23.1	mg/L		N/A	(75%-125%)		

QC Summary

Workorder: **634447**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2482703											
Thallium	0.0500	U	ND		0.0503	mg/L		101	(75%-125%)	PRB	08/31/23 22:36
QC1205499167 634441003 MSD											
Antimony	0.0500	U	ND		0.0491	mg/L	4.07	98.1	(0%-20%)		08/31/23 22:39
Arsenic	0.0500	U	ND		0.0508	mg/L	3.79	101	(0%-20%)		
Barium	0.0500		0.0268		0.0757	mg/L	5.49	97.8	(0%-20%)		
Beryllium	0.0500	U	ND		0.0506	mg/L	4.96	101	(0%-20%)		
Boron	0.100		1.90		2.00	mg/L	4.07	N/A	(0%-20%)		09/01/23 09:02
Cadmium	0.0500	U	ND		0.0496	mg/L	2.97	98.7	(0%-20%)		08/31/23 22:39
Calcium	2.00		83.4		84.1	mg/L	5.45	N/A	(0%-20%)		09/01/23 09:02
Chromium	0.0500	U	ND		0.0504	mg/L	2.88	101	(0%-20%)		08/31/23 22:39
Cobalt	0.0500		0.00384		0.0540	mg/L	2.65	100	(0%-20%)		
Iron	2.00	U	ND		2.00	mg/L	2.95	98.6	(0%-20%)		
Lead	0.0500	U	ND		0.0493	mg/L	3.6	98.5	(0%-20%)		
Lithium	0.0500	U	ND		0.0509	mg/L	2.35	99.9	(0%-20%)		
Magnesium	2.00		18.9		20.7	mg/L	2.55	N/A	(0%-20%)		
Manganese	0.0500		3.33		3.35	mg/L	3.62	N/A	(0%-20%)		09/01/23 09:02

QC Summary

Workorder: **634447**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2482703											
Molybdenum	0.0500	U	ND		0.0512	mg/L	2.82	102	(0%-20%)	PRB	08/31/23 22:39
Potassium	2.00		3.52		5.37	mg/L	4.12	92.4	(0%-20%)		
Selenium	0.0500	U	ND		0.0512	mg/L	3.53	102	(0%-20%)		
Sodium	2.00		20.7		22.6	mg/L	2.28	N/A	(0%-20%)		
Thallium	0.0500	U	ND		0.0488	mg/L	3.06	97.5	(0%-20%)		
QC1205499168 634441003 SDILT											
Antimony		U	ND	U	ND	ug/L	N/A		(0%-20%)		08/31/23 22:46
Arsenic		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Barium			26.8		5.04	ug/L	6.03		(0%-20%)		
Beryllium		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Boron			95.1		20.6	ug/L	8.16		(0%-20%)		09/01/23 09:04
Cadmium		U	ND	U	ND	ug/L	N/A		(0%-20%)		08/31/23 22:46
Calcium			4170		869	ug/L	4.2		(0%-20%)		09/01/23 09:04
Chromium		U	ND	U	ND	ug/L	N/A		(0%-20%)		08/31/23 22:46
Cobalt			3.84	J	0.796	ug/L	3.56		(0%-20%)		
Iron		U	ND	U	ND	ug/L	N/A		(0%-20%)		

QC Summary

Workorder: **634447**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2482703										
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)	PRB	08/31/23 22:46
Lithium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Magnesium		18900		3500	ug/L	7.29		(0%-20%)		
Manganese		167		33.7	ug/L	1.09		(0%-20%)		09/01/23 09:04
Molybdenum	U	ND	U	ND	ug/L	N/A		(0%-20%)		08/31/23 22:46
Potassium		3520		680	ug/L	3.4		(0%-20%)		
Selenium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Sodium		20700		3830	ug/L	7.8		(0%-20%)		
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Metals Analysis-Mercury										
Batch 2482624										
QC1205499046 634447002 DUP										
Mercury	U	ND	U	ND	mg/L	N/A			JP2	08/25/23 12:24
QC1205499045 LCS										
Mercury 0.00200				0.00199	mg/L		99.5	(80%-120%)		08/25/23 11:58
QC1205499044 MB										
Mercury			U	ND	mg/L					08/25/23 11:56
QC1205499047 634447002 MS										
Mercury 0.00200	U	ND		0.00199	mg/L		99.5	(75%-125%)		08/25/23 12:26

QC Summary

Workorder: **634447**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis-Mercury											
Batch 2482624											
QC1205499048 634447002 SDILT											
Mercury		U	ND	U	ND	ug/L	N/A		(0%-10%)	JP2	08/25/23 12:27
Solids Analysis											
Batch 2482655											
QC1205499077 634352015 DUP											
Total Dissolved Solids		U	ND	U	ND	mg/L	N/A			CH6	08/25/23 10:10
QC1205499076 LCS											
Total Dissolved Solids	300				301	mg/L		100	(95%-105%)		08/25/23 10:10
QC1205499075 MB											
Total Dissolved Solids				U	ND	mg/L					08/25/23 10:10
Batch 2482658											
QC1205499081 634205010 DUP											
Total Dissolved Solids			400		390	mg/L	2.53		(0%-5%)	CH6	08/28/23 14:03
QC1205499080 LCS											
Total Dissolved Solids	300				301	mg/L		100	(95%-105%)		08/28/23 14:03
QC1205499079 MB											
Total Dissolved Solids				U	ND	mg/L					08/28/23 14:03
Spectrometric Analysis											
Batch 2481696											
QC1205497560 LCS											
Total Sulfide	0.400				0.398	mg/L		99.6	(85%-115%)	JW2	08/24/23 17:36
QC1205497559 MB											
Total Sulfide				U	ND	mg/L					08/24/23 17:36
QC1205497561 634441001 PS											
Total Sulfide	0.400	U	ND		0.363	mg/L		90.8	(75%-125%)		08/24/23 17:37

QC Summary

Workorder: **634447**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Spectrometric Analysis											
Batch 2481696											
QC1205497563 634447001 PS											
Total Sulfide	0.400	U	ND		0.420	mg/L		105	(75%-125%)	JW2	08/24/23 17:46
QC1205497562 634441001 PSD											
Total Sulfide	0.400	U	ND		0.367	mg/L	1.09	91.8	(0%-15%)		08/24/23 17:38
QC1205497564 634447001 PSD											
Total Sulfide	0.400	U	ND		0.412	mg/L	1.92	103	(0%-15%)		08/24/23 17:47
Titration and Ion Analysis											
Batch 2484392											
QC1205502340 634448001 DUP											
Alkalinity, Total as CaCO3			65.8		65.5	mg/L	0.457		(0%-20%)	JW2	08/29/23 11:54
Bicarbonate alkalinity (CaCO3)			65.8		65.5	mg/L	0.457		(0%-20%)		
Carbonate alkalinity (CaCO3)		U	ND	U	ND	mg/L	N/A				
QC1205502342 634643001 DUP											
Alkalinity, Total as CaCO3			80.2		80.4	mg/L	0.249		(0%-20%)		08/29/23 12:16
Bicarbonate alkalinity (CaCO3)			80.2		80.4	mg/L	0.249		(0%-20%)		
Carbonate alkalinity (CaCO3)		U	ND	U	ND	mg/L	N/A				
QC1205502339 LCS											
Alkalinity, Total as CaCO3	50.0				51.8	mg/L		104	(90%-110%)		08/29/23 11:37
QC1205502344 LCS											
Alkalinity, Total as CaCO3	15.0				14.8	mg/L		98.7	(90%-110%)		08/29/23 11:38
QC1205502341 634448001 MS											
Alkalinity, Total as CaCO3	50.0		65.8		118	mg/L		104	(80%-120%)		08/29/23 11:54

QC Summary

Workorder: **634447**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Titration and Ion Analysis											
Batch 2484392											
QC1205502343 634643001 MS											
Alkalinity, Total as CaCO3	50.0	80.2		132	mg/L		103	(80%-120%)	JW2	08/29/23	12:17

Notes:

The Qualifiers in this report are defined as follows:

U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
N	Metals--The Matrix spike sample recovery is not within specified control limits
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
Z	Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
d	5-day BOD--The 2:1 depletion requirement was not met for this sample
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
E	%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
E	General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
FB	Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
R	Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.
B	The target analyte was detected in the associated blank.
e	5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes
J	See case narrative for an explanation

QC Summary

Workorder: **634447**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2482703

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 14
Preparation Batch: 2482702

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
634447001	BRA-BRGWA-2S
634447002	BRA-BRGWA-5S
634447003	BRA-BRGWA-5I
634447004	BRA-BRGWA-6S
634447005	BRA-BRGWA-2I
1205499164	Method Blank (MB)**ICP-MS**
1205499165	Laboratory Control Sample (LCS)
1205499168	634441003(BRA-BRGWC-34SL) Serial Dilution (SD)
1205499166	634441003(BRA-BRGWC-34SS) Matrix Spike (MS)
1205499167	634441003(BRA-BRGWC-34SSD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**
Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 40
Analytical Batch: 2482624

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 40

Preparation Batch: 2482623

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
634447001	BRA-BRGWA-2S
634447002	BRA-BRGWA-5S
634447003	BRA-BRGWA-5I
634447004	BRA-BRGWA-6S
634447005	BRA-BRGWA-2I
1205499044	Method Blank (MB)**CVAA**
1205499045	Laboratory Control Sample (LCS)
1205499048	634447002(BRA-BRGWA-5SL) Serial Dilution (SD)
1205499046	634447002(BRA-BRGWA-5SD) Sample Duplicate (DUP)
1205499047	634447002(BRA-BRGWA-5SS) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

General Chemistry

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 32
Analytical Batch: 2481608

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
634447001	BRA-BRGWA-2S
634447002	BRA-BRGWA-5S
634447003	BRA-BRGWA-5I
634447004	BRA-BRGWA-6S
634447005	BRA-BRGWA-2I
1205497368	Method Blank (MB)
1205497369	Laboratory Control Sample (LCS)
1205497371	634145003(NonSDG) Sample Duplicate (DUP)
1205497373	634145003(NonSDG) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Sample Dilutions
The following samples 1205497371 (Non SDG 634145003DUP) and 1205497373 (Non SDG 634145003PS) were diluted because target analyte concentrations exceeded the calibration range. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 21
Analytical Batch: 2482655

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
634447001	BRA-BRGWA-2S
634447002	BRA-BRGWA-5S
1205499075	Method Blank (MB)
1205499076	Laboratory Control Sample (LCS)
1205499077	634352015(NonSDG) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 21
Analytical Batch: 2482658

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
634447003	BRA-BRGWA-5I
634447004	BRA-BRGWA-6S
634447005	BRA-BRGWA-2I
1205499079	Method Blank (MB)
1205499080	Laboratory Control Sample (LCS)
1205499081	634205010(NonSDG) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **Sulfide, Total**
Analytical Method: SM 4500-S (2-) D
Analytical Procedure: GL-GC-E-052 REV# 13
Analytical Batch: 2481696

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
634447001	BRA-BRGWA-2S
634447002	BRA-BRGWA-5S
634447003	BRA-BRGWA-5I
634447004	BRA-BRGWA-6S
634447005	BRA-BRGWA-2I
1205497559	Method Blank (MB)
1205497560	Laboratory Control Sample (LCS)
1205497561	634441001(BRA-BRGWC-33S) Post Spike (PS)
1205497562	634441001(BRA-BRGWC-33S) Post Spike Duplicate (PSD)
1205497563	634447001(BRA-BRGWA-2S) Post Spike (PS)
1205497564	634447001(BRA-BRGWA-2S) Post Spike Duplicate (PSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **Alkalinity**
Analytical Method: SM 2320B
Analytical Procedure: GL-GC-E-033 REV# 15
Analytical Batch: 2484392

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
634447001	BRA-BRGWA-2S
634447002	BRA-BRGWA-5S
634447003	BRA-BRGWA-5I
634447004	BRA-BRGWA-6S
634447005	BRA-BRGWA-2I
1205502339	Laboratory Control Sample (LCS)
1205502340	634448001(BRA-PZ-79) Sample Duplicate (DUP)
1205502341	634448001(BRA-PZ-79) Matrix Spike (MS)
1205502342	634643001(BRA-PZ-79) Sample Duplicate (DUP)
1205502343	634643001(BRA-PZ-79) Matrix Spike (MS)
1205502344	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this

report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

634447 634450

Page: _____ of _____
Project # _____
GEL Quote #: _____
COC Number [1]: _____
PO Number: _____

GEL Laboratories LLC
gel.com | Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power | Phone # 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - Upgradient | Fax #
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: J. Brigel ACC | Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (Hours)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: (1) Radioactive (If yes, please supply isotopic info.)	(2) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS, NO3 EPA 300, SM 2540C	Total, Ca-6, & Isotopic Ash SM 22509	Metals * EPA 6020, 6010, 7470	Radium 226 & 228 SW-846 9315, 9320	Sulfide SM 4500	<-- Preservative Type (6)
BRA- BRGWA-2S	08/22/23	1006	G	N	WG			8	✓	✓	✓	✓	✓	
BRA- BRGWA-5S	08/22/23	1005	G	N	WG			8	✓	✓	✓	✓	✓	
BRA- BRGWA-5I	08/22/23	1010	G	N	WG			8	✓	✓	✓	✓	✓	
BRA- BRGWA-6S	08/22/23	1015	G	N	WG			8	✓	✓	✓	✓	✓	
BRA- BRGWA-2I	08/22/23	1012	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-														
BRA-														
BRA-														
BRA-														
BRA-														

Comments
Note: extra sample is required for sample specific QC
Task_Code: BRA-CCR-ASSMT-202352

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	8/23/23	0732		8/23/23	832
2	8/23/23	1:00		8/23/23	1300
3			3		

TAT Requested: Normal: X Rush: _____ Specify: _____ (Subject to Surcharge)
Fax Results: [ ] Yes [x] No
Select Deliverable: [ ] C of A [ ] QC Summary [ ] level I [x] Level 2 [ ] Level 3 [ ] Level 4
Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg
For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No Cooler Temp: ____ °C
> For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)
Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.

4.) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).

6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic | Hg= Mercury
Ba = Barium | Se= Selenium
Cd = Cadmium | Ag= Silver
Cr = Chromium | MR= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

~~634444~~ 634643
634448 634447
634443 634450
634441 634444
~~634446~~

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GEL

SDG/AR/COC/Work Order:

Received By: MVH

Date Received: 08-23-2023

Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other

Courier and Tracking Number: Cooler 2-3°C Cooler 4-1°C Cooler 6-1°C Cooler 1-2°C Cooler 3-1°C Cooler 5-2°C

Suspected Hazard Information	Yes	No	
			*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A) Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, is the Radioactive Shipment Survey Complete? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM/mR/Hr Classified per: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)*	✓			Preservation Method: Wet Ice Ice Packs Dry Ice None Other: *all temperatures are recorded in Celsius TEMP:___
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR2-21 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?			✓	Sample ID's and containers affected: BRA-D2-GW, BRA-BRGWA-5I, BRA-BRGWA-23S, Preservation added: Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___ (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___ (If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

BRA-D2-BS, BRA-BRGWA-2S, BRA-BRGWA-6S, BRA-BRGWC-32S, BRA-BRGWA-21, BRA-BRGWC-37S, BRA-BRGWC-34S, BRA-BRGWC-30I Sulfide samples didn't hold proper preservation.

PM (or PMA) review: Initials AT Date 8/25/23 Page 1 of 1

GL-CHL-SR-001 Rev 7

Amanda Turner

From: Abraham, Joju <JABRAHAM@SOUTHERNCO.COM>
Sent: Friday, August 25, 2023 8:52 AM
To: Amanda Turner; Jurinko, Kristen Nichole; Smilley, Michael Jay; Gangi, Noelia S.; Midkiff, Laura B.
Cc: Team Trent
Subject: RE: Samples did not hold preservation (634441, 634443, 634444, 634446, 634447, 634450)

[EXTERNAL EMAIL] DO NOT CLICK links or attachments unless you recognize the sender and know the content is safe.

Re-preserve and analyze for sulfide in all samples.

JA

From: Amanda Turner <Amanda.Turner@gel.com>
Sent: Friday, August 25, 2023 8:29 AM
To: Abraham, Joju <JABRAHAM@SOUTHERNCO.COM>; Jurinko, Kristen Nichole <KNJURINK@SOUTHERNCO.COM>; Smilley, Michael Jay <MJSMILLE@SOUTHERNCO.COM>; Gangi, Noelia S. <NSMUSKUS@SOUTHERNCO.COM>; Midkiff, Laura B. <lbmidkif@southernco.com>
Cc: Team Trent <Team.Trent@gel.com>
Subject: Samples did not hold preservation (634441, 634443, 634444, 634446, 634447, 634450)

Good morning,

I wanted to notify you of the following preservation issues. These samples did not hold proper sulfide preservation. Please advise.

"BRA-GWC-34S" "BRA-BRGWC-37S" "BRA-PZ-13S" on work orders 634441 and 634443
“BRA-BRGWC-32S” “BRA-BRGWC-30I” "BRA-PZ-61I" "BRA-BRGWA-23S" on work orders 634444 and 634446
"BRA-BRGWA-2S" "BRA-BRGWA-6S" "BRA-BRGWA-2I" "BRA-BRAW-5I" on work orders 634447 and 634450

See attachments for reference.

Thank you!
Amanda

Amanda Turner
Project Manager Assistant
GEL Laboratories LLC EST. 1981
2040 Savage Road, Charleston, SC 29407
Office Main: 843.556.8171 | Fax: 843.766.1178
E-Mail: amanda.turner@gel.com | Website: www.gel.com [gel.com]
Analytical Testing
[gellaboratories.com] [linkedin.com]

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List of current GEL Certifications as of 06 September 2023

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122023-4
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2022-160
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-22-20
Utah NELAP	SC000122022-37
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

September 26, 2023

Joju Abraham
Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308

Re: Branch CCR Groundwater Compliance APBCD-R
Work Orders: 634781,634446 and 634652

Dear Joju Abraham:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on August 23, 2023, August 24, 2023 and August 25, 2023. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Recieved
634446002	BRA-BRGWA-23S	Ground Water	22/08/23 12:40	23/08/23 13:00
634446003	BRA-BRGWC-30I	Ground Water	22/08/23 15:22	23/08/23 13:00
634446004	BRA-BRGWC-32S	Ground Water	22/08/23 14:20	23/08/23 13:00
634446005	BRA-PZ-61I	Ground Water	22/08/23 16:15	23/08/23 13:00
634446006	BRA-APBCD-FB-01	Water	22/08/23 14:00	23/08/23 13:00
634652001	BRA-PZ-51I	Ground Water	23/08/23 15:00	24/08/23 12:43
634652002	BRA-PZ-58I	Ground Water	23/08/23 15:10	24/08/23 12:43
634652003	BRA-PZ-60I	Ground Water	23/08/23 13:25	24/08/23 12:43
634652004	BRA-PZ-63I	Ground Water	23/08/23 16:30	24/08/23 12:43
634652005	BRA-PZ-64I	Ground Water	23/08/23 10:55	24/08/23 12:43
634652006	BRA-PZ-68D	Ground Water	23/08/23 16:08	24/08/23 12:43
634652007	BRA-APBCD-FB-02	Ground Water	23/08/23 14:50	24/08/23 12:43
634652008	BRA-APBCD-FD-01	Ground Water	23/08/23 12:00	24/08/23 12:43
634652009	BRA-APBCD-FD-02	Ground Water	23/08/23 12:00	24/08/23 12:43
634652010	BRA-BRGWC-50	Ground Water	23/08/23 11:00	24/08/23 12:43
634652011	BRA-APBCD-EB-04	Ground Water	23/08/23 11:35	24/08/23 12:43

634652012	BRA-PZ-44	Ground Water	23/08/23 16:40	24/08/23 12:43
634652013	BRA-PZ-50D	Ground Water	23/08/23 12:30	24/08/23 12:43
634781001	BRA-APBCD-FD-03	Ground Water	24/08/23 12:00	25/08/23 08:57
634781002	BRA-APBCD-EB-05	Ground Water	24/08/23 09:55	25/08/23 08:57
634781003	BRA-BRGWC-27I	Ground Water	24/08/23 12:25	25/08/23 08:57
634781004	BRA-BRGWC-45	Ground Water	24/08/23 12:06	25/08/23 08:57
634781005	BRA-PZ-75I	Ground Water	24/08/23 10:51	25/08/23 08:57
634781006	BRA-PZ-74I	Ground Water	24/08/23 14:15	25/08/23 08:57
634781007	BRA-BRGWC-29I	Ground Water	24/08/23 15:20	25/08/23 08:57
634781008	BRA-PZ-51D	Ground Water	24/08/23 11:00	25/08/23 08:57
634781009	BRA-APBCD-FB-03	Ground Water	24/08/23 12:55	25/08/23 08:57
634781010	BRA-APBCD-EB-06	Ground Water	24/08/23 14:00	25/08/23 08:57
634781011	BRA-BRGWC-52I	Ground Water	24/08/23 13:05	25/08/23 08:57
634781012	BRA-BRGWC-47	Ground Water	24/08/23 14:45	25/08/23 08:57
634781013	BRA-BRGWC-25I	Ground Water	24/08/23 16:47	25/08/23 08:57

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Prep Methods and Prep Dates

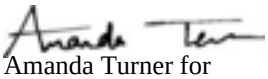
Not Applicable

Analysis Methods and Analysis Dates

Method	Run Date ID
Calculation	22-SEP-2023
Calculation	26-SEP-2023
EPA 903.1 Modified	20-SEP-2023
EPA 903.1 Modified	21-SEP-2023
EPA 903.1 Modified	26-SEP-2023
EPA 904.0/SW846 9320 Modified	05-SEP-2023
EPA 904.0/SW846 9320 Modified	19-SEP-2023
EPA 904.0/SW846 9320 Modified	22-SEP-2023

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4504.

Sincerely,



Amanda Turner for
Erin Trent
Project Manager

Purchase Order: GPC82177-0006
Enclosures

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 634652 GEL Work Order: 634652

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

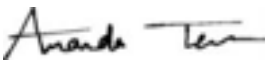
** Analyte is a surrogate compound

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Erin Trent.

Reviewed by 

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 634781 GEL Work Order: 634781

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

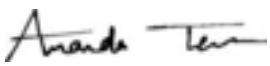
** Analyte is a surrogate compound

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Erin Trent.

Reviewed by 

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 634446 GEL Work Order: 634446

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

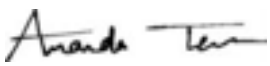
** Analyte is a surrogate compound

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Erin Trent.

Reviewed by 

Radiochemistry
Technical Case Narrative
Georgia Power Company
SDG #: 634652

Product: **Radium-226+Radium-228 Calculation**
Analytical Method: Calculation
Analytical Procedure: GL-RAD-D-003 REV# 45
Analytical Batch: 2483038

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
634652001	BRA-PZ-51I
634652002	BRA-PZ-58I
634652003	BRA-PZ-60I
634652004	BRA-PZ-63I
634652005	BRA-PZ-64I
634652006	BRA-PZ-68D
634652007	BRA-APBCD-FB-02
634652008	BRA-APBCD-FD-01
634652009	BRA-APBCD-FD-02
634652010	BRA-BRGWC-50
634652011	BRA-APBCD-EB-04
634652012	BRA-PZ-44
634652013	BRA-PZ-50D

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **GFPC Ra228, Liquid**
Analytical Method: EPA 904.0/SW846 9320 Modified
Analytical Procedure: GL-RAD-A-063 REV# 5
Analytical Batch: 2483035

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
634652001	BRA-PZ-51I
634652002	BRA-PZ-58I
634652003	BRA-PZ-60I
634652004	BRA-PZ-63I
634652005	BRA-PZ-64I
634652006	BRA-PZ-68D

634652007	BRA-APBCD-FB-02
634652008	BRA-APBCD-FD-01
634652009	BRA-APBCD-FD-02
634652010	BRA-BRGWC-50
634652011	BRA-APBCD-EB-04
634652012	BRA-PZ-44
634652013	BRA-PZ-50D
1205499785	Method Blank (MB)
1205499786	634652001(BRA-PZ-51I) Sample Duplicate (DUP)
1205499787	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **Lucas Cell, Ra226, Liquid**
Analytical Method: EPA 903.1 Modified
Analytical Procedure: GL-RAD-A-008 REV# 15
Analytical Batch: 2483037

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
634652001	BRA-PZ-51I
634652002	BRA-PZ-58I
634652003	BRA-PZ-60I
634652004	BRA-PZ-63I
634652005	BRA-PZ-64I
634652006	BRA-PZ-68D
634652007	BRA-APBCD-FB-02
634652008	BRA-APBCD-FD-01
634652009	BRA-APBCD-FD-02
634652010	BRA-BRGWC-50
634652011	BRA-APBCD-EB-04
634652012	BRA-PZ-44
634652013	BRA-PZ-50D
1205499794	Method Blank (MB)
1205499795	634652001(BRA-PZ-51I) Sample Duplicate (DUP)
1205499796	634652001(BRA-PZ-51I) Matrix Spike (MS)
1205499797	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments
The matrix spike, 1205499796 (BRA-PZ-51IMS), aliquot was reduced to conserve sample volume.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Radiochemistry
Technical Case Narrative
Georgia Power Company
SDG #: 634781

Product: **Radium-226+Radium-228 Calculation**
Analytical Method: Calculation
Analytical Procedure: GL-RAD-D-003 REV# 45
Analytical Batch: 2484347

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
634781001	BRA-APBCD-FD-03
634781002	BRA-APBCD-EB-05
634781003	BRA-BRGWC-27I
634781004	BRA-BRGWC-45
634781005	BRA-PZ-75I
634781006	BRA-PZ-74I
634781007	BRA-BRGWC-29I
634781008	BRA-PZ-51D
634781009	BRA-APBCD-FB-03
634781010	BRA-APBCD-EB-06
634781011	BRA-BRGWC-52I
634781012	BRA-BRGWC-47
634781013	BRA-BRGWC-25I

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **GFPC Ra228, Liquid**
Analytical Method: EPA 904.0/SW846 9320 Modified
Analytical Procedure: GL-RAD-A-063 REV# 5
Analytical Batch: 2483519

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
634781001	BRA-APBCD-FD-03
634781002	BRA-APBCD-EB-05
634781003	BRA-BRGWC-27I
634781004	BRA-BRGWC-45
634781005	BRA-PZ-75I
634781006	BRA-PZ-74I

634781007	BRA-BRGWC-29I
634781008	BRA-PZ-51D
634781009	BRA-APBCD-FB-03
634781010	BRA-APBCD-EB-06
634781011	BRA-BRGWC-52I
634781012	BRA-BRGWC-47
634781013	BRA-BRGWC-25I
1205500580	Method Blank (MB)
1205500581	634781003(BRA-BRGWC-27I) Sample Duplicate (DUP)
1205500582	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Method Blank Criteria
The blank result (See Below) is greater than the MDC but less than the required detection limit.

Sample	Analyte	Value
1205500580 (MB)	Radium-228	Result: 1.94 pCi/L > MDA: 1.46 pCi/L <= RDL: 3.00 pCi/L

Product: **Lucas Cell, Ra226, Liquid**
Analytical Method: EPA 903.1 Modified
Analytical Procedure: GL-RAD-A-008 REV# 15
Analytical Batch: 2483512

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
634781001	BRA-APBCD-FD-03
634781002	BRA-APBCD-EB-05
634781003	BRA-BRGWC-27I
634781004	BRA-BRGWC-45
634781005	BRA-PZ-75I
634781006	BRA-PZ-74I
634781007	BRA-BRGWC-29I
634781008	BRA-PZ-51D
634781009	BRA-APBCD-FB-03
634781010	BRA-APBCD-EB-06
634781011	BRA-BRGWC-52I
634781012	BRA-BRGWC-47
634781013	BRA-BRGWC-25I
1205500561	Method Blank (MB)

1205500562	634781003(BRA-BRGWC-27I) Sample Duplicate (DUP)
1205500563	634781003(BRA-BRGWC-27I) Matrix Spike (MS)
1205500564	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments
The matrix spike, 1205500563 (BRA-BRGWC-27IMS), aliquot was reduced to conserve sample volume.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Radiochemistry
Technical Case Narrative
Georgia Power Company
SDG #: 634446

Product: **Radium-226+Radium-228 Calculation**
Analytical Method: Calculation
Analytical Procedure: GL-RAD-D-003 REV# 45
Analytical Batch: 2488604

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
634446002	BRA-BRGWA-23S
634446003	BRA-BRGWC-30I
634446004	BRA-BRGWC-32S
634446005	BRA-PZ-61I
634446006	BRA-APBCD-FB-01

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **GFPC Ra228, Liquid**
Analytical Method: EPA 904.0/SW846 9320 Modified
Analytical Procedure: GL-RAD-A-063 REV# 5
Analytical Batch: 2494433

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
634446002	BRA-BRGWA-23S
634446003	BRA-BRGWC-30I
634446004	BRA-BRGWC-32S
634446005	BRA-PZ-61I
634446006	BRA-APBCD-FB-01
1205520855	Method Blank (MB)
1205520856	634443001(BRA-BRGWC-33S) Sample Duplicate (DUP)
1205520857	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where

applicable, with the following exceptions.

Quality Control (QC) Information

Method Blank Criteria
The blank result (See Below) is greater than the MDC but less than the required detection limit.

Sample	Analyte	Value
1205520855 (MB)	Radium-228	Result: 1.38 pCi/L > MDA: 1.13 pCi/L <= RDL: 3.00 pCi/L

Technical Information

Sample Re-prep/Re-analysis
Samples were reprepped due to high relative percent difference/relative error ratio. The re-analysis is being reported.

Product: **Lucas Cell, Ra226, Liquid**
Analytical Method: EPA 903.1 Modified
Analytical Procedure: GL-RAD-A-008 REV# 15
Analytical Batch: 2482017

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
634446002	BRA-BRGWA-23S
634446003	BRA-BRGWC-30I
634446004	BRA-BRGWC-32S
634446005	BRA-PZ-61I
634446006	BRA-APBCD-FB-01
1205498037	Method Blank (MB)
1205498038	634443001(BRA-BRGWC-33S) Sample Duplicate (DUP)
1205498039	634443001(BRA-BRGWC-33S) Matrix Spike (MS)
1205498040	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments
The matrix spike, 1205498039 (BRA-BRGWC-33SMS), aliquot was reduced to conserve sample volume.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

634652
634650

Page: _____ of _____
Project # _____
GEL Quote # _____
COC Number (1): _____
PO Number _____

GEL Laboratories LLC
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power | Phone # 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - BCD | Fax #
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: J. Burkhalter ACC | Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (T) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS, NO3 EPA 300, SM 2540C	Trace Cr6 & Bromide SM 3500	NI	NI								← Preservative Type (6)
											Metals* EPA 6020, 6010, 7470	Radium 226 & 228 SW-846 9315, 9320	Sulfide SM 4500							
BRA-PZ-51I	08/23/23	1500	G	N	WG			8	✓	✓	✓	✓	✓							
BRA-PZ-58I	08/23/23	1510	G	N	WG			8	✓	✓	✓	✓	✓							
BRA-PZ-54I	08/23/23	1140	G	N	WG			1					✓							
BRA-PZ-60I	08/23/23	1325	G	N	WG			8	✓	✓	✓	✓	✓							
BRA-PZ-63I	08/23/23	1630	G	N	WG			8	✓	✓	✓	✓	✓							
BRA-PZ-64I	08/23/23	1055	G	N	WG			8	✓	✓	✓	✓	✓							
BRA-PZ-68D	08/23/23	1608	G	N	WG			8	✓	✓	✓	✓	✓							
BRA-APBCD-FB-02	08/23/23	1450	G	N	WQ			8	✓	✓	✓	✓	✓							
BRA-APBCD-FD-01	08/23/23	—	G	N	WG			8	✓	✓	✓	✓	✓							
BRA-APBCD-FD-02	08/23/23	—	G	N	WG			8	✓	✓	✓	✓	✓							

Comments
Note: extra sample is required for sample specific QC
Task_Code: BRA-CCR-ASSMT-202352

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1		8/24/23	0741			
2		8/24/23	1249		8/24/23	1249
3						

TAT Requested: Normal: x Rush: ____ Specify: _____ (Subject to Surcharge)

Fax Results: [ ] Yes [x] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] Level 1 [x] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg

For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No Cooler Temp: ____ °C

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR).*

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other

1.) Chain of Custody Number = Client Determined

2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.

4.) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1)

6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic, Ba = Barium, Cd = Cadmium, Cr = Chromium, Pb = Lead, Hg = Mercury, Se = Selenium, Ag = Silver, MR = Misc. RCRA metals

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW = Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT = Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e., Origin of sample(s), type of site collected from, solid matrices, etc.)

Page: _____ of _____
Project # _____
GEL Quote #: _____
COC Number [1]: _____
PO Number: _____

GEL Laboratories LLC

gel.com | Chemistry / Radiochemistry / Radioisotopes / Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power | Phone # 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - BCD | Fax #
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: D. Brown ACC | Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: (1) Radioactive (If yes, please supply isotopic info.)	(2) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS, SO32 EPA 300, SM 2340C	Total, Carb, & Bicarb Alk SM 2320B	NI Metals * EPA 6020, 6010, 7470	NI Radium 226 & 228 SW-846 9315, 9320	Sulfide SM 4500	← Preservative Type (6)	Comments
BRA-BRGWC-50	08/23/23	1100	G	N	WG			8	✓	✓	✓	✓	✓		Note: extra sample is required for sample specific QC **Task_Code: BRA-CCR-ASSMT-2023S2**
BRA-APBCD-EB-04	08/23/23	1135	G	N	WQ			8	✓	✓	✓	✓	✓		
BRA-PZ-44	08/23/23	1640	G	N	WG			8	✓	✓	✓	✓	✓		
BRA-PZ-50D	08/23/23	1230	G	N	WG			8	✓	✓	✓	✓	✓		
BRA-															
BRA-															
BRA-															
BRA-															
BRA-															
BRA-															

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1		8/24/23	0841		8/24/23	841
2		8/24/23	1249		8/24/23	1243
3						

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR).*

TAT Requested: Normal: x Rush: ____ Specify: _____ (Subject to Surcharge)

Fax Results: [ ] Yes [x] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [x] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg

For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No Cooler Temp: ____ °C

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.

4.) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).

6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic; Hg= Mercury
Ba = Barium; Se= Selenium
Cd = Cadmium; Ag= Silver
Cr = Chromium; MR= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

634448 634643
634652 634650
634649
634648 634615

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	SDG/AR/COC/Work Order:
Received By: EG	Date Received: 8.24.23
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other Cooler 1 - 3° Cooler 3 - 3° Cooler 2 - 3° Cooler 4 - 2° Cooler 5 3°

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A) Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM / mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	If O or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other

Sample Receipt Criteria		Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)*	✓			Preservation Method: Wet Ice Ice Packs Dry Ice None Other: *all temperatures are recorded in Celsius TBMP: See coolers above & below for temps
4	Daily checks performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR8-22 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?			✓	Sample ID's and Containers Affected: If Preservation added, Lot#: See continuation form
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for soil/s? Yes___ No___ NA___ (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___ (If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

Cooler 6-1
Cooler 7-2
Cooler 8-4
Cooler 9-1

PM (or PMA) review: Initials AT Date 8/28/23 Page 1 of 2

GL-CHL-SR-001 Rev 7

GEL | Laboratories LLC **SAMPLE RECEIPT & REVIEW CONTINUATION FORM**

Client: GPCC Received By: EG Date Received: 8/24/23 SDG/AR/COC/Work Order: _____

14. BRA-P2-511
BRA-P2-591
BRA-BRGWC-353
BRA-BRGWC-365
BRA-APE-FB-05
BRA-P2-601
BRA-P2-581
BRA-P2-631
BRA-BRGWC-385
BRA-P2-641
BRA-P2-68D
BRA-APBUD-FD-02
BRA-P2-50D
BRA-BRGWC-50
BRA-APE-FD-05
L> containers for sodium hydroxide/zinc acetate did not hold preservation. Were preserved & placed in 24 hr hold preservation

PM (or PMA) review: Initials AT Date 8/28/23 Page 2 of 2

634768 634781

Page: 1 of 2
Project #:
GEL Quote #:
COC Number (1):
PO Number:

GEL Laboratories LLC
gel.com | Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics
Chain of Custody and Analytical Request

GEL Work Order Number: GEL Project Manager: Erin Trent

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power | Phone # 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - BCD | Fax #
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: ACC | Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested (3) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (Hours)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (C) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS, NO3 EPA 300, SM 2540C	Total, Ca+Mg, & Hard. Alk SM 2340B	NI Metals* EPA 6020, 6010, 7470	NI Radium 226 & 228 SW-846 9315, 9320	Sulfide SM 4500	← Preservative Type (6)	Comments
BRA-APBCD-FD-03	08/24/23		G	N	WG			8	✓	✓	✓	✓	✓		Note: extra sample is required for sample specific QC
BRA-APBCD-EB-05	08/24/23	0955	G	N	WQ			8	✓	✓	✓	✓	✓		Task_Code: BRA-CCR-ASSMT-2023S2
BRA-BRGWC-27I	08/24/23	1225	G	N	WG			8	✓	✓	✓	✓	✓		
BRA-BRGWC-45	08/24/23	1206	G	N	WG			8	✓	✓	✓	✓	✓		
BRA-PZ-75I	08/24/23	1051	G	N	WG			8	✓	✓	✓	✓	✓		
BRA-PZ-74I	08/24/23	1415	G	N	WG			8	✓	✓	✓	✓	✓		
BRA-BRGWC-29I	08/24/23	1520	G	N	WG			8	✓	✓	✓	✓	✓		
BRA-PZ-51D	08/24/23	1100	G	N	WG			8	✓	✓	✓	✓	✓		
BRA-APBCD-FD-03	08/24/23	1255	G	N	WQ			8	✓	✓	✓	✓	✓		
BRA-APBCD-EB-06	08/24/23	1400	G	N	WQ			8	✓	✓	✓	✓	✓		

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1		08/24/23	1730		08/24/23	1730
2		8/25/23	0857		8/24/23	0857
3						

→ *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

TAT Requested: Normal: X Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [x] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] Level 1 [x] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg

For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No *Cooler Temp:* ____ °C

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other

Cooler 1 - 4°
Cooler 2- 4°
Cooler 3- 1°
Cooler 4- 1°
Cooler 5- 2°

1.) Chain of Custody Number = Client Determined

2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.

4.) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SD=Sediment, SL=Sludge, WQ=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. *8260B = 3, 6010B/7470A = 1*).

6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic Hg = Mercury
Ba = Barium Se = Selenium
Cd = Cadmium Ag = Silver
Cr = Chromium MR = Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW = Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT = Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e. Origin of sample(s), type of site collected from, odd matrices, etc.)

Page: 2 of 2
Project #:
GEL Quote #:
COC Number (1):
PO Number:

GEL Laboratories LLC

gel.com | Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: GEL Project Manager: Erin Trent

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power | Phone # 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - BCD | Fax #
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: ACC | Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (*) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS, NO3 EPA 300, SM 2540C	Total Carb. & Bicarb Alk SM 2320B	NI Metals * EPA 6020, 6010, 7470	NI Radium 226 & 228 SW-846 9315, 9320	Sulfide SM 4500	<-- Preservative Type (6)
BRA- BRGWC-52I	08/24/23	1305	G	N	WG			8	✓	✓	✓	✓	✓	
BRA- BRGWC-47	08/24/23	1445	G	N	WG			8	✓	✓	✓	✓	✓	
BRA- BRGWC-25I	08/24/23	1647	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-														
BRA-														
BRA-														
BRA-														
BRA-														
BRA-														
BRA-														

Comments
Note: extra sample is required for sample specific QC
Task_Code: BRA-CCR-ASSMT-2023S2

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	8/24/23	1730	1	8/24/23	1730
2	8/25/23	0857	2	8/25/23	0857
3			3		

TAT Requested: Normal: x Rush: Specify: (Subject to Surcharge)
Fax Results: [ ] Yes [x] No
Select Deliverable: [ ] C of A [ ] QC Summary [ ] Level 1 [x] Level 2 [ ] Level 3 [ ] Level 4
Additional Remarks: *Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg
For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No Cooler Temp: °C
Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other

> For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)

Cooler 1-4
cooler 2-4
cooler 3-1
cooler 4-1
cooler 5-3

1.) Chain of Custody Number = Client Determined

2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.

4.) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).

6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

7a.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic Hg = Mercury
Ba = Barium Se = Selenium
Cd = Cadmium Ag = Silver
Cr = Chromium MR = Misc. RCRA metals
Pb = Lead

Characteristic Hazards
IL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW = Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT = Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

ET

634784 634789 634768 634781

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	SDG/AR/COC/Work Order:
Received By: EG	Date Received: 8/25/23 0857
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other cooler 1 - 4° cooler 3 - 1° cooler 5 - 3° cooler 2 - 4° cooler 4 - 1°

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A) Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 0 CPM / mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below: PCBs Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 - ≤ 6 deg. C)*	✓			Preservation Method: Wet Ice Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: See above
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?			✓	Sample ID's and Containers Affected: If Preservation added, Lot#: See below
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___ (If yes, refer to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___ (If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?			✓	ID's and containers affected: COC says BRA-P2-74I bottles say BRA-P2-74
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

containers BRA-P2-75I, BRA-BRGWC-27I, BRA-P2-53D & BRA-BRGWC-29I preserved with NaOH/Zinc Acetate did not hold preservation

PM (or PMA) review: Initials AT Date 8/26/23 Page 1 of 1

GL-CHL-SR-001 Rev 7

634444 634446

Page: ____ of ____
Project # ____
GEL Quote #: ____
COC Number [1]: ____
PO Number: ____

GEL Laboratories LLC
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: GEL Project Manager: Erin Trent

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power | Phone # 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - BCD | Fax #
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: J. Brooks ACC | Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested [5]: (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply activity info.)	Should this sample be considered: (*) Known or possible Hazards	Total # of containers	Cl, F, SO4, TDS, 9056 EPA 300, SM 2540C	Total Carb. & Bicarb Alk. SM 2320B	NI Metals * EPA 6020, 6010, 7470	NI Radium 226 & 228 EPA 9315, 9320	Sulfide SM 4500	<-- Preservative Type (6)
BRA-PZ-57I	08/21/23	1755	G	N	WG			1					✓	
BRA-PZ-65I	08/21/23	1745	G	N	WG			1					✓	
BRA-BRGWA-23S	08/22/23	1240	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-BRGWC-30I	08/22/23	1522	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-BRGWC-52S	08/22/23	1420	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-PZ-61I	08/22/23	1615	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-APBCD-FB-01	08/22/23	1400	G	N	WQ			8	✓	✓	✓	✓	✓	
BRA-														
BRA-														
BRA-														

Comments
Note: extra sample is required for sample specific QC
Task_Code: BRA-CCR-ASSMT-2023S2

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1		8/24/23	0852		8/24/23	8:35
2		8/23/23	100		8/24/23	1300
3						

TAT Requested: Normal: X Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [X] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [X] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg

For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No Cooler Temp: ____ °C

> For sample shipping and delivery details, see Sample Receipt & Review form (SRR).

Sample Collection Time Zone: [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1) Chain of Custody Number = Client Determined

2) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

3) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered

4) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix

5) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1)

6) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

7) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic Hg= Mercury
Ba = Barium Se= Selenium
Cd = Cadmium Ag= Silver
Cr = Chromium MR= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s): ____

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description: ____

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

~~634447~~ 634643
634448 634447
634443 634450
634441 634444
634446

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: CCP

SDG/AR/COC/Work Order:

Received By: MVH

Date Received: 08-25-2023

Carrier and Tracking Number

Circle Applicable: FedEx Express FedEx Ground UPS Field Service Courier Other

Cooler 2-3°C Cooler 4-1°C Cooler 6-1°C
Cooler 1-2°C Cooler 3-1°C Cooler 5-2°C

Suspected Hazard Information	Yes	No	If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A) Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC Radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM/mR/Hr *Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?		✓	COC Hazardous or Hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below. PCBs Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤6 deg. C)*	✓			Preservation Method: Wet Ice Ice Packs Dry Ice None Other: *all temperatures are recorded in Celsius TEMP:___
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR2-21 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?				Sample ID's and Containers Affected: BRA-D2-G11, BRA-BRGWA-51, BRA-BRGWA-23S, If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___ (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___ (If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):
BRA-D2-13S, BRA-BRGWA-2S, BRA-BRGWA-6S, BRA-BRGWC-32S, BRA-BRGWA-21, BRA-BRGWC-37S, BRA-BRGWC-34S, BRA-BRGWC-30I Sulfide Samples didnt hold proper preservation.

PM (or PMA) review: Initials AT Date 8/25/23 Page 1 of 1

GL-CHL-SR-001 Rev 7

Amanda Turner

From: Amanda Turner
Sent: Tuesday, August 29, 2023 10:04 AM
To: JABRAHAM@SOUTHERNCO.COM; KNJURINK@SOUTHERNCO.COM; MJSMILLE@SOUTHERNCO.COM; NSMUSKUS@SOUTHERNCO.COM; lbmidkif@southernco.com
Cc: Team Trent
Subject: Preservation issues (634652, 634650, 634648, 634615)
Attachments: 634648 634615.pdf; 634652 634650.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

Good morning!

I wanted to notify you of the following preservation issues. The samples containers for sodium hydroxide/zinc acetate listed below did not hold preservation. The samples were preserved upon receipt and placed on a 24-hour preservation hold.

"BRA-PZ-51I" "BRA-PZ-60I" "BRA-PZ-58I" "BRA-PZ-63I" "BRA-PZ-64I" "BRA-PZ-68D" "BRA-APBCD-FD-02" "BRA-PZ-50D" "BRA-BRGWC-50" for work orders 634652 and 634650

"BRA-PZ-59I" for work order 634650

"BRA-BRGWC-35S" "BRA-BRGWC-36S" BRA-APE-FB-08" "BRA-BRGWC-38S" "BRA-APE-FD-05" for work orders 634648 and 634615

See attachments for reference.

Thank you!
Amanda

Amanda Turner
Project Manager Assistant
GEL Laboratories LLC EST. 1981
2040 Savage Road, Charleston, SC 29407
Office Main: 843.556.8171 | Fax: 843.766.1178
E-Mail: amanda.turner@gel.com | Website: www.gel.com
Analytical Testing

Amanda Turner

From: Abraham, Joju <JABRAHAM@SOUTHERNCO.COM>
Sent: Friday, August 25, 2023 8:52 AM
To: Amanda Turner; Jurinko, Kristen Nichole; Smilley, Michael Jay; Gangi, Noelia S.; Midkiff, Laura B.
Cc: Team Trent
Subject: RE: Samples did not hold preservation (634441, 634443, 634444, 634446, 634447, 634450)

[EXTERNAL EMAIL] DO NOT CLICK links or attachments unless you recognize the sender and know the content is safe.

Re-preserve and analyze for sulfide in all samples.

JA

From: Amanda Turner <Amanda.Turner@gel.com>
Sent: Friday, August 25, 2023 8:29 AM
To: Abraham, Joju <JABRAHAM@SOUTHERNCO.COM>; Jurinko, Kristen Nichole <KNJURINK@SOUTHERNCO.COM>; Smilley, Michael Jay <MJSMILLE@SOUTHERNCO.COM>; Gangi, Noelia S. <NSMUSKUS@SOUTHERNCO.COM>; Midkiff, Laura B. <lbmidkif@southernco.com>
Cc: Team Trent <Team.Trent@gel.com>
Subject: Samples did not hold preservation (634441, 634443, 634444, 634446, 634447, 634450)

Good morning,

I wanted to notify you of the following preservation issues. These samples did not hold proper sulfide preservation. Please advise.

"BRA-GWC-34S" "BRA-BRGWC-37S" "BRA-PZ-13S" on work orders 634441 and 634443
“BRA-BRGWC-32S” “BRA-BRGWC-30I” "BRA-PZ-61I" "BRA-BRGWA-23S" on work orders 634444 and 634446
"BRA-BRGWA-2S" "BRA-BRGWA-6S" "BRA-BRGWA-2I" "BRA-BRAW-5I" on work orders 634447 and 634450

See attachments for reference.

Thank you!
Amanda

Amanda Turner
Project Manager Assistant
GEL Laboratories LLC EST. 1981
2040 Savage Road, Charleston, SC 29407
Office Main: 843.556.8171 | Fax: 843.766.1178
E-Mail: amanda.turner@gel.com | Website: www.gel.com [gel.com]
Analytical Testing
[gellaboratories.com] [linkedin.com]

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List of current GEL Certifications as of 26 September 2023

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122023-4
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2022-160
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-23-21
Utah NELAP	SC000122022-37
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-BRGWA-23S
Sample ID: 634446002
Matrix: WG
Collect Date: 22-AUG-23
Receive Date: 23-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.10	+/-1.08	1.79	+/-1.12	3.00	pCi/L			JE1	09/22/23	0822	2494433	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.16	+/-1.15	1.79	+/-1.21		pCi/L			NXL1	09/22/23	1016	2488604	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		1.06	+/-0.386	0.385	+/-0.455	1.00	pCi/L			LXP1	09/20/23	0820	2482017	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2494433	84.9	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
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Atlanta, Georgia 30308 Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-BRGWC-30I
Sample ID: 634446003
Matrix: WG
Collect Date: 22-AUG-23
Receive Date: 23-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.97	+/-1.28	2.00	+/-1.38	3.00	pCi/L			JE1	09/22/23	0822	2494433	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.71	+/-1.32	2.00	+/-1.42		pCi/L			NXL1	09/22/23	1016	2488604	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.736	+/-0.333	0.380	+/-0.351	1.00	pCi/L			LXP1	09/20/23	0820	2482017	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2494433	83.1	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Atlanta, Georgia 30308 Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-BRGWC-32S
Sample ID: 634446004
Matrix: WG
Collect Date: 22-AUG-23
Receive Date: 23-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.60	+/-1.14	1.80	+/-1.21	3.00	pCi/L			JE1	09/22/23	0822	2494433	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.33	+/-1.19	1.80	+/-1.26		pCi/L			NXL1	09/22/23	1016	2488604	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.729	+/-0.346	0.390	+/-0.363	1.00	pCi/L			LXP1	09/20/23	0852	2482017	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2494433	87.5	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Atlanta, Georgia 30308 Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-PZ-61I
Sample ID: 634446005
Matrix: WG
Collect Date: 22-AUG-23
Receive Date: 23-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.515	+/-0.660	1.12	+/-0.672	3.00	pCi/L			JE1	09/22/23	0847	2494433	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	0.868	+/-0.703	1.12	+/-0.718		pCi/L			NXL1	09/22/23	1016	2488604	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.353	+/-0.244	0.325	+/-0.250	1.00	pCi/L			LXP1	09/20/23	0852	2482017	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2494433	85.9	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Atlanta, Georgia 30308 Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-APBCD-FB-01
Sample ID: 634446006
Matrix: WQ
Collect Date: 22-AUG-23
Receive Date: 23-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.142	+/-0.978	1.81	+/-0.979	3.00	pCi/L			JE1	09/22/23	0847	2494433	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	0.595	+/-1.01	1.81	+/-1.01		pCi/L			NXL1	09/22/23	1016	2488604	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.454	+/-0.236	0.217	+/-0.248	1.00	pCi/L			LXP1	09/20/23	0852	2482017	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2494433	81.8	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Atlanta, Georgia 30308 Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-PZ-51I
Sample ID: 634652001
Matrix: WG
Collect Date: 23-AUG-23
Receive Date: 24-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		4.20	+/-1.36	1.62	+/-1.73	3.00	pCi/L			JE1	09/19/23	0925	2483035	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		5.22	+/-1.45	1.62	+/-1.81		pCi/L			LXB3	09/22/23	1000	2483038	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		1.02	+/-0.480	0.512	+/-0.520	1.00	pCi/L			LXP1	09/21/23	0938	2483037	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2483035	82.6	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Atlanta, Georgia 30308 Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-PZ-58I
Sample ID: 634652002
Matrix: WG
Collect Date: 23-AUG-23
Receive Date: 24-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		1.77	+/-0.844	1.08	+/-0.956	3.00	pCi/L			JE1	09/19/23	0925	2483035	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		3.71	+/-1.11	1.08	+/-1.27		pCi/L			LXB3	09/22/23	1000	2483038	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		1.95	+/-0.714	0.786	+/-0.834	1.00	pCi/L			LXP1	09/21/23	0938	2483037	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2483035	81.1	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Atlanta, Georgia 30308 Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-PZ-60I
Sample ID: 634652003
Matrix: WG
Collect Date: 23-AUG-23
Receive Date: 24-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		2.65	+/-1.24	1.75	+/-1.41	3.00	pCi/L			JE1	09/19/23	0925	2483035	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		4.48	+/-1.38	1.75	+/-1.58		pCi/L			LXB3	09/22/23	1000	2483038	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		1.83	+/-0.611	0.548	+/-0.717	1.00	pCi/L			LXP1	09/21/23	0938	2483037	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2483035	76.2	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Atlanta, Georgia 30308 Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-PZ-63I
Sample ID: 634652004
Matrix: WG
Collect Date: 23-AUG-23
Receive Date: 24-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.44	+/-1.16	1.85	+/-1.21	3.00	pCi/L			JE1	09/19/23	0925	2483035	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.31	+/-1.25	1.85	+/-1.32		pCi/L			LXB3	09/22/23	1000	2483038	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.873	+/-0.483	0.568	+/-0.510	1.00	pCi/L			LXP1	09/21/23	0938	2483037	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2483035	75.8	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Atlanta, Georgia 30308 Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-PZ-64I
Sample ID: 634652005
Matrix: WG
Collect Date: 23-AUG-23
Receive Date: 24-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.700	+/-1.10	1.90	+/-1.11	3.00	pCi/L			JE1	09/19/23	0925	2483035	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	0.877	+/-1.13	1.90	+/-1.15		pCi/L			LXB3	09/22/23	1000	2483038	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.177	+/-0.275	0.491	+/-0.278	1.00	pCi/L			LXP1	09/21/23	0938	2483037	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2483035	77.5	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Atlanta, Georgia 30308 Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-PZ-68D
Sample ID: 634652006
Matrix: WG
Collect Date: 23-AUG-23
Receive Date: 24-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.837	+/-0.870	1.44	+/-0.896	3.00	pCi/L			JE1	09/19/23	0925	2483035	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		1.62	+/-0.966	1.44	+/-1.00		pCi/L			LXB3	09/22/23	1000	2483038	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.786	+/-0.419	0.483	+/-0.447	1.00	pCi/L			LXP1	09/21/23	0938	2483037	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2483035	88.1	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Atlanta, Georgia 30308 Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-APBCD-FB-02
Sample ID: 634652007
Matrix: WQ
Collect Date: 23-AUG-23
Receive Date: 24-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.431	+/-0.731	1.30	+/-0.739	3.00	pCi/L			JE1	09/19/23	0925	2483035	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	0.720	+/-0.801	1.30	+/-0.811		pCi/L			LXB3	09/22/23	1000	2483038	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.289	+/-0.327	0.532	+/-0.332	1.00	pCi/L			LXP1	09/21/23	0938	2483037	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2483035	71.8	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Atlanta, Georgia 30308 Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-APBCD-FD-01
Sample ID: 634652008
Matrix: WG
Collect Date: 23-AUG-23
Receive Date: 24-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.29	+/-1.46	2.46	+/-1.50	3.00	pCi/L			JE1	09/19/23	0926	2483035	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	2.39	+/-1.54	2.46	+/-1.59		pCi/L			LXB3	09/22/23	1000	2483038	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		1.09	+/-0.466	0.364	+/-0.509	1.00	pCi/L			LXP1	09/21/23	0938	2483037	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2483035	72.4	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Certificate of Analysis

Company : Georgia Power Company, Southern
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Atlanta, Georgia 30308 Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-APBCD-FD-02
Sample ID: 634652009
Matrix: WG
Collect Date: 23-AUG-23
Receive Date: 24-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.491	+/-1.14	2.01	+/-1.15	3.00	pCi/L			JE1	09/19/23	0926	2483035	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	1.14	+/-1.22	2.01	+/-1.23		pCi/L			LXB3	09/22/23	1000	2483038	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.652	+/-0.429	0.555	+/-0.441	1.00	pCi/L			LXP1	09/21/23	1010	2483037	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2483035	84.7	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Atlanta, Georgia 30308 Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-BRGWC-50
Sample ID: 634652010
Matrix: WG
Collect Date: 23-AUG-23
Receive Date: 24-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.285	+/-0.641	1.16	+/-0.645	3.00	pCi/L			JE1	09/19/23	0926	2483035	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		1.55	+/-0.807	1.16	+/-0.861		pCi/L			LXB3	09/22/23	1000	2483038	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		1.26	+/-0.491	0.418	+/-0.571	1.00	pCi/L			LXP1	09/21/23	1010	2483037	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2483035	83.9	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Atlanta, Georgia 30308 Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-APBCD-EB-04
Sample ID: 634652011
Matrix: WQ
Collect Date: 23-AUG-23
Receive Date: 24-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.408	+/-0.833	1.49	+/-0.840	3.00	pCi/L			JE1	09/19/23	0926	2483035	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	1.22	+/-0.914	1.49	+/-0.938		pCi/L			LXB3	09/22/23	1000	2483038	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.816	+/-0.375	0.312	+/-0.418	1.00	pCi/L			LXP1	09/21/23	1010	2483037	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2483035	73.1	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Atlanta, Georgia 30308 Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-PZ-44
Sample ID: 634652012
Matrix: WG
Collect Date: 23-AUG-23
Receive Date: 24-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	-0.148	+/-0.949	1.84	+/-0.949	3.00	pCi/L			JE1	09/19/23	0926	2483035	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	0.477	+/-1.04	1.84	+/-1.05		pCi/L			LXB3	09/22/23	1000	2483038	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.477	+/-0.429	0.653	+/-0.438	1.00	pCi/L			LXP1	09/21/23	1010	2483037	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2483035	70.5	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Atlanta, Georgia 30308 Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-PZ-50D
Sample ID: 634652013
Matrix: WG
Collect Date: 23-AUG-23
Receive Date: 24-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.18	+/-0.822	1.26	+/-0.875	3.00	pCi/L			JE1	09/19/23	0926	2483035	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.12	+/-0.914	1.26	+/-0.972		pCi/L			LXB3	09/22/23	1000	2483038	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.941	+/-0.401	0.313	+/-0.424	1.00	pCi/L			LXP1	09/21/23	1010	2483037	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2483035	87	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Atlanta, Georgia 30308 Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-APBCD-FD-03
Sample ID: 634781001
Matrix: WG
Collect Date: 24-AUG-23
Receive Date: 25-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		4.38	+/-1.44	1.72	+/-1.82	3.00	pCi/L			JE1	09/19/23	1051	2483519	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		4.92	+/-1.51	1.72	+/-1.88		pCi/L		1	LXB3	09/26/23	1107	2484347	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.542	+/-0.475	0.677	+/-0.482	1.00	pCi/L			LXP1	09/26/23	0811	2483512	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2483519	79	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Atlanta, Georgia 30308 Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-APBCD-EB-05 Project: GPCC00101
Sample ID: 634781002 Client ID: GPCC001
Matrix: WQ
Collect Date: 24-AUG-23
Receive Date: 25-AUG-23
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.593	+/-0.685	1.15	+/-0.702	3.00	pCi/L			JE1	09/19/23	1051	2483519	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	0.659	+/-0.732	1.15	+/-0.748		pCi/L		1	LXB3	09/26/23	1107	2484347	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.0660	+/-0.259	0.574	+/-0.259	1.00	pCi/L			LXP1	09/26/23	0811	2483512	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2483519	77.7	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Atlanta, Georgia 30308 Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-BRGWC-27I
Sample ID: 634781003
Matrix: WG
Collect Date: 24-AUG-23
Receive Date: 25-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.10	+/-1.05	1.72	+/-1.09	3.00	pCi/L			JE1	09/19/23	1051	2483519	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.23	+/-1.17	1.72	+/-1.22		pCi/L		1	LXB3	09/26/23	1107	2484347	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		1.13	+/-0.529	0.419	+/-0.558	1.00	pCi/L			LXP1	09/26/23	0811	2483512	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2483519	80.1	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Atlanta, Georgia 30308 Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-BRGWC-45
Sample ID: 634781004
Matrix: WG
Collect Date: 24-AUG-23
Receive Date: 25-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	-0.541	+/-0.892	1.81	+/-0.893	3.00	pCi/L			JE1	09/19/23	1051	2483519	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	0.607	+/-1.00	1.81	+/-1.01		pCi/L		1	LXB3	09/26/23	1107	2484347	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.607	+/-0.459	0.567	+/-0.471	1.00	pCi/L			LXP1	09/26/23	0811	2483512	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2483519	82.8	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Atlanta, Georgia 30308 Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-PZ-75I
Sample ID: 634781005
Matrix: WG
Collect Date: 24-AUG-23
Receive Date: 25-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		1.91	+/-1.02	1.48	+/-1.13	3.00	pCi/L			JE1	09/19/23	1051	2483519	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		3.11	+/-1.15	1.48	+/-1.27		pCi/L		1	LXB3	09/26/23	1107	2484347	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		1.20	+/-0.533	0.403	+/-0.589	1.00	pCi/L			LXP1	09/26/23	0811	2483512	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2483519	85.8	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Atlanta, Georgia 30308 Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-PZ-74I
Sample ID: 634781006
Matrix: WG
Collect Date: 24-AUG-23
Receive Date: 25-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.191	+/-0.607	1.14	+/-0.609	3.00	pCi/L			JE1	09/19/23	1051	2483519	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	0.811	+/-0.747	1.14	+/-0.760		pCi/L		1	LXB3	09/26/23	1107	2484347	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.620	+/-0.435	0.563	+/-0.454	1.00	pCi/L			LXP1	09/26/23	0811	2483512	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2483519	84	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Atlanta, Georgia 30308 Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-BRGWC-29I
Sample ID: 634781007
Matrix: WG
Collect Date: 24-AUG-23
Receive Date: 25-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.89	+/-1.37	2.18	+/-1.45	3.00	pCi/L			JE1	09/19/23	1052	2483519	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		3.02	+/-1.48	2.18	+/-1.58		pCi/L		1	LXB3	09/26/23	1107	2484347	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		1.12	+/-0.579	0.574	+/-0.624	1.00	pCi/L			LXP1	09/26/23	0811	2483512	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2483519	82.8	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-PZ-51D
Sample ID: 634781008
Matrix: WG
Collect Date: 24-AUG-23
Receive Date: 25-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.411	+/-0.709	1.25	+/-0.716	3.00	pCi/L			JE1	09/19/23	1052	2483519	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		1.27	+/-0.851	1.25	+/-0.867		pCi/L		1	LXB3	09/26/23	1107	2484347	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.860	+/-0.471	0.373	+/-0.489	1.00	pCi/L			LXP1	09/26/23	0811	2483512	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2483519	84.5	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-APBCD-FB-03
Sample ID: 634781009
Matrix: WQ
Collect Date: 24-AUG-23
Receive Date: 25-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		1.61	+/-0.878	1.21	+/-0.968	3.00	pCi/L			JE1	09/19/23	1052	2483519	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		1.93	+/-0.934	1.21	+/-1.02		pCi/L		1	LXB3	09/26/23	1107	2484347	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.321	+/-0.321	0.451	+/-0.330	1.00	pCi/L			LXP1	09/26/23	0846	2483512	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2483519	79.4	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
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Atlanta, Georgia 30308 Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-APBCD-EB-06
Sample ID: 634781010
Matrix: WQ
Collect Date: 24-AUG-23
Receive Date: 25-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.285	+/-0.704	1.30	+/-0.708	3.00	pCi/L			JE1	09/19/23	1052	2483519	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	0.924	+/-0.853	1.30	+/-0.861		pCi/L		1	LXB3	09/26/23	1107	2484347	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.639	+/-0.482	0.617	+/-0.491	1.00	pCi/L			LXP1	09/26/23	0846	2483512	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2483519	79.3	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-BRGWC-52I
Sample ID: 634781011
Matrix: WG
Collect Date: 24-AUG-23
Receive Date: 25-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		4.85	+/-1.31	1.43	+/-1.80	3.00	pCi/L			JE1	09/19/23	1052	2483519	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		6.36	+/-1.46	1.43	+/-1.95		pCi/L		1	LXB3	09/26/23	1107	2484347	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		1.50	+/-0.652	0.531	+/-0.743	1.00	pCi/L			LXP1	09/26/23	0846	2483512	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2483519	84	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-BRGWC-47
Sample ID: 634781012
Matrix: WG
Collect Date: 24-AUG-23
Receive Date: 25-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.56	+/-1.10	1.71	+/-1.17	3.00	pCi/L			JE1	09/19/23	1053	2483519	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.39	+/-1.20	1.71	+/-1.27		pCi/L		1	LXB3	09/26/23	1107	2484347	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.834	+/-0.497	0.424	+/-0.514	1.00	pCi/L			LXP1	09/26/23	0846	2483512	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2483519	79.3	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-BRGWC-25I
Sample ID: 634781013
Matrix: WG
Collect Date: 24-AUG-23
Receive Date: 25-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.634	+/-0.916	1.58	+/-0.930	3.00	pCi/L			JE1	09/19/23	1052	2483519	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	1.21	+/-0.991	1.58	+/-1.01		pCi/L		1	LXB3	09/26/23	1107	2484347	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.574	+/-0.379	0.354	+/-0.399	1.00	pCi/L			LXP1	09/26/23	0846	2483512	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2483519	82.7	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

QC Summary

Client : **Georgia Power Company, Southern Company**
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia

Contact: **Joju Abraham**

Workorder: **634446**

Report Date: September 26, 2023

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gas Flow										
Batch 2494433										
QC1205520856 634443001 DUP										
Radium-228	U	0.119	U	1.16	pCi/L	0		N/A	JE1	09/22/2308:46
	Uncert:	+/-0.702		+/-0.838						
	TPU:	+/-0.702		+/-0.891						
QC1205520857 LCS										
Radium-228	75.6			76.2	pCi/L		101	(75%-125%)	JE1	09/22/2308:46
	Uncert:			+/-4.33						
	TPU:			+/-19.9						
QC1205520855 MB										
Radium-228				1.38	pCi/L				JE1	09/22/2308:46
	Uncert:			+/-0.802						
	TPU:			+/-0.875						
Rad Ra-226										
Batch 2482017										
QC1205498038 634443001 DUP										
Radium-226	U	0.401	U	0.170	pCi/L	0		N/A	LXP1	09/20/2309:26
	Uncert:	+/-0.326		+/-0.249						
	TPU:	+/-0.337		+/-0.251						
QC1205498040 LCS										
Radium-226	26.9			33.3	pCi/L		124	(75%-125%)	LXP1	09/20/2309:26
	Uncert:			+/-2.02						
	TPU:			+/-5.55						
QC1205498037 MB										
Radium-226			U	0.142	pCi/L				LXP1	09/20/2309:26
	Uncert:			+/-0.184						
	TPU:			+/-0.188						
QC1205498039 634443001 MS										
Radium-226	137 U	0.401		103	pCi/L		75.1	(75%-125%)	LXP1	09/20/2309:26
	Uncert:	+/-0.326		+/-7.23						
	TPU:	+/-0.337		+/-17.8						

Notes:

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

The Qualifiers in this report are defined as follows:

U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported

QC Summary

Workorder: **634446**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time

UI	Gamma Spectroscopy--Uncertain identification
BD	Results are either below the MDC or tracer recovery is low
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
M	M if above MDC and less than LLD
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
FA	Failed analysis.
UJ	Gamma Spectroscopy--Uncertain identification
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
K	Analyte present. Reported value may be biased high. Actual value is expected to be lower.
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.
L	Analyte present. Reported value may be biased low. Actual value is expected to be higher.
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
**	Analyte is a Tracer compound
M	REMP Result > MDC/CL and < RDL
J	See case narrative for an explanation

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
** Indicates analyte is a surrogate/tracer compound.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptence criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

QC Summary

Client : **Georgia Power Company, Southern Company**
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia

Contact: **Joju Abraham**

Workorder: **634781**

Report Date: September 26, 2023

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gas Flow										
Batch 2483519										
QC1205500581 634781003 DUP										
Radium-228	U	1.10	U	0.506	pCi/L	0		N/A	JE1	09/19/2310:51
	Uncert:	+/-1.05		+/-1.18						
	TPU:	+/-1.09		+/-1.18						
QC1205500582 LCS										
Radium-228	77.5			72.3	pCi/L		93.3	(75%-125%)	JE1	09/19/2310:51
	Uncert:			+/-4.27						
	TPU:			+/-18.9						
QC1205500580 MB										
Radium-228				1.94	pCi/L				JE1	09/19/2310:51
	Uncert:			+/-1.03						
	TPU:			+/-1.15						
Rad Ra-226										
Batch 2483512										
QC1205500562 634781003 DUP										
Radium-226		1.13		1.23	pCi/L	8.5		(0% - 100%)	LXP1	09/26/2309:21
	Uncert:	+/-0.529		+/-0.578						
	TPU:	+/-0.558		+/-0.626						
QC1205500564 LCS										
Radium-226	26.9			25.2	pCi/L		93.6	(75%-125%)	LXP1	09/26/2309:21
	Uncert:			+/-2.49						
	TPU:			+/-4.93						
QC1205500561 MB										
Radium-226			U	0.162	pCi/L				LXP1	09/26/2308:46
	Uncert:			+/-0.229						
	TPU:			+/-0.231						
QC1205500563 634781003 MS										
Radium-226	125	1.13		110	pCi/L		87	(75%-125%)	LXP1	09/26/2309:21
	Uncert:	+/-0.529		+/-11.2						
	TPU:	+/-0.558		+/-25.2						

Notes:

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

The Qualifiers in this report are defined as follows:

U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported

QC Summary

Workorder: **634781**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time

UI	Gamma Spectroscopy--Uncertain identification
BD	Results are either below the MDC or tracer recovery is low
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
M	M if above MDC and less than LLD
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
FA	Failed analysis.
UJ	Gamma Spectroscopy--Uncertain identification
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
K	Analyte present. Reported value may be biased high. Actual value is expected to be lower.
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.
L	Analyte present. Reported value may be biased low. Actual value is expected to be higher.
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
**	Analyte is a Tracer compound
M	REMP Result > MDC/CL and < RDL
J	See case narrative for an explanation

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
** Indicates analyte is a surrogate/tracer compound.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptence criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

QC Summary

Client : **Georgia Power Company, Southern Company**
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia

Contact: **Joju Abraham**

Workorder: **634652**

Report Date: September 26, 2023

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gas Flow										
Batch 2483035										
QC1205499786 634652001 DUP										
Radium-228		4.20		1.85	pCi/L	77.8		(0% - 100%)	JE1	09/19/2309:26
	Uncert:	+/-1.36		+/-0.855						
	TPU:	+/-1.73		+/-0.975						
QC1205499787 LCS										
Radium-228	77.6			66.2	pCi/L		85.4	(75%-125%)	JE1	09/19/2309:26
	Uncert:			+/-4.00						
	TPU:			+/-17.3						
QC1205499785 MB										
Radium-228			U	0.216	pCi/L				JE1	09/19/2309:26
	Uncert:			+/-0.891						
	TPU:			+/-0.893						
Rad Ra-226										
Batch 2483037										
QC1205499795 634652001 DUP										
Radium-226		1.02		1.69	pCi/L	49.7		(0% - 100%)	LXP1	09/21/2310:10
	Uncert:	+/-0.480		+/-0.621						
	TPU:	+/-0.520		+/-0.674						
QC1205499797 LCS										
Radium-226	27.1			28.6	pCi/L		105	(75%-125%)	LXP1	09/21/2310:42
	Uncert:			+/-2.15						
	TPU:			+/-5.29						
QC1205499794 MB										
Radium-226			U	0.0898	pCi/L				LXP1	09/21/2310:10
	Uncert:			+/-0.278						
	TPU:			+/-0.279						
QC1205499796 634652001 MS										
Radium-226	130	1.02		139	pCi/L		106	(75%-125%)	LXP1	09/21/2310:10
	Uncert:	+/-0.480		+/-11.3						
	TPU:	+/-0.520		+/-34.8						

Notes:

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

The Qualifiers in this report are defined as follows:

U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported

QC Summary

Workorder: **634652**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time

UI	Gamma Spectroscopy--Uncertain identification
BD	Results are either below the MDC or tracer recovery is low
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
M	M if above MDC and less than LLD
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
FA	Failed analysis.
UJ	Gamma Spectroscopy--Uncertain identification
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
K	Analyte present. Reported value may be biased high. Actual value is expected to be lower.
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.
L	Analyte present. Reported value may be biased low. Actual value is expected to be higher.
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
**	Analyte is a Tracer compound
M	REMP Result > MDC/CL and < RDL
J	See case narrative for an explanation

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
** Indicates analyte is a surrogate/tracer compound.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptence criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

September 06, 2023

Kelley Sharpe
ARCADIS - Atlanta
2839 Paces Ferry Rd
STE 900
Atlanta, GA 30339

RE: Project: Plant Branch-CCR Ash Pond-Revised Report
Pace Project No.: 92684547

Dear Kelley Sharpe:

Enclosed are the analytical results for sample(s) received by the laboratory on August 24, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Asheville
- Pace Analytical Services - Peachtree Corners, GA

Rev. 1 - This replaces the September 5, 2023 final report. This report was revised to update the incorrect sample ID's for 92684547-007 thru -017. No other changes were made to this report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Maiya Parks

Maiya Parks
maiya.parks@pacelabs.com
(770)734-4200
Project Manager

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Jordan Gamble, ARCADIS - Atlanta
Ben Hodges, Georgia Power-CCR
Warren Johnson, ARCADIS - Atlanta
Laura Midkiff, Georgia Power
Noelia Muskus Ruiz, Georgia Power
Tina Sullivan, ERM

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CERTIFICATIONS

Project: Plant Branch-CCR Ash Pond-Revised Report
Pace Project No.: 92684547

Pace Analytical Services Asheville
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners
110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
North Carolina Certification #: 381
South Carolina Certification #: 98011001
Virginia Certification #: 460204

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SAMPLE SUMMARY

Project: Plant Branch-CCR Ash Pond-Revised Report
Pace Project No.: 92684547

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92684547001	**BRA-LR-1(surface)**	Water	08/23/23 11:00	08/24/23 14:44
92684547002	**BRA-LR-1(mid)**	Water	08/23/23 11:03	08/24/23 14:44
92684547003	**BRA-LR-1(bottom)**	Water	08/23/23 11:06	08/24/23 14:44
92684547004	**BRA-LS+3A(surface)**	Water	08/23/23 10:54	08/24/23 14:44
92684547005	**BRA-LS+3(surface)**	Water	08/23/23 10:48	08/24/23 14:44
92684547006	**BRA-LS+3(mid)**	Water	08/23/23 10:52	08/24/23 14:44
92684547007	**BRA-LR+8A(surface)**	Water	08/23/23 11:36	08/24/23 14:44
92684547008	**BRA-LR+9A(surface)**	Water	08/23/23 11:40	08/24/23 14:44
92684547009	**BRA-LR+8(surface)**	Water	08/23/23 10:35	08/24/23 14:44
92684547010	**BRA-LR+8(mid)**	Water	08/23/23 10:38	08/24/23 14:44
92684547011	**BRA-LR+8(bottom)**	Water	08/23/23 10:41	08/24/23 14:44
92684547012	**BRA-LR+9(surface)**	Water	08/23/23 10:29	08/24/23 14:44
92684547013	**BRA-LR+9(mid)**	Water	08/23/23 10:32	08/24/23 14:44
92684547014	**BRA-LR+9(bottom)**	Water	08/23/23 10:35	08/24/23 14:44
92684547015	**BRA-LR+10(surface)**	Water	08/23/23 10:11	08/24/23 14:44
92684547016	**BRA-LR+10(mid)**	Water	08/23/23 10:14	08/24/23 14:44
92684547017	**BRA-LR+10(bottom)**	Water	08/23/23 10:19	08/24/23 14:44

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SAMPLE ANALYTE COUNT

Project: Plant Branch-CCR Ash Pond-Revised Report
Pace Project No.: 92684547

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92684547001	**BRA-LR-1(surface)**	EPA 6010D	MS	5	PASI-GA
		EPA 6020B	CW1	2	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B-2011	YEG	2	PASI-A
		EPA 9056A	CDC	3	PASI-A
92684547002	**BRA-LR-1(mid)**	EPA 6010D	MS	5	PASI-GA
		EPA 6020B	CW1	2	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B-2011	YEG	2	PASI-A
		EPA 9056A	CDC	3	PASI-A
92684547003	**BRA-LR-1(bottom)**	EPA 6010D	MS	5	PASI-GA
		EPA 6020B	CW1	2	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B-2011	YEG	2	PASI-A
		EPA 9056A	CDC	3	PASI-A
92684547004	**BRA-LS+3A(surface)**	EPA 6010D	MS	5	PASI-GA
		EPA 6020B	CW1	1	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B-2011	YEG	2	PASI-A
		EPA 9056A	CDC	3	PASI-A
92684547005	**BRA-LS+3(surface)**	EPA 6010D	MS	5	PASI-GA
		EPA 6020B	CW1	1	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B-2011	YEG	2	PASI-A
		EPA 9056A	CDC	3	PASI-A
92684547006	**BRA-LS+3(mid)**	EPA 6010D	MS	5	PASI-GA
		EPA 6020B	CW1	1	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B-2011	YEG	2	PASI-A
		EPA 9056A	CDC	3	PASI-A
92684547007	**BRA-LR+8A(surface)**	EPA 6010D	MS	5	PASI-GA
		EPA 6020B	CW1	1	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B-2011	YEG	2	PASI-A
		EPA 9056A	CDC	3	PASI-A
92684547008	**BRA-LR+9A(surface)**	EPA 6010D	MS	5	PASI-GA
		EPA 6020B	CW1	1	PASI-GA

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SAMPLE ANALYTE COUNT

Project: Plant Branch-CCR Ash Pond-Revised Report
Pace Project No.: 92684547

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B-2011	YEG	2	PASI-A
		EPA 9056A	CDC	3	PASI-A
92684547009	**BRA-LR+8(surface)**	EPA 6010D	MS	5	PASI-GA
		EPA 6020B	CW1	1	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B-2011	YEG	2	PASI-A
		EPA 9056A	CDC	3	PASI-A
92684547010	**BRA-LR+8(mid)**	EPA 6010D	MS	5	PASI-GA
		EPA 6020B	CW1	1	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B-2011	YEG	2	PASI-A
		EPA 9056A	CDC	3	PASI-A
92684547011	**BRA-LR+8(bottom)**	EPA 6010D	MS	5	PASI-GA
		EPA 6020B	CW1	1	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B-2011	YEG	2	PASI-A
		EPA 9056A	CDC	3	PASI-A
92684547012	**BRA-LR+9(surface)**	EPA 6010D	MS	5	PASI-GA
		EPA 6020B	CW1	1	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B-2011	YEG	2	PASI-A
		EPA 9056A	CDC	3	PASI-A
92684547013	**BRA-LR+9(mid)**	EPA 6010D	MS	5	PASI-GA
		EPA 6020B	CW1	1	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B-2011	YEG	2	PASI-A
		EPA 9056A	CDC	3	PASI-A
92684547014	**BRA-LR+9(bottom)**	EPA 6010D	MS	5	PASI-GA
		EPA 6020B	CW1	1	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B-2011	YEG	2	PASI-A
		EPA 9056A	CDC	3	PASI-A
92684547015	**BRA-LR+10(surface)**	EPA 6010D	MS	5	PASI-GA
		EPA 6020B	CW1	2	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B-2011	YEG	2	PASI-A

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SAMPLE ANALYTE COUNT

Project: Plant Branch-CCR Ash Pond-Revised Report
Pace Project No.: 92684547

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 9056A	CDC	3	PASI-A
92684547016	**BRA-LR+10(mid)**	EPA 6010D	MS	5	PASI-GA
		EPA 6020B	CW1	2	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B-2011	YEG	2	PASI-A
		EPA 9056A	CDC	3	PASI-A
92684547017	**BRA-LR+10(bottom)**	EPA 6010D	MS	5	PASI-GA
		EPA 6020B	CW1	2	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B-2011	YEG	2	PASI-A
		EPA 9056A	CDC	3	PASI-A

PASI-A = Pace Analytical Services - Asheville
PASI-GA = Pace Analytical Services - Peachtree Corners, GA

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ANALYTICAL RESULTS

Project: Plant Branch-CCR Ash Pond-Revised Report
Pace Project No.: 92684547

Sample: BRA-LR-1(surface) **Lab ID: 92684547001** Collected: 08/23/23 11:00 Received: 08/24/23 14:44 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Boron	ND	mg/L	0.040	1	08/29/23 14:47	08/30/23 01:57	7440-42-8	
Potassium	**2.5**	mg/L	0.50	1	08/29/23 14:47	08/30/23 01:57	7440-09-7	
Sodium	**5.3**	mg/L	1.0	1	08/29/23 14:47	08/30/23 01:57	7440-23-5	
Calcium	**5.9**	mg/L	1.0	1	08/29/23 14:47	08/30/23 01:57	7440-70-2	
Magnesium	**3.0**	mg/L	0.050	1	08/29/23 14:47	08/30/23 01:57	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Cobalt	ND	mg/L	0.0050	1	08/28/23 13:48	08/31/23 18:14	7440-48-4	
Selenium	ND	mg/L	0.0050	1	08/28/23 13:48	08/31/23 18:14	7782-49-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA							
Total Dissolved Solids	**65.0**	mg/L	25.0	1		08/28/23 18:44		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville							
Alkalinity,Bicarbonate (CaCO3)	**34.4**	mg/L	5.0	1		08/25/23 13:04		
Alkalinity, Total as CaCO3	**34.4**	mg/L	5.0	1		08/25/23 13:04		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville							
Chloride	**3.6**	mg/L	1.0	1		08/25/23 13:47	16887-00-6	
Fluoride	ND	mg/L	0.10	1		08/25/23 13:47	16984-48-8	
Sulfate	**2.2**	mg/L	1.0	1		08/25/23 13:47	14808-79-8	

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(770)734-4200

ANALYTICAL RESULTS

Project: Plant Branch-CCR Ash Pond-Revised Report
Pace Project No.: 92684547

Sample: BRA-LR-1(mid) **Lab ID: 92684547002** Collected: 08/23/23 11:03 Received: 08/24/23 14:44 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Boron	ND	mg/L	0.040	1	08/29/23 14:47	08/30/23 02:02	7440-42-8	
Potassium	**2.6**	mg/L	0.50	1	08/29/23 14:47	08/30/23 02:02	7440-09-7	
Sodium	**5.3**	mg/L	1.0	1	08/29/23 14:47	08/30/23 02:02	7440-23-5	
Calcium	**5.9**	mg/L	1.0	1	08/29/23 14:47	08/30/23 02:02	7440-70-2	
Magnesium	**3.0**	mg/L	0.050	1	08/29/23 14:47	08/30/23 02:02	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Cobalt	ND	mg/L	0.0050	1	08/28/23 13:48	08/31/23 18:20	7440-48-4	
Selenium	ND	mg/L	0.0050	1	08/28/23 13:48	08/31/23 18:20	7782-49-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA							
Total Dissolved Solids	**53.0**	mg/L	25.0	1		08/28/23 18:44		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville							
Alkalinity,Bicarbonate (CaCO3)	**33.9**	mg/L	5.0	1		08/25/23 13:22		
Alkalinity, Total as CaCO3	**33.9**	mg/L	5.0	1		08/25/23 13:22		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville							
Chloride	**3.6**	mg/L	1.0	1		08/25/23 21:52	16887-00-6	
Fluoride	ND	mg/L	0.10	1		08/25/23 21:52	16984-48-8	
Sulfate	**1.7**	mg/L	1.0	1		08/25/23 21:52	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Branch-CCR Ash Pond-Revised Report
Pace Project No.: 92684547

Sample: BRA-LR-1(bottom) **Lab ID: 92684547003** Collected: 08/23/23 11:06 Received: 08/24/23 14:44 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Boron	ND	mg/L	0.040	1	08/29/23 14:47	08/30/23 02:07	7440-42-8	
Potassium	**2.6**	mg/L	0.50	1	08/29/23 14:47	08/30/23 02:07	7440-09-7	
Sodium	**5.3**	mg/L	1.0	1	08/29/23 14:47	08/30/23 02:07	7440-23-5	M1
Calcium	**5.9**	mg/L	1.0	1	08/29/23 14:47	08/30/23 02:07	7440-70-2	
Magnesium	**3.0**	mg/L	0.050	1	08/29/23 14:47	08/30/23 02:07	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Cobalt	ND	mg/L	0.0050	1	08/28/23 13:48	08/31/23 18:26	7440-48-4	
Selenium	ND	mg/L	0.0050	1	08/28/23 13:48	08/31/23 18:26	7782-49-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA							
Total Dissolved Solids	**62.0**	mg/L	25.0	1		08/28/23 18:44		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville							
Alkalinity,Bicarbonate (CaCO3)	**33.8**	mg/L	5.0	1		08/25/23 13:29		
Alkalinity, Total as CaCO3	**33.8**	mg/L	5.0	1		08/25/23 13:29		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville							
Chloride	**3.9**	mg/L	1.0	1		08/25/23 22:07	16887-00-6	
Fluoride	ND	mg/L	0.10	1		08/25/23 22:07	16984-48-8	
Sulfate	**1.7**	mg/L	1.0	1		08/25/23 22:07	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Branch-CCR Ash Pond-Revised Report
Pace Project No.: 92684547

Sample: BRA-LS+3A(surface) **Lab ID: 92684547004** Collected: 08/23/23 10:54 Received: 08/24/23 14:44 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Boron	ND	mg/L	0.040	1	08/29/23 14:47	08/30/23 02:38	7440-42-8	
Potassium	**2.4**	mg/L	0.50	1	08/29/23 14:47	08/30/23 02:38	7440-09-7	
Sodium	**4.9**	mg/L	1.0	1	08/29/23 14:47	08/30/23 02:38	7440-23-5	
Calcium	**5.5**	mg/L	1.0	1	08/29/23 14:47	08/30/23 02:38	7440-70-2	
Magnesium	**2.8**	mg/L	0.050	1	08/29/23 14:47	08/30/23 02:38	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Selenium	ND	mg/L	0.0050	1	08/28/23 13:48	08/31/23 18:50	7782-49-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA							
Total Dissolved Solids	**53.0**	mg/L	25.0	1		08/28/23 18:45		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville							
Alkalinity,Bicarbonate (CaCO3)	**33.3**	mg/L	5.0	1		08/25/23 13:35		
Alkalinity, Total as CaCO3	**33.3**	mg/L	5.0	1		08/25/23 13:35		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville							
Chloride	**3.8**	mg/L	1.0	1		08/25/23 22:23	16887-00-6	
Fluoride	ND	mg/L	0.10	1		08/25/23 22:23	16984-48-8	
Sulfate	**2.3**	mg/L	1.0	1		08/25/23 22:23	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Branch-CCR Ash Pond-Revised Report
Pace Project No.: 92684547

Sample: BRA-LS+3(surface) **Lab ID: 92684547005** Collected: 08/23/23 10:48 Received: 08/24/23 14:44 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Boron	ND	mg/L	0.040	1	08/29/23 14:47	08/30/23 02:44	7440-42-8	
Potassium	**2.5**	mg/L	0.50	1	08/29/23 14:47	08/30/23 02:44	7440-09-7	
Sodium	**5.2**	mg/L	1.0	1	08/29/23 14:47	08/30/23 02:44	7440-23-5	
Calcium	**5.8**	mg/L	1.0	1	08/29/23 14:47	08/30/23 02:44	7440-70-2	
Magnesium	**3.0**	mg/L	0.050	1	08/29/23 14:47	08/30/23 02:44	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Selenium	ND	mg/L	0.0050	1	08/28/23 13:48	08/31/23 18:56	7782-49-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA							
Total Dissolved Solids	**46.0**	mg/L	25.0	1		08/28/23 18:45		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville							
Alkalinity,Bicarbonate (CaCO3)	**33.3**	mg/L	5.0	1		08/25/23 13:41		
Alkalinity, Total as CaCO3	**33.3**	mg/L	5.0	1		08/25/23 13:41		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville							
Chloride	**3.6**	mg/L	1.0	1		08/25/23 22:38	16887-00-6	
Fluoride	ND	mg/L	0.10	1		08/25/23 22:38	16984-48-8	
Sulfate	**2.2**	mg/L	1.0	1		08/25/23 22:38	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Branch-CCR Ash Pond-Revised Report
Pace Project No.: 92684547

Sample: BRA-LS+3(mid) **Lab ID: 92684547006** Collected: 08/23/23 10:52 Received: 08/24/23 14:44 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Boron	ND	mg/L	0.040	1	08/29/23 14:47	08/30/23 02:49	7440-42-8	
Potassium	**2.5**	mg/L	0.50	1	08/29/23 14:47	08/30/23 02:49	7440-09-7	
Sodium	**5.3**	mg/L	1.0	1	08/29/23 14:47	08/30/23 02:49	7440-23-5	
Calcium	**5.9**	mg/L	1.0	1	08/29/23 14:47	08/30/23 02:49	7440-70-2	
Magnesium	**3.0**	mg/L	0.050	1	08/29/23 14:47	08/30/23 02:49	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Selenium	ND	mg/L	0.0050	1	08/28/23 13:48	08/31/23 19:14	7782-49-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA							
Total Dissolved Solids	**57.0**	mg/L	25.0	1		08/28/23 18:45		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville							
Alkalinity,Bicarbonate (CaCO3)	**32.3**	mg/L	5.0	1		08/25/23 13:57		
Alkalinity, Total as CaCO3	**32.3**	mg/L	5.0	1		08/25/23 13:57		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville							
Chloride	**3.6**	mg/L	1.0	1		08/25/23 22:53	16887-00-6	
Fluoride	ND	mg/L	0.10	1		08/25/23 22:53	16984-48-8	
Sulfate	**2.2**	mg/L	1.0	1		08/25/23 22:53	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Branch-CCR Ash Pond-Revised Report
Pace Project No.: 92684547

Sample: BRA-LR+8A(surface) **Lab ID: 92684547007** Collected: 08/23/23 11:36 Received: 08/24/23 14:44 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Boron	ND	mg/L	0.040	1	08/29/23 14:47	08/30/23 02:54	7440-42-8	
Potassium	**2.4**	mg/L	0.50	1	08/29/23 14:47	08/30/23 02:54	7440-09-7	
Sodium	**4.9**	mg/L	1.0	1	08/29/23 14:47	08/30/23 02:54	7440-23-5	
Calcium	**5.4**	mg/L	1.0	1	08/29/23 14:47	08/30/23 02:54	7440-70-2	
Magnesium	**2.6**	mg/L	0.050	1	08/29/23 14:47	08/30/23 02:54	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Cobalt	ND	mg/L	0.0050	1	08/28/23 13:48	08/31/23 19:20	7440-48-4	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA							
Total Dissolved Solids	**53.0**	mg/L	25.0	1		08/28/23 18:45		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville							
Alkalinity,Bicarbonate (CaCO3)	**31.3**	mg/L	5.0	1		08/25/23 14:03		
Alkalinity, Total as CaCO3	**31.3**	mg/L	5.0	1		08/25/23 14:03		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville							
Chloride	**3.7**	mg/L	1.0	1		08/25/23 23:08	16887-00-6	
Fluoride	ND	mg/L	0.10	1		08/25/23 23:08	16984-48-8	
Sulfate	**2.2**	mg/L	1.0	1		08/25/23 23:08	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Branch-CCR Ash Pond-Revised Report
Pace Project No.: 92684547

Sample: BRA-LR+9A(surface) **Lab ID: 92684547008** Collected: 08/23/23 11:40 Received: 08/24/23 14:44 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Boron	ND	mg/L	0.040	1	08/29/23 14:47	08/30/23 02:59	7440-42-8	
Potassium	**2.4**	mg/L	0.50	1	08/29/23 14:47	08/30/23 02:59	7440-09-7	
Sodium	**4.8**	mg/L	1.0	1	08/29/23 14:47	08/30/23 02:59	7440-23-5	
Calcium	**5.4**	mg/L	1.0	1	08/29/23 14:47	08/30/23 02:59	7440-70-2	
Magnesium	**2.5**	mg/L	0.050	1	08/29/23 14:47	08/30/23 02:59	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Cobalt	ND	mg/L	0.0050	1	08/28/23 13:48	08/31/23 19:26	7440-48-4	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA							
Total Dissolved Solids	**40.0**	mg/L	25.0	1		08/28/23 18:45		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville							
Alkalinity,Bicarbonate (CaCO3)	**31.1**	mg/L	5.0	1		08/25/23 14:09		
Alkalinity, Total as CaCO3	**31.1**	mg/L	5.0	1		08/25/23 14:09		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville							
Chloride	**3.8**	mg/L	1.0	1		08/25/23 23:23	16887-00-6	
Fluoride	ND	mg/L	0.10	1		08/25/23 23:23	16984-48-8	M1
Sulfate	**2.3**	mg/L	1.0	1		08/25/23 23:23	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Branch-CCR Ash Pond-Revised Report
Pace Project No.: 92684547

Sample: BRA-LR+8(surface) **Lab ID: 92684547009** Collected: 08/23/23 10:35 Received: 08/24/23 14:44 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Boron	ND	mg/L	0.040	1	08/29/23 14:47	08/30/23 03:04	7440-42-8	
Potassium	**2.5**	mg/L	0.50	1	08/29/23 14:47	08/30/23 03:04	7440-09-7	
Sodium	**5.0**	mg/L	1.0	1	08/29/23 14:47	08/30/23 03:04	7440-23-5	
Calcium	**5.5**	mg/L	1.0	1	08/29/23 14:47	08/30/23 03:04	7440-70-2	
Magnesium	**2.7**	mg/L	0.050	1	08/29/23 14:47	08/30/23 03:04	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Cobalt	ND	mg/L	0.0050	1	08/28/23 13:48	08/31/23 19:31	7440-48-4	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA							
Total Dissolved Solids	**40.0**	mg/L	25.0	1		08/28/23 18:45		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville							
Alkalinity,Bicarbonate (CaCO3)	**31.8**	mg/L	5.0	1		08/25/23 14:15		
Alkalinity, Total as CaCO3	**31.8**	mg/L	5.0	1		08/25/23 14:15		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville							
Chloride	**3.6**	mg/L	1.0	1		08/26/23 00:38	16887-00-6	
Fluoride	ND	mg/L	0.10	1		08/26/23 00:38	16984-48-8	
Sulfate	**1.9**	mg/L	1.0	1		08/26/23 00:38	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Branch-CCR Ash Pond-Revised Report
Pace Project No.: 92684547

Sample: BRA-LR+8(mid) **Lab ID: 92684547010** Collected: 08/23/23 10:38 Received: 08/24/23 14:44 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Boron	ND	mg/L	0.040	1	08/29/23 14:47	08/30/23 03:09	7440-42-8	
Potassium	**2.4**	mg/L	0.50	1	08/29/23 14:47	08/30/23 03:09	7440-09-7	
Sodium	**5.0**	mg/L	1.0	1	08/29/23 14:47	08/30/23 03:09	7440-23-5	
Calcium	**5.6**	mg/L	1.0	1	08/29/23 14:47	08/30/23 03:09	7440-70-2	
Magnesium	**2.8**	mg/L	0.050	1	08/29/23 14:47	08/30/23 03:09	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Cobalt	ND	mg/L	0.0050	1	08/28/23 13:48	08/31/23 19:37	7440-48-4	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA							
Total Dissolved Solids	**50.0**	mg/L	25.0	1		08/28/23 18:46		D6
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville							
Alkalinity,Bicarbonate (CaCO3)	**32.3**	mg/L	5.0	1		08/25/23 14:21		
Alkalinity, Total as CaCO3	**32.3**	mg/L	5.0	1		08/25/23 14:21		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville							
Chloride	**3.7**	mg/L	1.0	1		08/26/23 00:53	16887-00-6	
Fluoride	ND	mg/L	0.10	1		08/26/23 00:53	16984-48-8	
Sulfate	**2.0**	mg/L	1.0	1		08/26/23 00:53	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Branch-CCR Ash Pond-Revised Report
Pace Project No.: 92684547

Sample: BRA-LR+8(bottom) **Lab ID: 92684547011** Collected: 08/23/23 10:41 Received: 08/24/23 14:44 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Boron	ND	mg/L	0.040	1	08/29/23 14:47	08/30/23 03:14	7440-42-8	
Potassium	**2.5**	mg/L	0.50	1	08/29/23 14:47	08/30/23 03:14	7440-09-7	
Sodium	**5.1**	mg/L	1.0	1	08/29/23 14:47	08/30/23 03:14	7440-23-5	
Calcium	**5.7**	mg/L	1.0	1	08/29/23 14:47	08/30/23 03:14	7440-70-2	
Magnesium	**2.8**	mg/L	0.050	1	08/29/23 14:47	08/30/23 03:14	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Cobalt	ND	mg/L	0.0050	1	08/28/23 13:48	08/31/23 19:43	7440-48-4	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA							
Total Dissolved Solids	**50.0**	mg/L	25.0	1		08/28/23 18:47		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville							
Alkalinity,Bicarbonate (CaCO3)	**32.5**	mg/L	5.0	1		08/25/23 14:27		
Alkalinity, Total as CaCO3	**32.5**	mg/L	5.0	1		08/25/23 14:27		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville							
Chloride	**3.7**	mg/L	1.0	1		08/26/23 01:08	16887-00-6	
Fluoride	ND	mg/L	0.10	1		08/26/23 01:08	16984-48-8	
Sulfate	**2.0**	mg/L	1.0	1		08/26/23 01:08	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Branch-CCR Ash Pond-Revised Report
Pace Project No.: 92684547

Sample: BRA-LR+9(surface) **Lab ID: 92684547012** Collected: 08/23/23 10:29 Received: 08/24/23 14:44 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Boron	ND	mg/L	0.040	1	08/29/23 14:47	08/30/23 03:20	7440-42-8	
Potassium	**2.5**	mg/L	0.50	1	08/29/23 14:47	08/30/23 03:20	7440-09-7	
Sodium	**4.9**	mg/L	1.0	1	08/29/23 14:47	08/30/23 03:20	7440-23-5	
Calcium	**5.5**	mg/L	1.0	1	08/29/23 14:47	08/30/23 03:20	7440-70-2	
Magnesium	**2.6**	mg/L	0.050	1	08/29/23 14:47	08/30/23 03:20	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Cobalt	ND	mg/L	0.0050	1	08/28/23 13:48	08/31/23 19:49	7440-48-4	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA							
Total Dissolved Solids	**44.0**	mg/L	25.0	1		08/28/23 18:47		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville							
Alkalinity,Bicarbonate (CaCO3)	**31.6**	mg/L	5.0	1		08/25/23 14:45		
Alkalinity, Total as CaCO3	**31.6**	mg/L	5.0	1		08/25/23 14:45		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville							
Chloride	**3.8**	mg/L	1.0	1		08/26/23 01:24	16887-00-6	
Fluoride	ND	mg/L	0.10	1		08/26/23 01:24	16984-48-8	
Sulfate	**2.1**	mg/L	1.0	1		08/26/23 01:24	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Branch-CCR Ash Pond-Revised Report
Pace Project No.: 92684547

Sample: BRA-LR+9(mid) **Lab ID: 92684547013** Collected: 08/23/23 10:32 Received: 08/24/23 14:44 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Boron	ND	mg/L	0.040	1	08/29/23 14:47	08/30/23 03:25	7440-42-8	
Potassium	**2.4**	mg/L	0.50	1	08/29/23 14:47	08/30/23 03:25	7440-09-7	
Sodium	**4.6**	mg/L	1.0	1	08/29/23 14:47	08/30/23 03:25	7440-23-5	
Calcium	**5.2**	mg/L	1.0	1	08/29/23 14:47	08/30/23 03:25	7440-70-2	
Magnesium	**2.5**	mg/L	0.050	1	08/29/23 14:47	08/30/23 03:25	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Cobalt	ND	mg/L	0.0050	1	08/28/23 13:48	08/31/23 19:55	7440-48-4	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA							
Total Dissolved Solids	**42.0**	mg/L	25.0	1		08/28/23 18:47		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville							
Alkalinity,Bicarbonate (CaCO3)	**30.7**	mg/L	5.0	1		08/25/23 14:52		
Alkalinity, Total as CaCO3	**30.7**	mg/L	5.0	1		08/25/23 14:52		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville							
Chloride	**3.8**	mg/L	1.0	1		08/26/23 01:41	16887-00-6	
Fluoride	ND	mg/L	0.10	1		08/26/23 01:41	16984-48-8	
Sulfate	**2.1**	mg/L	1.0	1		08/26/23 01:41	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Branch-CCR Ash Pond-Revised Report
Pace Project No.: 92684547

Sample: BRA-LR+9(bottom) **Lab ID: 92684547014** Collected: 08/23/23 10:35 Received: 08/24/23 14:44 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Boron	ND	mg/L	0.040	1	08/29/23 14:47	08/30/23 03:40	7440-42-8	
Potassium	**2.4**	mg/L	0.50	1	08/29/23 14:47	08/30/23 03:40	7440-09-7	
Sodium	**4.9**	mg/L	1.0	1	08/29/23 14:47	08/30/23 03:40	7440-23-5	
Calcium	**5.5**	mg/L	1.0	1	08/29/23 14:47	08/30/23 03:40	7440-70-2	
Magnesium	**2.6**	mg/L	0.050	1	08/29/23 14:47	08/30/23 03:40	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Cobalt	ND	mg/L	0.0050	1	08/28/23 13:48	08/31/23 20:01	7440-48-4	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA							
Total Dissolved Solids	**52.0**	mg/L	25.0	1		08/28/23 18:47		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville							
Alkalinity,Bicarbonate (CaCO3)	**31.0**	mg/L	5.0	1		08/25/23 15:06		
Alkalinity, Total as CaCO3	**31.0**	mg/L	5.0	1		08/25/23 15:06		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville							
Chloride	**3.8**	mg/L	1.0	1		08/26/23 01:56	16887-00-6	
Fluoride	ND	mg/L	0.10	1		08/26/23 01:56	16984-48-8	
Sulfate	**2.1**	mg/L	1.0	1		08/26/23 01:56	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Branch-CCR Ash Pond-Revised Report
Pace Project No.: 92684547

Sample: BRA-LR+10(surface) **Lab ID: 92684547015** Collected: 08/23/23 10:11 Received: 08/24/23 14:44 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Boron	ND	mg/L	0.040	1	08/29/23 14:47	08/30/23 03:45	7440-42-8	
Potassium	**2.7**	mg/L	0.50	1	08/29/23 14:47	08/30/23 03:45	7440-09-7	
Sodium	**5.1**	mg/L	1.0	1	08/29/23 14:47	08/30/23 03:45	7440-23-5	
Calcium	**5.7**	mg/L	1.0	1	08/29/23 14:47	08/30/23 03:45	7440-70-2	
Magnesium	**2.6**	mg/L	0.050	1	08/29/23 14:47	08/30/23 03:45	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Cobalt	ND	mg/L	0.0050	1	08/28/23 13:48	08/31/23 20:07	7440-48-4	
Selenium	ND	mg/L	0.0050	1	08/28/23 13:48	08/31/23 20:07	7782-49-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA							
Total Dissolved Solids	**36.0**	mg/L	25.0	1		08/28/23 18:48		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville							
Alkalinity,Bicarbonate (CaCO3)	**30.2**	mg/L	5.0	1		08/25/23 15:12		
Alkalinity, Total as CaCO3	**30.2**	mg/L	5.0	1		08/25/23 15:12		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville							
Chloride	**3.9**	mg/L	1.0	1		08/26/23 02:12	16887-00-6	
Fluoride	ND	mg/L	0.10	1		08/26/23 02:12	16984-48-8	
Sulfate	**2.2**	mg/L	1.0	1		08/26/23 02:12	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Branch-CCR Ash Pond-Revised Report
Pace Project No.: 92684547

Sample: BRA-LR+10(mid) **Lab ID: 92684547016** Collected: 08/23/23 10:14 Received: 08/24/23 14:44 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Boron	ND	mg/L	0.040	1	08/29/23 14:47	08/30/23 03:51	7440-42-8	
Potassium	**2.5**	mg/L	0.50	1	08/29/23 14:47	08/30/23 03:51	7440-09-7	
Sodium	**4.9**	mg/L	1.0	1	08/29/23 14:47	08/30/23 03:51	7440-23-5	
Calcium	**5.5**	mg/L	1.0	1	08/29/23 14:47	08/30/23 03:51	7440-70-2	
Magnesium	**2.5**	mg/L	0.050	1	08/29/23 14:47	08/30/23 03:51	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Cobalt	ND	mg/L	0.0050	1	08/28/23 13:48	08/31/23 20:25	7440-48-4	
Selenium	ND	mg/L	0.0050	1	08/28/23 13:48	08/31/23 20:25	7782-49-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA							
Total Dissolved Solids	**46.0**	mg/L	25.0	1		08/28/23 18:48		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville							
Alkalinity,Bicarbonate (CaCO3)	**30.0**	mg/L	5.0	1		08/25/23 15:18		
Alkalinity, Total as CaCO3	**30.0**	mg/L	5.0	1		08/25/23 15:18		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville							
Chloride	**3.9**	mg/L	1.0	1		08/26/23 02:28	16887-00-6	
Fluoride	ND	mg/L	0.10	1		08/26/23 02:28	16984-48-8	
Sulfate	**2.2**	mg/L	1.0	1		08/26/23 02:28	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Branch-CCR Ash Pond-Revised Report
Pace Project No.: 92684547

Sample: BRA-LR+10(bottom) **Lab ID: 92684547017** Collected: 08/23/23 10:19 Received: 08/24/23 14:44 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Boron	ND	mg/L	0.040	1	08/29/23 14:47	08/30/23 03:56	7440-42-8	
Potassium	**2.5**	mg/L	0.50	1	08/29/23 14:47	08/30/23 03:56	7440-09-7	
Sodium	**4.9**	mg/L	1.0	1	08/29/23 14:47	08/30/23 03:56	7440-23-5	
Calcium	**5.5**	mg/L	1.0	1	08/29/23 14:47	08/30/23 03:56	7440-70-2	
Magnesium	**2.6**	mg/L	0.050	1	08/29/23 14:47	08/30/23 03:56	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Cobalt	ND	mg/L	0.0050	1	08/28/23 13:48	08/31/23 20:37	7440-48-4	
Selenium	ND	mg/L	0.0050	1	08/28/23 13:48	08/31/23 20:37	7782-49-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA							
Total Dissolved Solids	**45.0**	mg/L	25.0	1		08/28/23 18:48		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville							
Alkalinity,Bicarbonate (CaCO3)	**31.1**	mg/L	5.0	1		08/25/23 15:23		
Alkalinity, Total as CaCO3	**31.1**	mg/L	5.0	1		08/25/23 15:23		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville							
Chloride	**3.8**	mg/L	1.0	1		08/26/23 02:44	16887-00-6	
Fluoride	ND	mg/L	0.10	1		08/26/23 02:44	16984-48-8	
Sulfate	**2.1**	mg/L	1.0	1		08/26/23 02:44	14808-79-8	

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QUALITY CONTROL DATA

Project: Plant Branch-CCR Ash Pond-Revised Report
Pace Project No.: 92684547

QC Batch: 796578
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92684547001, 92684547002, 92684547003, 92684547004, 92684547005, 92684547006, 92684547007, 92684547008, 92684547009, 92684547010, 92684547011, 92684547012, 92684547013, 92684547014, 92684547015, 92684547016, 92684547017

METHOD BLANK: 4127072 Matrix: Water
Associated Lab Samples: 92684547001, 92684547002, 92684547003, 92684547004, 92684547005, 92684547006, 92684547007, 92684547008, 92684547009, 92684547010, 92684547011, 92684547012, 92684547013, 92684547014, 92684547015, 92684547016, 92684547017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron	mg/L	ND	0.040	08/30/23 01:47	
Calcium	mg/L	ND	1.0	08/30/23 01:47	
Magnesium	mg/L	ND	0.050	08/30/23 01:47	
Potassium	mg/L	ND	0.50	08/30/23 01:47	
Sodium	mg/L	ND	1.0	08/30/23 01:47	

LABORATORY CONTROL SAMPLE: 4127073

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	1	0.99	99	80-120	
Calcium	mg/L	1	1.1	113	80-120	
Magnesium	mg/L	1	1.1	113	80-120	
Potassium	mg/L	1	1.1	108	80-120	
Sodium	mg/L	1	1.1	107	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4127074 4127075

Parameter	Units	92684547003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	mg/L	ND	1	1	0.98	0.99	97	98	75-125	1	20	
Calcium	mg/L	5.9	1	1	6.8	6.8	88	88	75-125	0	20	
Magnesium	mg/L	3.0	1	1	4.0	4.0	95	96	75-125	0	20	
Potassium	mg/L	2.6	1	1	3.5	3.4	99	87	75-125	3	20	
Sodium	mg/L	5.3	1	1	6.1	6.0	79	69	75-125	2	20	M1

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QUALITY CONTROL DATA

Project: Plant Branch-CCR Ash Pond-Revised Report
Pace Project No.: 92684547

QC Batch: 796376
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92684547001, 92684547002, 92684547003, 92684547004, 92684547005, 92684547006, 92684547007, 92684547008, 92684547009, 92684547010, 92684547011, 92684547012, 92684547013, 92684547014, 92684547015, 92684547016, 92684547017

METHOD BLANK: 4126238 Matrix: Water
Associated Lab Samples: 92684547001, 92684547002, 92684547003, 92684547004, 92684547005, 92684547006, 92684547007, 92684547008, 92684547009, 92684547010, 92684547011, 92684547012, 92684547013, 92684547014, 92684547015, 92684547016, 92684547017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cobalt	mg/L	ND	0.0050	08/31/23 18:02	
Selenium	mg/L	ND	0.0050	08/31/23 18:02	

LABORATORY CONTROL SAMPLE: 4126239

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cobalt	mg/L	0.1	0.097	97	80-120	
Selenium	mg/L	0.1	0.096	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4126240 4126241

Parameter	Units	92684547003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cobalt	mg/L	ND	0.1	0.1	0.10	0.10	101	102	75-125	2	20	
Selenium	mg/L	ND	0.1	0.1	0.10	0.10	100	100	75-125	1	20	

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QUALITY CONTROL DATA

Project: Plant Branch-CCR Ash Pond-Revised Report
Pace Project No.: 92684547

QC Batch: 796395
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92684547001, 92684547002, 92684547003, 92684547004, 92684547005, 92684547006, 92684547007, 92684547008, 92684547009, 92684547010, 92684547011, 92684547012, 92684547013, 92684547014, 92684547015, 92684547016, 92684547017

METHOD BLANK: 4126358 Matrix: Water
Associated Lab Samples: 92684547001, 92684547002, 92684547003, 92684547004, 92684547005, 92684547006, 92684547007, 92684547008, 92684547009, 92684547010, 92684547011, 92684547012, 92684547013, 92684547014, 92684547015, 92684547016, 92684547017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	08/28/23 18:44	

LABORATORY CONTROL SAMPLE: 4126359

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	383	96	80-120	

SAMPLE DUPLICATE: 4126360

Parameter	Units	92683381042 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	ND	ND		10	

SAMPLE DUPLICATE: 4126361

Parameter	Units	92684547010 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	50.0	85.0	52	10	D6

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QUALITY CONTROL DATA

Project: Plant Branch-CCR Ash Pond-Revised Report
Pace Project No.: 92684547

QC Batch: 795999
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92684547001, 92684547002, 92684547003, 92684547004, 92684547005, 92684547006, 92684547007, 92684547008, 92684547009, 92684547010, 92684547011, 92684547012, 92684547013, 92684547014, 92684547015, 92684547016, 92684547017

METHOD BLANK: 4124638 Matrix: Water
Associated Lab Samples: 92684547001, 92684547002, 92684547003, 92684547004, 92684547005, 92684547006, 92684547007, 92684547008, 92684547009, 92684547010, 92684547011, 92684547012, 92684547013, 92684547014, 92684547015, 92684547016, 92684547017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	08/25/23 12:46	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	08/25/23 12:46	

LABORATORY CONTROL SAMPLE: 4124639

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.1	102	80-120	

LABORATORY CONTROL SAMPLE: 4124640

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	49.9	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4124641 4124642

Parameter	Units	92684547001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	34.4	50	50	84.4	84.9	100	101	80-120	1	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4124643 4124644

Parameter	Units	92684547011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	32.5	50	50	81.9	81.4	99	98	80-120	1	25	

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QUALITY CONTROL DATA

Project: Plant Branch-CCR Ash Pond-Revised Report
Pace Project No.: 92684547

QC Batch: 795900
QC Batch Method: EPA 9056A
Analysis Method: EPA 9056A
Analysis Description: 9056 IC anions 28 Days
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92684547001, 92684547002, 92684547003, 92684547004, 92684547005, 92684547006, 92684547007, 92684547008, 92684547009, 92684547010, 92684547011, 92684547012, 92684547013, 92684547014, 92684547015, 92684547016, 92684547017

METHOD BLANK: 4124196 Matrix: Water
Associated Lab Samples: 92684547001, 92684547002, 92684547003, 92684547004, 92684547005, 92684547006, 92684547007, 92684547008, 92684547009, 92684547010, 92684547011, 92684547012, 92684547013, 92684547014, 92684547015, 92684547016, 92684547017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	08/25/23 12:32	
Fluoride	mg/L	ND	0.10	08/25/23 12:32	
Sulfate	mg/L	ND	1.0	08/25/23 12:32	

LABORATORY CONTROL SAMPLE: 4124197

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.5	101	90-110	
Fluoride	mg/L	2.5	2.5	99	90-110	
Sulfate	mg/L	50	50.6	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4124200 4124201

Parameter	Units	92684547008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	3.8	50	50	51.4	51.3	95	95	90-110	0	10	
Fluoride	mg/L	ND	2.5	2.5	2.3	2.3	88	88	90-110	0	10	M1
Sulfate	mg/L	2.3	50	50	50.3	50.1	96	96	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4124625 4124626

Parameter	Units	92684547001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	3.6	50	50	51.5	51.4	96	96	90-110	0	10	
Fluoride	mg/L	ND	2.5	2.5	2.3	2.3	90	90	90-110	1	10	
Sulfate	mg/L	2.2	50	50	49.8	49.7	95	95	90-110	0	10	

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QUALIFIERS

Project: Plant Branch-CCR Ash Pond-Revised Report
Pace Project No.: 92684547

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

D6	The precision between the sample and sample duplicate exceeded laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Branch-CCR Ash Pond-Revised Report
Pace Project No.: 92684547

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92684547001	**BRA-LR-1(surface)**	EPA 3010A	796578	EPA 6010D	796696
92684547002	**BRA-LR-1(mid)**	EPA 3010A	796578	EPA 6010D	796696
92684547003	**BRA-LR-1(bottom)**	EPA 3010A	796578	EPA 6010D	796696
92684547004	**BRA-LS+3A(surface)**	EPA 3010A	796578	EPA 6010D	796696
92684547005	**BRA-LS+3(surface)**	EPA 3010A	796578	EPA 6010D	796696
92684547006	**BRA-LS+3(mid)**	EPA 3010A	796578	EPA 6010D	796696
92684547007	**BRA-LR+8A(surface)**	EPA 3010A	796578	EPA 6010D	796696
92684547008	**BRA-LR+9A(surface)**	EPA 3010A	796578	EPA 6010D	796696
92684547009	**BRA-LR+8(surface)**	EPA 3010A	796578	EPA 6010D	796696
92684547010	**BRA-LR+8(mid)**	EPA 3010A	796578	EPA 6010D	796696
92684547011	**BRA-LR+8(bottom)**	EPA 3010A	796578	EPA 6010D	796696
92684547012	**BRA-LR+9(surface)**	EPA 3010A	796578	EPA 6010D	796696
92684547013	**BRA-LR+9(mid)**	EPA 3010A	796578	EPA 6010D	796696
92684547014	**BRA-LR+9(bottom)**	EPA 3010A	796578	EPA 6010D	796696
92684547015	**BRA-LR+10(surface)**	EPA 3010A	796578	EPA 6010D	796696
92684547016	**BRA-LR+10(mid)**	EPA 3010A	796578	EPA 6010D	796696
92684547017	**BRA-LR+10(bottom)**	EPA 3010A	796578	EPA 6010D	796696
92684547001	**BRA-LR-1(surface)**	EPA 3005A	796376	EPA 6020B	796446
92684547002	**BRA-LR-1(mid)**	EPA 3005A	796376	EPA 6020B	796446
92684547003	**BRA-LR-1(bottom)**	EPA 3005A	796376	EPA 6020B	796446
92684547004	**BRA-LS+3A(surface)**	EPA 3005A	796376	EPA 6020B	796446
92684547005	**BRA-LS+3(surface)**	EPA 3005A	796376	EPA 6020B	796446
92684547006	**BRA-LS+3(mid)**	EPA 3005A	796376	EPA 6020B	796446
92684547007	**BRA-LR+8A(surface)**	EPA 3005A	796376	EPA 6020B	796446
92684547008	**BRA-LR+9A(surface)**	EPA 3005A	796376	EPA 6020B	796446
92684547009	**BRA-LR+8(surface)**	EPA 3005A	796376	EPA 6020B	796446
92684547010	**BRA-LR+8(mid)**	EPA 3005A	796376	EPA 6020B	796446
92684547011	**BRA-LR+8(bottom)**	EPA 3005A	796376	EPA 6020B	796446
92684547012	**BRA-LR+9(surface)**	EPA 3005A	796376	EPA 6020B	796446
92684547013	**BRA-LR+9(mid)**	EPA 3005A	796376	EPA 6020B	796446
92684547014	**BRA-LR+9(bottom)**	EPA 3005A	796376	EPA 6020B	796446
92684547015	**BRA-LR+10(surface)**	EPA 3005A	796376	EPA 6020B	796446
92684547016	**BRA-LR+10(mid)**	EPA 3005A	796376	EPA 6020B	796446
92684547017	**BRA-LR+10(bottom)**	EPA 3005A	796376	EPA 6020B	796446
92684547001	**BRA-LR-1(surface)**	SM 2540C-2015	796395		
92684547002	**BRA-LR-1(mid)**	SM 2540C-2015	796395		
92684547003	**BRA-LR-1(bottom)**	SM 2540C-2015	796395		
92684547004	**BRA-LS+3A(surface)**	SM 2540C-2015	796395		
92684547005	**BRA-LS+3(surface)**	SM 2540C-2015	796395		
92684547006	**BRA-LS+3(mid)**	SM 2540C-2015	796395		
92684547007	**BRA-LR+8A(surface)**	SM 2540C-2015	796395		
92684547008	**BRA-LR+9A(surface)**	SM 2540C-2015	796395		
92684547009	**BRA-LR+8(surface)**	SM 2540C-2015	796395		
92684547010	**BRA-LR+8(mid)**	SM 2540C-2015	796395		
92684547011	**BRA-LR+8(bottom)**	SM 2540C-2015	796395		
92684547012	**BRA-LR+9(surface)**	SM 2540C-2015	796395		
92684547013	**BRA-LR+9(mid)**	SM 2540C-2015	796395		
92684547014	**BRA-LR+9(bottom)**	SM 2540C-2015	796395		

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Branch-CCR Ash Pond-Revised Report
Pace Project No.: 92684547

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92684547015	**BRA-LR+10(surface)**	SM 2540C-2015	796395		
92684547016	**BRA-LR+10(mid)**	SM 2540C-2015	796395		
92684547017	**BRA-LR+10(bottom)**	SM 2540C-2015	796395		
92684547001	**BRA-LR-1(surface)**	SM 2320B-2011	795999		
92684547002	**BRA-LR-1(mid)**	SM 2320B-2011	795999		
92684547003	**BRA-LR-1(bottom)**	SM 2320B-2011	795999		
92684547004	**BRA-LS+3A(surface)**	SM 2320B-2011	795999		
92684547005	**BRA-LS+3(surface)**	SM 2320B-2011	795999		
92684547006	**BRA-LS+3(mid)**	SM 2320B-2011	795999		
92684547007	**BRA-LR+8A(surface)**	SM 2320B-2011	795999		
92684547008	**BRA-LR+9A(surface)**	SM 2320B-2011	795999		
92684547009	**BRA-LR+8(surface)**	SM 2320B-2011	795999		
92684547010	**BRA-LR+8(mid)**	SM 2320B-2011	795999		
92684547011	**BRA-LR+8(bottom)**	SM 2320B-2011	795999		
92684547012	**BRA-LR+9(surface)**	SM 2320B-2011	795999		
92684547013	**BRA-LR+9(mid)**	SM 2320B-2011	795999		
92684547014	**BRA-LR+9(bottom)**	SM 2320B-2011	795999		
92684547015	**BRA-LR+10(surface)**	SM 2320B-2011	795999		
92684547016	**BRA-LR+10(mid)**	SM 2320B-2011	795999		
92684547017	**BRA-LR+10(bottom)**	SM 2320B-2011	795999		
92684547001	**BRA-LR-1(surface)**	EPA 9056A	795900		
92684547002	**BRA-LR-1(mid)**	EPA 9056A	795900		
92684547003	**BRA-LR-1(bottom)**	EPA 9056A	795900		
92684547004	**BRA-LS+3A(surface)**	EPA 9056A	795900		
92684547005	**BRA-LS+3(surface)**	EPA 9056A	795900		
92684547006	**BRA-LS+3(mid)**	EPA 9056A	795900		
92684547007	**BRA-LR+8A(surface)**	EPA 9056A	795900		
92684547008	**BRA-LR+9A(surface)**	EPA 9056A	795900		
92684547009	**BRA-LR+8(surface)**	EPA 9056A	795900		
92684547010	**BRA-LR+8(mid)**	EPA 9056A	795900		
92684547011	**BRA-LR+8(bottom)**	EPA 9056A	795900		
92684547012	**BRA-LR+9(surface)**	EPA 9056A	795900		
92684547013	**BRA-LR+9(mid)**	EPA 9056A	795900		
92684547014	**BRA-LR+9(bottom)**	EPA 9056A	795900		
92684547015	**BRA-LR+10(surface)**	EPA 9056A	795900		
92684547016	**BRA-LR+10(mid)**	EPA 9056A	795900		
92684547017	**BRA-LR+10(bottom)**	EPA 9056A	795900		

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 1 Of 2

WO# : 92684547

92684547

Section A — Required Client Information:

Company	ARCADIS - Atlanta
Address	2839 Paces Ferry Rd
	Atlanta, GA 30339
Email	kelley.sharpe@arcadis.com
Phone	770 384-6584 Fax
Requested Due Date	5 Day TAT

Section B — Required Project Information:

Report To	Kelley Sharpe, Warren Johnson
Copy To	Ben Hodges, Joju Abraham
Purchase Order #	GPC1 1054869
Project Name	Plant Branch-CCR Ash Pond Closure
Project #	

Section C — Invoice Information:

Attention:	
Company Name	
Address	
Pace Quote	
Pace Project Manager	mary.parker@pacelabs.com
Pace Profile #	12769

SAMPLE ID
One Character per box.
(A-Z, 0-9 / , -)
Sample IDs must be unique

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ITEM #	SAMPLE ID	MATRIX CODE (Use valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Total/Rad/Ra-226 & Kelliny	C F 304	TDS	App III Metals - B Ca	Metals - Mg Na K	App IV Metals - Co only	App IV Metals - Co Se only	App IV Metals - Se only	Residual Chlorine (Y/N)	
1	BRA-LR-1 (surface)	WS	G	8/23/23	1100				3	X		X							X	X	X	X	X		X		
2	BRA-LR-1 (mid)	WS	G		1103				3	X		X							X	X	X	X	X		X		
3	BRA-LR-1 (bottom)	WS	G		1106				3	X		X							X	X	X	X	X		X		
4	BRA-LS+3A (surface)	WS	G		1054				3	X		X							X	X	X	X	X			X	
5	BRA-LS+3 (surface)	WS	G		1049				3	X		X							X	X	X	X	X			X	
6	BRA-LS+3 (mid)	WS	G		1052				3	X		X							X	X	X	X	X			X	
7	BRA-LR+8A (surface)	WS	G		1136				3	X		X							X	X	X	X	X	X			@1136
8	BRA-LR+9A (surface)	WS	G		1140				3	X		X							X	X	X	X	X	X			
9	BRA-LR+8 (surface)	WS	G		1035				3	X		X							X	X	X	X	X	X			
10	BRA-LR+8 (mid)	WS	G		1038				3	X		X							X	X	X	X	X	X			
11	BRA-LR+8 (bottom)	WS	G		1041				3	X		X							X	X	X	X	X	X			
12	BRA-LR+9 (surface)	WS	G		1029				3	X		X							X	X	X	X	X	X			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
BRA-CSURF-ASSMT-202382	[signature] Arcadis	8/24/23	1448	[signature]	8-24	1448	
App. IV - Co, Se							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER: [signature]

DATE Signed: 8-24-23

Temp in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 2 Of 2

WO# : 92684547
PM: MP Due Date: 09/01/23
CLIENT: GA-AreadRtl

Section A — Required Client Information:

Company	ARCADIS - Atlanta
Address	2839 Paces Ferry Rd
	Atlanta, GA 30339
Email	kelley.sharpe@arcadis.com
Phone	770 384-6584 Fax
Requested Due Date	5 Day TAT

Section B — Required Project Information:

Report To	Kelley Sharpe, Warren Johnson
Copy To	Ben Hodges, Jojo Abraham
Purchase Order #	GPC11084689
Project Name	Plant Branch-CCR Ash Pond Closure
Project #	

Section C — Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	sonja.parks@pacelabs.com
Pace Profile #:	12759

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample IDs must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analysis Test: Y/N	Total/Bicarb Alkalinity	Cl, F, SO4	TDS	App. III Metals - B, Ca	App. III Metals - Mg, Na, K	App. IV Metals - Cr only	App. IV Metals - Co Se only	App. IV Metals - Se only	Residual Chlorine (Y/N)
13	BRA LR+9 (mid)	WS	G	8/14/23	1632				3	X		X							X	X	X	X	X	X		
14	BRA-LR+9 (bottom)	WS	G		1635				3	X		X							X	X	X	X	X	X		
15	BRA LR+10 (surface)	WS	G		1011				3	X		X							X	X	X	X	X		X	
16	BRA LR+10 (mid)	WS	G		1014				3	X		X							X	X	X	X	X		X	
17	BRA LR+10 (bottom)	WS	G		1019				3	X		X							X	X	X	X	X		X	
18																										
19																										
20																										
21																										
22																										
23																										
24																										

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
BRA-CSURP-ASSMT-202352	Arcadis	8/24/23	1448		8-24	1448	
App. IV - Co, Se							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER: DATE Signed: 8-24-23

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Sample Condition Upon Receipt

Client Name: ARCADIS

Project #:

WO#: 92684547

PM: MP Due Date: 09/01/23

CLIENT: GA-ArcadAtl

Couriers: ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Commercial ☐ Pace ☐ Other:

Custody Seal Present? ☑ Yes ☐ No Seals Intact? ☑ Yes ☐ No

Date/Initials Person Examining Contents: 8/24-JAK

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☑ No ☐ N/A

Thermometer: ☑ IR Gun ID: 230

Type of Ice: ☐ Wet ☑ Blue ☐ None

Cooler Temp: 22.8 Correction Factor: Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C

☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 22.8

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☑ Yes	☐ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☑ No	☐ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
Includes Date/Time/ID/Analysis Matrix: WS				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

***Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.**

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

****Bottom half of box is to list number of bottles**

*****Check all unpreserved Nitrates for chlorine**

Project # **WO#: 92684547**

PM: HP Due Date: 08/01/23

CLIENT: GA-ReadAtl

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (CL)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 ml Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 ml Plastic H2SO4 (pH < 2) (CL)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (CL)	WGFU Wide mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (CL)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (CL)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9H-40 mL VOA HCl (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KPFU 50 mL Plastic Unpreserved (N/A)	VJGK [3 vials per kit]-VPH/Gas kit (N/A)	SPST-125 ml Sterile Plastic (N/A - Cl)	SP2T-250 mL Sterile Plastic (N/A - Cl)	BP3R-250 mL Plastic (NH4)2SO4 (9.3-9.7)	AG0U 100 mL Amber Unpreserved (N/A) (CL)	VSGU-20 mL Septa vials (N/A)	DG9U 40 mL Amber Unpreserved vials (N/A)
1			2																						
2			2																						
3			2																						
4			2																						
5			2																						
6			2																						
7			2																						
8			2																						
9			2																						
10			2																						
11			2																						
12			2																						

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

WO# : 92684547

PM: MP Due Date: 08/01/23

CLIENT: GA-AreaAtl

***Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.**

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, ULHg

Project #

****Bottom half of box is to list number of bottles**

*****Check all unpreserved Nitrates for chlorine**

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (CL+)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (CL+)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (CL+)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (CL+)	AG1H 1 liter Amber HCL (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (CL+)	AG1S 1 liter Amber H2SO4 (pH < 2)	AG4S-250 mL Amber H2SO4 (pH < 2)	DG84-40 mL Amber NH4Cl (N/A)(CL+)	DG9H-40 mL VOA HCL (N/A)	VG9U-40 mL VOA NaHSO3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U 50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VOA/Gaskets (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T 250 mL Sterile Plastic (N/A – lab)	BP3R-250 mL Plastic (NH4)2SO4 (pH 9.5-7)	AG0U-100 mL Amber Unpreserved (N/A) (CL+)	VSGU-20 mL Scintillation vials (N/A)	DG9U 40 mL Amber Unpreserved vials (N/A)
1						1																					
2						1																					
3						1																					
4						1																					
5																											
6																											
7																											
8																											
9																											
10																											
11																											
12																											

2 2 2 2 2

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Geosyntec consultants

180A Market Place Boulevard
Knoxville, TN 37922
PH 865.330.0037
www.geosyntec.com

Memorandum

Date:	8 February 2024
To:	Courtney Collins
From:	Ashley Wilson
CC:	K. Henderson
Subject:	**Stage 2A Data Validation - Level II Data Deliverables – GEL Laboratories, LLC Work Orders 634447, 634615, 634441, 634650, 634444, 634768 and 634784 and Eurofins Work Orders 680-239481-1 and 680-242425-1**

SITE: Plant Branch CCR Groundwater Compliance Semiannual Monitoring AP-BCD & AP-E

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of sixty-five groundwater samples including five equipment blanks, five field blanks and five field duplicate samples collected 21-24 August and 30 October – 1 November 2023, as part of the Plant Branch on-site sampling event.

The samples were analyzed at GEL Laboratories LLC, Charleston, SC, for the following analytical tests:

- Total and Dissolved Metals by United States (US) Environmental Protection Agency (EPA) Methods 3005A/6020B
- Mercury by US EPA Method 7470A
- Anions (Nitrate-Nitrogen (N), Chloride, Fluoride and Sulfate) by US EPA Method 300.0
- Total Dissolved Solids (TDS) by Standard Method (SM) 2540C
- Total Sulfide by SM 4500-S2-D
- Alkalinity by SM 2320B

The samples were analyzed at Eurofins Savannah, Savannah, GA, for the following analytical test:

- Total Sulfide by SM 4500 S2 F-2011

EXECUTIVE SUMMARY

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below and based on the information provided, the data as qualified are usable for supporting project objectives. The qualified data should be used within the limitations of the qualifications. If there are results with two or more different qualifications due to multiple QC failures, the final qualification is reconciled in the electronic data deliverable (EDD) with qualifications.

The data were reviewed based on the following documents, the pertinent methods referenced by the data package and professional and technical judgment:

- US EPA Region IV Data Validation Standard Operating Procedures (US EPA Region IV, September 2011); and
- USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review, November 2020 (EPA 542-R-20-006).

The following samples were analyzed and reported in the laboratory reports:

Laboratory IDs	Client IDs
680-239481-1	BRA-BRGWA-2I
680-239481-2	BRA-BRGWA-5I
680-239481-3	BRA-BRGWA-6S
680-239481-4	BRA-BRGWC-50
680-239481-5	BRA-PZ-57I
680-239481-6	BRA-PZ-59I
680-239481-7	BRA-PZ-64I
680-239481-8	BRA-PZ-65I
680-239481-9	BRA-BRGWC-33S
680-239481-10	BRA-BRGWC-35S
680-239481-11	BRA-BRGWC-38S
680-239481-12	BRA-PZ-76I
680-239481-13	BRA-PZ-77I
680-242425-1	BRA-BRGWA-2S
680-242425-2	BRA-BRGWA-2I
680-242425-3	BRA-PZ-44
680-242425-4	BRA-PZ-64I
680-242425-5	BRA-PZ-66I
680-242425-6	BRA-PZ-59I
680-242425-7	BRA-PZ-58I
680-242425-8	BRA-BRGWA-6S

Laboratory IDs	Client IDs
680-242425-9	BRA-PZ-51I
680-242425-10	BRA-PZ-51D
680-242425-11	BRA-PZ-57I
680-242425-12	BRA-PZ-65I
680-242425-13	BRA-PZ-61I
634615001	BRA-BRGWC-17S
634615002	BRA-BRGWC-35S
634615003	BRA-BRGWC-36S
634615004	BRA-BRGWC-38S
634615005	BRA-PZ-52D
634615006	BRA-PZ-70I
634615007	BRA-APE-FD-05
634615008	BRA-APE-FB-08
634615009	BRA-APE-EB-09
634615010	BRA-APE-EB-10
634441001	BRA-BRGWC-33S
634441002	BRA-APE-FD-04
634441003	BRA-BRGWC-34S
634441004	BRA-APE-FB-07
634441005	BRA-BRGWC-37S
634441006	BRA-PZ-13S

Laboratory IDs	Client IDs
634650001	BRA-PZ-51I
634650002	BRA-PZ-58I
634650003	BRA-PZ-59I
634650004	BRA-PZ-60I
634650005	BRA-PZ-63I
634650006	BRA-PZ-64I
634650007	BRA-PZ-68D
634650008	BRA-APBCD-FB-02
634650009	BRA-APBCD-FD-01
634650010	BRA-APBCD-FD-02
634650011	BRA-BRGWC-50
634650012	BRA-APBCD-EB-04
634650013	BRA-PZ-44
634650014	BRA-PZ-50D
634444003	BRA-BRGWA-23S
634444004	BRA-BRGWC-30I
634444005	BRA-BRGWC-32S
634444006	BRA-PZ-61I
634444007	BRA-APBCD-FB-01

Laboratory IDs	Client IDs
634768001	BRA-APBCD-FD-03
634768002	BRA-APBCD-EB-05
634768003	BRA-BRGWC-27I
634768004	BRA-BRGWC-45
634768005	BRA-PZ-75I
634768006	BRA-PZ-74I
634768007	BRA-BRGWC-29I
634768008	BRA-PZ-51D
634768009	BRA-APBCD-FB-03
634768010	BRA-APBCD-EB-06
634768011	BRA-BRGWC-52I
634768012	BRA-BRGWC-47
634768013	BRA-BRGWC-25I
634447001	BRA-BRGWA-2S
634447002	BRA-BRGWA-5S
634447003	BRA-BRGWA-5I
634447004	BRA-BRGWA-6S
634447005	BRA-BRGWA-2I
634784001	BRA-PZ-53D

The samples were received at 5.1, 5.0, 4.0, 3.0, 2.5, 2.8, 2.0 and 1.0 degrees Celsius (ºC), both within and outside of the EPA Region 4 criteria of 4ºC $\pm$ 2ºC. Since the samples were received between 0-6ºC and based on professional judgment, no qualifications were applied to the data. No sample preservation issues were noted by the laboratory.

634615, 634441, 634444, 634650, 634447 & 634784: The laboratory noted the containers for samples BRA-BRGWC-35S, BRA-BRGWC-36S, BRA-APE-FB-08, BRA-BRGWC-38S, BRA-APE-FD-05, BRA-GWC-34S, BRA-BRGWC-37S, BRA-PZ-13S, BRA-BRGWC-32S, BRA-BRGWC-30I, BRA-PZ-61I, BRA-BRGWA-23S, BRA-PZ-51I, BRA-PZ-60I, BRA-PZ-58I, BRA-PZ-63I, BRA-PZ-64I, BRA-PZ-68D, BRA-APBCD-FD-02, BRA-PZ-50D, BRA-BRGWC-50, BRA-PZ-59I, BRA-BRGWA-2S, BRA-BRGWA-6S, BRA-BRGWA-2I, BRA-BRAW-5I, BRA-PZI, BRA-BRGWC-27I, BRA-PZ-53D and BRA-BRGWC-29I were preserved with NaOH/Zinc, however, they did not hold preservation for sulfide. Samples were preserved upon receipt and placed on a 24-hour preservation hold.

634650: The second relinquishing time on the second page of the chain of custody (COC) did not match the relinquishing time on the first page.

634444 & 634447: The relinquished by time and the received by time for the second sample transfer were inconsistent on the COC. The relinquishing time was not documented in military time.

634784: The laboratory noted a discrepancy between the COC and container label for sample BRA-P2-74I, where the COC has "BRA-P2-74I," but the bottles have "BRA-P2-74."

The field pH data and field ferrous iron data included in the laboratory report were not validated.

1.0 METALS

The samples were analyzed for metals by US EPA methods 3005A/6020B.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable or not applicable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

✓ Overall Assessment
✓ Holding Time
✓ Method Blank
✓ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Laboratory Duplicate
⊗ Field Blank
⊗ Equipment Blank
✓ Field Duplicate
✓ Serial Dilution
✓ Sensitivity
✓ Electronic Data Deliverables Review

1.1 Overall Assessment

1.1.1 Completeness

The metals data reported in this laboratory report are considered usable for supporting project objectives. The results are considered valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

1.1.2 Analysis Anomaly

The laboratory noted that the contract required detection limit (CRDL) for calcium did not meet the laboratory specified acceptance criteria. Since the calcium results in the associated samples were significantly greater than the CRDL and based on professional and technical judgement, no qualifications were applied to the data.

The laboratory also noted that for the Inductively Coupled Plasma – Mass Spectrometry analysis, the Interference Check Sample (ICSA) solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

1.2 Holding Time

The holding time for the metals analysis of a water sample is 180 days from sample collection to analysis. The holding times were met.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Five method blanks were reported (batches 2482704, 2482706, 2483978, 2482702 and 2483978). Metals were not detected in the method blanks at or above the method detection limits (MDLs).

1.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSDs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Four sample set specific MS/MSD pairs were reported, using samples BRA-BRGWC-17S, BRA-BRGWC-34S, BRA-PZ-51I and BRA-BRGWC-27I. The recovery and relative percent difference (RPD) results were within the laboratory specified acceptance criteria.

One batch MS/MSD was also reported. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Five LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

1.6 Laboratory Duplicate

Laboratory duplicates were not reported for metals.

1.7 Field Blank

Five field blanks, BRA-APBCD-FB-01, BRA-APBCD-FB-02, BRA-APBCD-FB-03, BRA-APE-FB-07 and BRA-APE-FB-08 were collected with the sample set. Metals were not detected in the field blanks at or above the MDLs, with the following exceptions.

Boron (0.00673 and 0.00844 mg/L) was detected at an estimated concentrations greater than the MDL and less than the RL in field blanks BRA-APBCD-FB-01 and BRA-APBCD-FB-07, respectively. Therefore, the estimated boron concentrations in the associated samples were U qualified as not detected at the RL.

Barium (0.000729 and 0.00104 mg/L) and magnesium (0.0283 and 0.0112 mg/L) were detected at estimated concentrations greater than the MDLs and less than the RLs in field blanks BRA-APBCD-FB-01 and BRA-APBCD-FB-02, respectively. Therefore, the estimated concentrations of barium and magnesium in BRA-APBCD-EB-04 were U qualified as not detected at or above the RLs.

Calcium (0.105 mg/L) and manganese (0.00124 mg/L) were detected at estimated concentrations greater than the MDLs and less than the RLs in field blank BRA-APBCD-FB-02. Therefore, the estimated concentrations of calcium and manganese in BRA-APBCD-EB-04 were U qualified as not detected at or above the RLs.

Sodium (0.291, 0.37 and 0.185 mg/l) was detected in field blanks BRA-APBCD-FB-01 and BRA-APBCD-FB-02, respectively, at concentrations greater than the RL and detected in BRA-APBCD-FB-03 at an estimated concentration greater than the MDL and less than the RL. Therefore, the estimated concentrations of sodium in the associated samples were U qualified as not detected at or above the RL and the concentrations in samples BRA-APBCD-EB-04 and BRA-APBCD-EB-06 were J+ qualified as estimated with high bias.

Boron (0.0205 mg/L) was detected in field blank BRA-APE-FB-08 at a concentration greater than the RL. Therefore, the concentrations of boron in samples BRA-BRGWC-17S and BRA-PZ-52D were J+ qualified as estimated with high bias.

Barium (0.000714mg/L), calcium (0.085 mg/L) and magnesium (0.0147 mg/L) were detected at estimated concentrations greater than the MDLs and less than the RLs in field blank BRA-APE-FB-08. Therefore, the concentration of calcium in BRA-APE-EB-10 was J+ qualified as estimated with high bias and the estimated concentration of magnesium in BRA-APE-EB-10 was U qualified as not detected at or above the RL. Since barium was detected at concentrations greater than the RL in the associated samples and based on professional and technical judgment, no qualifications were applied to the data.

Sodium (0.282 mg/L) was detected in field blank BRA-APE-FB-08 at a concentration greater than the RL. Therefore, the concentration of sodium in sample BRA-APE-EB-10 was J+ qualified as estimated with high bias.

Sample ID	Compound	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier*	Reason Code**
BRA-APBCD-EB-05	Sodium	0.104	J	0.250	U	3
BRA-APBCD-EB-06	Sodium	0.352	NA	0.352	J+	3
BRA-APBCD-EB-04	Sodium	0.359	NA	0.359	J+	3
BRA-APBCD-EB-04	Barium	0.00138	J	0.00400	U	3
BRA-APBCD-EB-04	Magnesium	0.0165	J	0.0300	U	3
BRA-APBCD-EB-04	Manganese	0.0014	J	0.00500	U	3
BRA-APBCD-EB-04	Calcium	0.143	J	0.200	U	3
BRA-APE-EB-10	Calcium	0.361	NA	0.361	J+	3
BRA-APE-EB-10	Sodium	0.289	NA	0.289	J+	3
BRA-APE-EB-10	Magnesium	0.0142	J	0.0300	U	3
BRA-BRGWC-17S	Boron	0.0601	NA	0.0601	J+	3
BRA-PZ-52D	Boron	0.0668	NA	0.0668	J+	3
BRA-BRGWC-37S	Boron	0.00802	J	0.015	U	3
BRA-PZ-13S	Boron	0.00855	J	0.015	U	3
BRA-BRGWA-2I	Boron	0.00649	J	0.0052	U	3
BRA-BRGWA-2S	Boron	0.00738	J	0.0052	U	3
BRA-BRGWA-5I	Boron	0.0073	J	0.0052	U	3
BRA-BRGWA-5S	Boron	0.00764	J	0.0052	U	3
BRA-BRGWA-6S	Boron	0.00611	J	0.0052	U	3

mg/L- milligram per liter
J-the result is less than RL but greater than the MDL and the concentration is an approximate value
NA-not applicable
* Validation qualifiers are defined in Attachment 1 at the end of this report
**Reason codes are defined in Attachment 2 at the end of this report

1.8 Equipment Blank

Five equipment blanks, BRA-APBCD-EB-04, BRA-APBCD-EB-05, BRA-APBCD-EB-06, BRA-APE-EB-09 and BRA-APE-EB-10 were collected with the sample set. Metals were not detected in the equipment blanks at or above the MDLs, with the following exceptions.

Barium (0.000812 mg/L), calcium (0.115 mg/L), manganese (0.0014 mg/L) and magnesium (0.018 mg/L) were detected at estimated concentrations greater that the MDLs and less than the RLs in equipment blank BRA-APBCD-EB-04. Since the concentrations of these analytes in equipment blank BRA-APBCD-EB-04 were U qualified as not detected at the RL due to field blank contamination and based on professional and technical judgment, no additional qualifications were applied to the data.

Potassium (0.11 mg/L) was detected at an estimated concentration greater than the MDL and less than the RL in equipment blank BRA-APE-EB-10. Since the concentration of potassium in the associated samples was greater than ten times the blank concentration, and based on technical and professional judgement, no qualifications were applied to the data.

Sodium (0.359 mg/L) was detected in equipment blank BRA-APBCD-EB-04 at a concentration greater than the RL. Therefore, the sodium concentrations in the associated samples greater than the equipment blank concentration and less than ten times the equipment blank concentration were J+ qualified as estimated with high bias.

Sodium (0.104 mg/L) was detected in equipment blank BRA-APBCD-EB-05 at a concentration greater than the RL. Since sodium results in the associated samples were qualified due to equipment blank BRA-APBCD-EB-04 and based on professional and technical judgment, no additional qualifications were applied to the data.

Barium (0.000812 mg/L), calcium (0.115 mg/L) and magnesium (0.018 mg/L) were detected in equipment blank BRA-APBCD-EB-06 at estimated concentrations greater than the MDLs and less than the RLs. Since barium, calcium and magnesium were detected at concentrations greater than the RLs in the associated samples and based on professional and technical judgment, no qualifications were applied to the data.

Sodium (0.352 mg/L) was detected in equipment blank BRA-APBCD-EB-06 at a concentration greater than the RL. Since the sodium results in the associated samples were qualified due to equipment blank BRA-APBCD-EB-04 and based on professional and technical judgment, no additional qualifications were applied to the data.

Potassium (0.11 mg/L) and magnesium (0.0142 mg/L) were detected in equipment blank BRA-APE-EB-10 at estimated concentrations greater than the MDLs and less than the RLs. Since the magnesium concentration in equipment blank BRA-APE-EB-10 was U qualified due to field blank contamination, potassium was detected at concentrations greater than the RL in the associated samples and based on professional and technical judgment, no additional qualifications were applied to the magnesium data.

Calcium (0.361 mg/L) was detected in equipment blank BRA-APE-EB-10 at a concentration greater than the RL. Since calcium was detected at concentrations greater than the RL in the associated samples and based on professional and technical judgment, no qualifications were applied to the data.

Sodium (0.289 mg/L) was detected in equipment blank BRA-APE-EB-10 at a concentration greater than the RL. Since sodium results in the associated samples were qualified due to

equipment blank BRA-APBCD-EB-04 and based on professional and technical judgment, no additional qualifications were applied to the data.

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
BRA-BRGWA-2S	Sodium	3.09	NA	3.09	J+	3
BRA-BRGWA-5S	Sodium	3.48	NA	3.48	J+	3
BRA-BRGWA-6S	Sodium	2.11	NA	2.11	J+	3

mg/L- milligram per liter
NA-not applicable

1.9 Field Duplicate

Five duplicate samples, BRA-APBCD-FD-01, BRA-APBCD-FD-02, BRA-APBCD-FD-03, BRA-APE-FD-04 and BRA-APE-FD-05 were collected with the sample set. Acceptable precision [RPD < 20% or the difference between the concentrations < reporting limit (RL)] was demonstrated between the field duplicates and the original samples, BRA-BRGWC-50, BRA-PZ-63I, BRA-BRGWC-45, BRA-BRGWC-33S and BRA-BRGWC-35S, respectively, with the following exceptions.

634650: Selenium was not detected in sample BRA-BRGWC-50 and detected at an estimated concentration greater than the MDL and less than the RL in field duplicate BRA-APBCD-FD-01, resulting in a noncalculable RPD between the results. Since the difference between the results were within the RL of each other, no qualifications were applied to the data.

634441: Lithium was detected in field duplicate BRA-APE-FD-04 at a concentration greater than the RL and detected at an estimated concentration greater than the MDL and less than the RL in sample BRA-BRGWC-33S, resulting in a noncalculable RPD between the results. Since the difference between the results were within the RL of each other, no qualifications were applied to the data.

634615: Beryllium was not detected in field duplicate BRA-APE-FD-05 and detected at an estimated concentration greater than the MDL and less than the RL in sample BRA-BRGWC-35S, resulting in a noncalculable RPD between the results. Since the difference between the results were within the RL of each other, no qualifications were applied to the data.

Iron was detected in sample BRA-BRGWC-35S at a concentration greater than the RL and detected at an estimated concentration greater than the MDL and less than the RL in field duplicate BRA-APE-FD-05, resulting in a noncalculable RPD between the results. Since the difference between the results were within the RL of each other, no qualifications were applied to the data.

1.10 Serial Dilution

Four sample set specific serial dilutions were reported for metals using samples BRA-BRGWC-17S, BRA-BRGWC-34S, BRA-PZ-51I and BRA-BRGWC-27I. The percent difference (%D) results were within the method specified acceptance criteria.

One batch serial dilution was also reported. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

1.11 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were reported due to dilutions analyzed.

1.12 Electronic Data Deliverable (EDD) Review

The results and sample IDs in the EDDs were reviewed against the information provided by the associated level II reports at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II reports and the EDDs.

2.0 MERCURY

The samples were analyzed for mercury by US EPA Method 7470A.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable or not applicable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Time
- ✓ Method Blank
- ✓ Matrix Spike
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Field Blank
- ✓ Equipment Blank
- ✓ Field Duplicate
- ✓ Serial Dilution
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

2.1 Overall Assessment

The mercury data reported in this laboratory report are considered usable for supporting project objectives. The results are considered valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

2.2 Holding Times

The holding time for the mercury analysis of a water sample is 28 days from sample collection to analysis. The holding times were met.

2.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Four method blanks were reported (batches 2482660, 2482623, 2483665 and 2483667). Mercury was not detected in the method blanks at or above the MDL.

2.4 Matrix Spike

MSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two sample set specific MSs were reported using samples BRA-BRGWA-5S and BRA-PZ-13S. The recovery results were within the laboratory specified acceptance criteria.

Two batch MSs were also reported. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

2.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Four LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

2.6 Laboratory Duplicate

Two sample set specific laboratory duplicates were reported using sample BRA-BRGWA-5S and BRA-PZ-13S. The RPD results were within the laboratory specified acceptance criteria.

Two batch laboratory duplicates were also reported. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

2.7 Field Blank

Five field blanks, BRA-APBCD-FB-01, BRA-APBCD-FB-02, BRA-APBCD-FB-03, BRA-APE-FB-07 and BRA-APE-FB-08 were collected with the sample set. Mercury was not detected in the field blanks at or above the MDL.

2.8 Equipment Blank

Five equipment blanks, BRA-APBCD-EB-04, BRA-APBCD-EB-05, BRA-APBCD-EB-06, BRA-APE-EB-09 and BRA-APE-EB-10 were collected with the sample set. Mercury was not detected in the equipment blanks at or above the MDL.

2.9 Field Duplicate

Five duplicate samples, BRA-APBCD-FD-01, BRA-APBCD-FD-02, BRA-APBCD-FD-03, BRA-APE-FD-04 and BRA-APE-FD-05 were collected with the sample set. Acceptable precision [RPD < 20% or the difference between the concentrations < reporting limit (RL)] was demonstrated between the field duplicates and the original samples, BRA-BRGWC-50, BRA-PZ-63I, BRA-BRGWC-45, BRA-BRGWC-33S and BRA-BRGWC-35S, respectively.

2.10 Serial Dilution

Two sample set specific serial dilutions were performed using samples BRA-BRGWA-5, BRA-PZ-13S and BRA-PZ-51I. The %D results were within the method specified acceptance criteria. Two batch serial dilutions were also reported for mercury. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

2.11 Sensitivity

The samples were reported to the MDL. Elevated non-detect results were not reported.

2.12 Electronic Data Deliverable Review

The results and sample IDs in the EDDs were reviewed against the information provided by the associated level II reports at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II reports and the EDDs.

3.0 WET CHEMISTRY

The samples were analyzed for anions by US EPA method 300.0, TDS by SM 2540C, total sulfide by SM 4500-S2-D and alkalinity by SM 2320B.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable or not applicable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

✓ Overall Assessment
✓ Holding Times
✓ Method Blank
⊗ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Laboratory Duplicate
⊗ Field Blank
⊗ Equipment Blank
✓ Field Duplicate
✓ Sensitivity
✓ Electronic Data Deliverables Review

3.1 Overall Assessment

3.1.1 Completeness

The wet chemistry data reported in this laboratory report are considered usable for supporting project objectives. The results are considered valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

3.1.2 Analysis Anomaly

The laboratory noted that samples BRA-BRGWC-36S and BRA-PZ-70I were manually integrated to correctly position the baseline as set in the calibration standards for the anion analyses. No qualifications were applied to the data based on professional and technical judgment.

3.2 Holding Times

The holding time for the nitrate-n analyses of a water sample is 48 hours from sample collection to analysis. The holding time for the fluoride, chloride and sulfate analyses of a water sample is 28 days from sample collection to analysis. The holding times for the TDS and total sulfide analysis of a water sample are 7 days from sample collection to analysis. The holding time for the alkalinity analysis of a water sample is 14 days from sample collection to analysis. The holding times were met.

3.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Seven method blanks were reported for anions (batches 2482580, 2481584, 2482641, 2482649, 2481608, 2483105 and 2483150). Nine method blanks were reported for TDS (batches 2483702, 2484233, 2484234, 2482652, 2482655, 2484583, 2484591, 2484594 and 2482658). Six method blanks were reported for total sulfide (batches 2482961, 2483779, 2481696, 2483133 795173 and 806681). The wet chemistry parameters were not detected in the method blanks at or above the MDLs.

3.4 Matrix Spike/Matrix Spike Duplicate

Five sample set specific MSs were reported for anions, using samples BRA-BRGWC-17S, BRA-BRGWC-33S, BRA-BRGWC-29I and BRA-PZ-53D. The recovery results were within the laboratory specified acceptance criteria, with the following exceptions.

634441: The recoveries of chloride and nitrate as N in the MS using sample BRA-BRGWC-33S were low and outside of laboratory specified acceptance criteria. Therefore, the estimated concentration for nitrate as N in sample BRA-BRGWC-33S was J qualified as estimated. Since the concentration for chloride in sample BRA-BRGWC-33S was greater than four times the spike amount, no qualifications were applied to the chloride data.

634615: The recovery of chloride in the MS using sample BRA-BRGWC-17S was high and outside of laboratory specified acceptance criteria. Therefore, the concentration of chloride in sample BRA-BRGWC-17S was J+ qualified as estimated with high bias.

Seven sample set specific MS/MSDs were reported for sulfide, using samples BRA-BRGWA-5I, BRA-BRGWA-2I, BRA-BRGWC-35S, BRA-BRGWC-33S, BRA-BRGWA-2S, BRA-BRGWC-50 and BRA-BRGWC-45. The recovery results were within the laboratory specified acceptance criteria, with the following exceptions.

680-242425-1: The sulfide recoveries in the MS/MSD pair using sample BRA-BRGWA-2I were low and outside of laboratory specified acceptance criteria. Therefore, the nondetect result for sulfide for sample BRA-BRGWA-2I was UJ qualified as estimated below the MDL.

634615: The sulfide recoveries in the MS/MSD pair using sample BRA-BRGWC-35S were low and outside of laboratory specified acceptance criteria. Therefore, the nondetect result for sulfide for sample BRA-BRGWC-35S was UJ qualified as estimated below the MDL.

634650: The sulfide recoveries in the MS/MSD pair using sample BRA-BRGWC-50 were low and outside of laboratory specified acceptance criteria. Therefore, the nondetect result for sulfide for sample BRA-BRGWC-50 was UJ qualified as estimated below the MDL.

634768: The sulfide recoveries in the MS/MSD pair using sample BRA-BRGWC-45 were low and outside of laboratory specified acceptance criteria. Therefore, the nondetect result for sulfide for sample BRA-BRGWC-45 was UJ qualified as estimated below the MDL.

Batch MSs and MS/MSD pairs were also reported for anions, alkalinity and sulfide. Since the batch QC results do not affect the samples in this data set, qualifications were not applied to the data.

Sample ID	Compound	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
BRA-BRGWC-17S	Chloride	5.18	NA	5.18	J+	4
BRA-BRGWC-33S	Nitrate	0.0707	J	0.0707	J-	4
BRA-BRGWC-35S	Total Sulfide	0.033	U	0.033	UJ	4
BRA-BRGWC-50	Total Sulfide	0.033	U	0.033	UJ	4
BRA-BRGWC-45	Total Sulfide	0.033	U	0.033	UJ	4
BRA-BRGWA-2I	Total Sulfide	0.81	U	0.81	UJ	4

mg/L- milligram per liter
U-not detected at or above the MDL
NA-not applicable
J-the result is less than RL but greater than the MDL and the concentration is an approximate value

3.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). An LCS or LCS/LCSD pair was reported for each analytical batch per analysis. The recovery and RPD results were within the laboratory specified acceptance criteria.

3.6 Laboratory Duplicate

Four sample set specific laboratory duplicates were reported for anions, using samples BRA-BRGWC-17S, BRA-BRGWC-33S, BRA-BRGWC-29I and BRA-PZ-53D. The RPD results were within the laboratory specified acceptance criteria.

One sample set specific laboratory duplicate was reported for TDS, using sample BRA-PZ-53D. The RPD result was within the laboratory specified acceptance criteria.

One sample set specific laboratory duplicate was reported for sulfide, using sample BRA-BRGWA-2S. The RPD result was within the laboratory specified acceptance criteria.

Batch laboratory duplicates were reported for TDS, alkalinity and anions. Since the batch QC results do not affect the samples in this data set, qualifications were not applied to the data.

3.7 Field Blank

Five field blanks, BRA-APBCD-FB-01, BRA-APBCD-FB-02, BRA-APBCD-FB-03, BRA-APE-FB-07 and BRA-APE-FB-08 were collected with the sample set. Wet chemistry parameters were not detected in the field blanks at or above the MDLs, with the following exceptions.

Fluoride (0.388, 0.516, 0.233, 0.0478 and 0.34 mg/L) was detected in field blanks BRA-APBCD-FB-01, BRA-APBCD-FB-02, BRA-APBCD-FB-03, BRA-APE-FB-07 and BRA-APE-FB-08, respectively. Therefore, for the associated samples the estimated fluoride concentrations were U qualified as not detected at the RL, the fluoride concentrations greater than the RL and less than the field blank concentrations were U qualified as not detected at the reported concentration and the fluoride concentrations of samples BRA-PZ-53D, BRA-BRGWC-17S, BRA-BRGWC-38S, BRA-PZ-52D, BRA-APE-FD-04, BRA-BRGWC-33S, BRA-APBCD-EB-06, BRA-BRGWC-25I, BRA-BRGWC-27I, BRA-BRGWC-47, BRA-PZ-51D, BRA-APBCD-FD-01, BRA-PZ-58I and BRA-PZ-60I were J+ qualified as estimated with high bias.

Chloride (0.206 mg/L) was detected in field blank BRA-APE-FB-07. Therefore, the concentration of chloride in sample BRA-BRGWA-2I was J+ qualified as estimated with high bias.

Nitrate (0.043 mg/L) was detected at an estimated concentration greater than the MDL and less than the RL in field blank BRA-APE-FB-07. Therefore, the concentrations of nitrate in samples BRA-BRGWA-2S, BRA-BRGWA-5I, BRA-BRGWA-5S and BRA-BRGWC-37S were J+ qualified as estimated with high bias and the estimated concentrations in the associated samples were U qualified as not detected at or above the RL.

Sample ID	Compound	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
BRA-BRGWA-2I	Chloride	1.9	NA	1.9	J+	3
BRA-BRGWA-6S	Fluoride	0.0787	J	0.100	U	3
BRA-BRGWA-2S	Nitrate	0.218	NA	0.218	J+	3
BRA-BRGWA-5I	Nitrate	0.266	NA	0.266	J+	3
BRA-BRGWA-5S	Nitrate	0.203	NA	0.203	J+	3
BRA-APE-FD-04	Nitrate	0.063	J	0.100	U	3
BRA-BRGWC-33S	Nitrate	0.0707	J	0.100	U	3
BRA-BRGWC-34S	Nitrate	0.0431	J	0.100	U	3
BRA-BRGWC-37S	Nitrate	0.294	NA	0.294	J+	3
BRA-PZ-13S	Nitrate	0.0695	J	0.100	U	3
BRA-APBCD-EB-05	Fluoride	0.0798	J	0.100	U	3
BRA-APBCD-EB-06	Fluoride	0.435	NA	0.435	J+	3
BRA-APBCD-FD-03	Fluoride	0.198	NA	0.198	J+	3
BRA-BRGWC-25I	Fluoride	0.250	NA	0.250	J+	3
BRA-BRGWC-27I	Fluoride	0.302	NA	0.302	J+	3
BRA-BRGWC-29I	Fluoride	0.0849	J	0.100	U	3

Sample ID	Compound	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
BRA-BRGWC-45	Fluoride	0.185	NA	0.185	J+	3
BRA-BRGWC-47	Fluoride	0.243	NA	0.243	J+	3
BRA-BRGWC-52I	Fluoride	0.188	J	0.200	U	3
BRA-PZ-51D	Fluoride	0.395	NA	0.395	J+	3
BRA-PZ-74I	Fluoride	0.157	NA	0.157	J+	3
BRA-PZ-75I	Fluoride	0.14	NA	0.140	J+	3
BRA-BRGWA-23S	Fluoride	0.114	NA	0.114	J+	3
BRA-BRGWC-30I	Fluoride	0.116	NA	0.116	J+	3
BRA-BRGWC-32S	Fluoride	0.0477	J	0.100	U	3
BRA-PZ-61I	Fluoride	0.188	NA	0.188	J+	3
BRA-APBCD-EB-04	Fluoride	0.503	NA	0.503	J+	3
BRA-APBCD-FD-01	Fluoride	0.583	NA	0.583	J+	3
BRA-APBCD-FD-02	Fluoride	0.255	NA	0.255	J+	3
BRA-BRGWC-50	Fluoride	0.499	NA	0.499	J+	3
BRA-PZ-44	Fluoride	0.195	NA	0.195	J+	3
BRA-PZ-50D	Fluoride	0.193	NA	0.193	J+	3
BRA-PZ-51I	Fluoride	0.0744	J	0.100	U	3
BRA-PZ-58I	Fluoride	1.10	NA	1.10	J+	3
BRA-PZ-60I	Fluoride	1.32	NA	1.32	J+	3
BRA-PZ-63I	Fluoride	0.252	NA	0.252	J+	3
BRA-PZ-64I	Fluoride	0.135	NA	0.135	J+	3
BRA-PZ-68D	Fluoride	0.218	NA	0.218	J+	3
BRA-APE-EB-09	Fluoride	0.0531	J	0.100	U	3
BRA-APE-EB-10	Fluoride	0.302	NA	0.302	U	3
BRA-APE-FD-05	Fluoride	0.341	NA	0.341	U	3
BRA-BRGWC-17S	Fluoride	0.484	NA	0.484	J+	3
BRA-BRGWC-35S	Fluoride	0.347	NA	0.347	U	3
BRA-BRGWC-36S	Fluoride	0.301	NA	0.301	U	3
BRA-BRGWC-38S	Fluoride	0.748	NA	0.748	J+	3
BRA-PZ-52D	Fluoride	1.94	NA	1.94	J+	3
BRA-PZ-70I	Fluoride	0.229	NA	0.229	U	3
BRA-APE-FD-04	Fluoride	0.119	NA	0.119	J+	3
BRA-BRGWC-33S	Fluoride	0.123	NA	0.123	J+	3
BRA-BRGWC-34S	Fluoride	0.0816	J	0.200	U	3
BRA-BRGWC-37S	Fluoride	0.0445	J	0.100	U	3
BRA-PZ-53D	Fluoride	0.334	NA	0.334	J+	3

mg/L- milligram per liter
J-the result is less than RL but greater than the MDL and the concentration is an approximate value
NA-not applicable

3.8 Equipment Blank

Five equipment blanks, BRA-APBCD-EB-04, BRA-APBCD-EB-05, BRA-APBCD-EB-06, BRA-APE-EB-09 and BRA-APE-EB-10 were collected with the sample set. Wet chemistry

parameters were not detected in the equipment blanks at or above the MDLs, with the following exceptions.

Sulfate (0.329 mg/L) was detected at an estimated concentration greater than the MDL and less than the RL in equipment blank BRA-APE-EB-10. Therefore, the estimated sulfate concentration in the associated sample was U qualified as not detected at the RL and the sulfate concentrations in samples BRA-BRGWA-2S, BRA-BRGWA-5S and BRA-BRGWA-6S, were J+ qualified as estimated with high bias.

Chloride (0.581 mg/L) and nitrate (0.470 mg/L) were detected in BRA-APE-EB-10 at concentrations greater than the RLs. Therefore, for the associated samples the chloride and nitrate concentrations were qualified as following. The estimated concentrations were U qualified as not detected at the RLs. The concentrations greater than the RLs and less than the equipment blank concentrations were U qualified as not detected at the reported concentration and the concentrations greater than the equipment blank concentrations and less than ten times the equipment blank concentrations were J+ qualified as estimated with high bias.

Fluoride (0.0531 mg/L, 0.503 mg/L, 0.0798 mg/L and 0.302 mg/L) was detected at estimated concentrations greater than the MDL and less than the RL in BRA-APE-EB-09, BRA-APBCD-EB-04, BRA-APBCD-EB-05 and BRA-APBCD-EB-10, respectively. Since the fluoride concentrations in these equipment blanks were U qualified due to field blank contamination and based on professional and technical judgment, no additional qualifications were applied to the data.

Chloride (0.282 mg/L) and fluoride (0.435 mg/L) were detected in BRA-APBCD-EB-06. Since the chloride concentrations in the associated samples were qualified due to equipment blank BRA-APE-EB-10 and the fluoride concentrations in the associated samples were qualified due to field blank contamination and based on professional and technical judgment, no additional qualifications were applied to the data.

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
BRA-BRGWC-17S	Nitrate	0.094	J	0.100	U	3
BRA-BRGWC-17S	Chloride	5.18	NA	5.18	J+	3
BRA-PZ-70I	Nitrate	0.175	NA	0.175	U	3
BRA-PZ-70I	Chloride	5.75	NA	5.75	J+	3
BRA-BRGWC-37S	Chloride	1.89	NA	1.89	J+	3
BRA-BRGWC-37S	Sulfate	0.355	J	0.400	U	3
BRA-PZ-13S	Chloride	2.73	NA	2.73	J+	3
BRA-APBCD-FD-03	Nitrate	0.0476	J	0.100	U	3
BRA-BRGWC-27I	Nitrate	0.0657	J	0.100	U	3
BRA-BRGWC-27I	Chloride	4.81	NA	4.81	J+	3
BRA-BRGWC-29I	Nitrate	0.297	NA	0.297	U	3

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
BRA-BRGWC-47	Nitrate	0.117	NA	0.117	U	3
BRA-BRGWC-47	Chloride	4.67	NA	4.67	J+	3
BRA-PZ-74I	Nitrate	0.0475	J	0.100	U	3
BRA-PZ-75I	Nitrate	0.794	NA	0.794	J+	3
BRA-BRGWA-23S	Chloride	2.41	NA	2.41	J+	3
BRA-BRGWA-23S	Nitrate	0.212	NA	0.212	U	3
BRA-BRGWC-30I	Chloride	3.35	NA	3.35	J+	3
BRA-BRGWC-32S	Chloride	4.30	NA	4.30	J+	3
BRA-BRGWC-32S	Nitrate	0.184	NA	0.184	U	3
BRA-BRGWA-2S	Sulfate	0.526	NA	0.526	J+	3
BRA-BRGWA-5S	Sulfate	0.540	NA	0.540	J+	3
BRA-BRGWA-6S	Sulfate	0.467	NA	0.467	J+	3

mg/L- milligram per liter
J-the result is less than RL but greater than the MDL and the concentration is an approximate value
NA-not applicable

3.9 Field Duplicate

Five duplicate samples, BRA-APBCD-FD-01, BRA-APBCD-FD-02, BRA-APBCD-FD-03, BRA-APE-FD-04 and BRA-APE-FD-05 were collected with the sample set. Acceptable precision [RPD < 20% or the difference between the concentrations < reporting limit (RL)] was demonstrated between the field duplicates and the original samples, BRA-BRGWC-50, BRA-PZ-63I, BRA-BRGWC-45, BRA-BRGWC-33S and BRA-BRGWC-35S, respectively, with the following exception.

634768: Nitrate was not detected in sample BRA-BRGWC-45 and detected at an estimated concentration greater than the MDL and less than the RL in field duplicate BRA-APBCD-FD-03, resulting in a noncalculable RPD between the results. Since the nitrate concentration for field duplicate BRA-APBCD-FD-03 was U qualified due to equipment blank contamination and based on professional and technical judgement, no additional qualifications were applied to the data.

3.10 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were reported due to dilutions analyzed.

3.11 Electronic Data Deliverable Review

The results and sample IDs in the EDDs were reviewed against the information provided by the associated level II reports at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II reports and the EDDs.

ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS
AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

U The analyte was analyzed for, but was not detected at or above the reported sample quantitation limit. Upon application of the U qualifier to a reported result, the definition changes to "not detected at or above the reported result".

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

J+ The analyte was positively identified; however, the associated numerical value is likely to be higher than the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.

J- The analyte was positively identified; however, the associated numerical value is likely to be lower than the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.

UJ The analyte was not detected at or above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec's Data Validation Team

Valid Value	Description
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip, equipment, etc.)
4	Matrix spike/matrix spike duplicate recovery or RPD outside limits
5	LCS or RPD recovery outside limits (LCS/LCSD)
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference exceeded
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other
14	Lab flag removed or modified: no validation qualification required

LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample duplicate
RPD - Relative percent difference

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Memorandum

Date:	24 January 2024
To:	Courtney Collins
From:	Ashley Wilson
CC:	K. Henderson
Subject:	**Stage 2A Data Validation - Level II Data Deliverables – GEL Laboratories, LLC Work Orders 634448, 634643 and 634649**

SITE: Plant Branch CCR Groundwater Compliance Transect and Porewater Assessment

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of four groundwater samples collected 22-23 August 2023, as part of the Plant Branch on-site sampling event.

The samples were analyzed at GEL Laboratories LLC, Charleston, SC, for the following analytical tests:

- Total and Dissolved Metals by United States (US) Environmental Protection Agency (EPA) Methods 3005A/6020B
- Anions (Nitrate-Nitrogen (N), Chloride, Fluoride and Sulfate) by US EPA Method 300.0
- Total Dissolved Solids (TDS) by Standard Method (SM) 2540C
- Total Sulfide by SM 4500-S2-D
- Alkalinity by SM 2320B

EXECUTIVE SUMMARY

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below and based on the information provided, the data are usable for supporting project objectives. If

The data were reviewed based on the following documents, the pertinent methods referenced by the data package and professional and technical judgment:

- US EPA Region IV Data Validation Standard Operating Procedures (US EPA Region IV, September 2011); and

- USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review, November 2020 (EPA 542-R-20-006).

The following samples were analyzed and reported in the laboratory reports:

Laboratory IDs	Client IDs
634448001	BRA-PZ-79; 08/22/2023
634643001	BRA-PZ-79; 08/23/2023

Laboratory IDs	Client IDs
634649001	BRA-PZ-76I
634649002	BRA-PZ-77I

The samples were received at 4.0, 3.0, 2.0 and 1.0 degrees Celsius (ºC), both within and outside of the EPA Region 4 criteria of 4ºC $\pm$ 2ºC. Since the samples were received between 0-6ºC and based on professional judgment, no qualifications were applied to the data. No sample preservation issues were noted by the laboratory.

634448: The relinquished by time and the received by time for the second sample transfer were inconsistent on the COC. The relinquishing time appears to not be documented in military time.

1.0 METALS

The samples were analyzed for metals by US EPA methods 3005A/6020B.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable or not applicable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

✓ Overall Assessment
✓ Holding Time
✓ Method Blank
✓ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Laboratory Duplicate
✓ Field Blank
✓ Equipment Blank
✓ Field Duplicate
✓ Serial Dilution
✓ Sensitivity
✓ Electronic Data Deliverables Review

1.1 Overall Assessment

1.1.1 Completeness

The metals data reported in this laboratory report are considered usable for supporting project objectives. The results are considered valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

1.1.2 Analysis Anomaly

The laboratory noted that the contract required detection limit (CRDL) for calcium did not meet the laboratory specified acceptance criteria. Since the calcium results in the associated samples were significantly greater than the CRDL, based on professional and technical judgement, no qualifications were applied to the data.

The laboratory also noted that for the Inductively Coupled Plasma – Mass Spectrometry analysis, the Interference Check Sample (ICSA) solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

1.2 Holding Time

The holding time for the metals analysis of a water sample is 180 days from sample collection to analysis. The holding times were met.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two method blanks were reported (batches 2482702 and 2482704). Metals were not detected in the method blanks at or above the method detection limits (MDLs).

1.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSDs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples).

Three batch MS/MSDs were also reported. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

1.6 Laboratory Duplicate

Laboratory duplicates were not reported for metals.

1.7 Field Blank

Field blanks were not reported with the sample set.

1.8 Equipment Blank

Equipment blanks were not reported with the sample set.

1.9 Field Duplicate

Field duplicates were not reported with the sample set.

1.10 Serial Dilution

Three batch serial dilutions were reported. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

1.11 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were reported due to dilutions analyzed.

1.12 Electronic Data Deliverable (EDD) Review

The results and sample IDs in the EDDs were reviewed against the information provided by the associated level II reports at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II reports and the EDDs.

2.0 WET CHEMISTRY

The samples were analyzed for anions by US EPA method 300.0, TDS by SM 2540C, total sulfide by SM 4500-S2-D and alkalinity by SM 2320B.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable or not applicable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

2.1 Overall Assessment

2.1.1 Completeness

The wet chemistry data reported in this laboratory report are considered usable for supporting project objectives. The results are considered valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

2.1.2 Analysis Anomaly

The laboratory noted that sample BRA-PZ-76I was manually integrated to correctly position the baseline as set in the calibration standards for the anion analysis.

2.2 Holding Times

The holding time for the nitrate-n analyses of a water sample is 48 hours from sample collection to analysis. The holding time for the fluoride, chloride, sulfate analyses of a water sample is 28 days from sample collection to analysis. The holding times for the TDS and total sulfide analysis of a water sample are 7 days from sample collection to analysis. The holding time for the alkalinity analysis of a water sample is 14 days from sample collection to analysis. The holding times were met.

2.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two method blanks were reported for anions (batches 2481584 and 2482641). Nine method blanks were reported for TDS (batch 2482658 and 2484234). Four method blanks were reported for total sulfide (batches 2482961, 2483779, 2481696 and 2483133). The wet chemistry parameters were not detected in the method blanks at or above the MDLs.

2.4 Matrix Spike

Two sample set specific MSs were reported for total alkalinity, using samples BRA-PZ-79 collected August 22, 2023, and collected August 23, 2023. The recovery result was within the laboratory specified acceptance criteria.

One sample set specific MS was reported for anions, using sample BRA-PZ-79 collected August 23, 2023. The recovery result was within the laboratory specified acceptance criteria.

Batch MSs were also reported for anions, alkalinity and sulfide. Since the batch QC results do not affect the samples in this data set, qualifications were not applied to the data.

2.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). An LCS was reported for each analytical batch per analysis. The recovery results were within the laboratory specified acceptance criteria.

2.6 Laboratory Duplicate

One sample set specific laboratory duplicate was reported for total alkalinity, using sample BRA-PZ-79. The relative percent difference (RPD) result was within the laboratory specified acceptance criteria.

One sample set specific laboratory duplicate was reported for anions, using sample BRA-PZ-79 collected August 23, 2023. The RPD result was within the laboratory specified acceptance criteria.

Batch laboratory duplicates were reported for TDS, alkalinity and anions. Since the batch QC results do not affect the samples in this data set, qualifications were not applied to the data.

2.7 Field Duplicate

Field duplicates were not reported with the sample set.

2.8 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were reported due to dilutions analyzed.

2.9 Electronic Data Deliverable Review

The results and sample IDs in the EDDs were reviewed against the information provided by the associated level II reports at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II reports and the EDDs.

ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS
AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

U The analyte was analyzed for, but was not detected above the reported sample quantitation limit. Upon application of the U qualifier to a reported result, the definition changes to "not detected at or above the reported result".

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

J+ The analyte was positively identified; however, the associated numerical value is likely to be higher than the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.

J- The analyte was positively identified; however, the associated numerical value is likely to be lower than the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec's Data Validation Team

Valid Value	Description
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip, equipment, etc.)
4	Matrix spike/matrix spike duplicate recovery or RPD outside limits
5	LCS or RPD recovery outside limits (LCS/LCSD)
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference exceeded
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other
14	Lab flag removed or modified: no validation qualification required

LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample duplicate
RPD - Relative percent difference

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Memorandum

Date:	13 February 2024
To:	Lauren Fitzgerald
From:	Kristoffer Henderson
CC:	Matthew Richardson
Subject:	**Stage 2A Data Validation - Level II Data Deliverables – GEL Laboratories, LLC Work Orders (WOs) 634443, 634648, 634450, 634781, 634446, 634652 and 634789**

SITE: Plant Branch CCR Groundwater Compliance

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of thirty-eight groundwater samples, five equipment blanks, five field blanks and five field duplicate samples, collected between 22-24 August 2023, as part of the Plant Branch CCR Groundwater Compliance sampling event.

The samples were analyzed at GEL Laboratories LLC, Charleston, SC, for the following analytical tests:

- Radium-226 by Modified United States (US) Environmental Protection Agency (EPA) Method 903.1
- Radium-228 by Modified US EPA Methods 904.0/9320 Modified
- Total Radium by Calculation

EXECUTIVE SUMMARY

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below and based on the information provided, the data as qualified are usable for supporting project objectives. The qualified data should be used within the limitations of the qualifications. If there are results with two or more different qualifications due to multiple QC failures, the final qualification is reconciled in the electronic data deliverable (EDD) with qualifications.

The data were reviewed based on the pertinent methods referenced in the laboratory reports, professional and technical judgment, and the following documents:

- American Nuclear Society Verification and Validation of Radiological Data for use in Waste Management and Environmental Remediation (ANSI/ANS-41.5-2012), February 15, 2012.

The following samples were analyzed and reported in the laboratory reports:

Laboratory ID	Client ID
634443001	BRA-BRGWC-33S
634443002	BRA-APE-FD-04
634443003	BRA-BRGWC-34S
634443004	BRA-APE-FB-07
634443005	BRA-BRGWC-37S
634443006	BRA-PZ-13S
634446002	BRA-BRGWA-23S
634446003	BRA-BRGWC-30I
634446004	BRA-BRGWC-32S
634446005	BRA-PZ-61I
634446006	BRA-APBCD-FB-01
634450001	BRA-BRGWA-2S
634450002	BRA-BRGWA-5S
634450003	BRA-BRGWA-5I
634450004	BRA-BRGWA-6S
634450005	BRA-BRGWA-2I
634648001	BRA-BRGWC-17S
634648002	BRA-BRGWC-35S
634648003	BRA-BRGWC-36S
634648004	BRA-BRGWC-38S
634648005	BRA-PZ-70I
634648006	BRA-APE-FD-05
634648007	BRA-APE-FB-08
634648008	BRA-APE-EB-09
634648009	BRA-APE-EB-10
634652001	BRA-PZ-51I
634652002	BRA-PZ-58I

Laboratory ID	Client ID
634652003	BRA-PZ-60I
634652004	BRA-PZ-63I
634652005	BRA-PZ-64I
634652006	BRA-PZ-68D
634652007	BRA-APBCD-FB-02
634652008	BRA-APBCD-FD-01
634652009	BRA-APBCD-FD-02
634652010	BRA-BRGWC-50
634652011	BRA-APBCD-EB-04
634652012	BRA-PZ-44
634652013	BRA-PZ-50D
634781001	BRA-APBCD-FD-03
634781002	BRA-APBCD-EB-05
634781003	BRA-BRGWC-27I
634781004	BRA-BRGWC-45
634781005	BRA-PZ-75I
634781006	BRA-PZ-74I
634781007	BRA-BRGWC-29I
634781008	BRA-PZ-51D
634781009	BRA-APBCD-FB-03
634781010	BRA-APBCD-EB-06
634781011	BRA-BRGWC-52I
634781012	BRA-BRGWC-47
634781013	BRA-BRGWC-25I
634789001	BRA-PZ-53D
634789002	BRA-PZ-52D

No sample preservation issues were noted by the laboratory.

Sample collection times were not listed on the chain of custody (COC) for field duplicate samples, BRA-APE-FD-04, BRA-APE-FD-05, BRA-APBCD-FD-01, BRA-APBCD-FD-02 and BRA-APBCD-FD-03. Collection times were not documented in the laboratory reports.

1.0 RADIOCHEMISTRY

The samples were analyzed for radium-226 by modified US EPA method 903.1, modified radium-228 by US EPA methods 904.0/9320 modified and total radium by calculation.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

⊗ Overall Assessment
✓ Holding Times
⊗ Method Blank
✓ Matrix Spike
✓ Laboratory Control Sample
✓ Laboratory Duplicate
✓ Tracers and Carriers
⊗ Field Blank
⊗ Equipment Blank
✓ Field Duplicate
✓ Sensitivity
✓ Electronic Data Deliverables Review

1.1 Overall Assessment

1.1.1 Completeness

The radiochemistry data reported in this data set are considered usable for supporting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

1.1.2 Analysis Anomaly

Total radium was reported at the minimum detectable concentration (MDC) for radium-228 for the samples and total radium-226 was detected in the following samples greater than the MDC. In addition, since the total radium concentrations were less than the MDC for radium-228 the laboratory U flagged these concentrations as less than the MDC. Since total radium is calculated from radium-226 and radium-228 and radium-226 was greater than the MDC, and based on professional and technical judgment, the total radium concentrations for these samples were reported with no qualifications.

Sample
BRA-APE-FB-07
BRA-BRGWC-34S
BRA-BRGWC-37S
BRA-PZ-13S-WG

Sample
BRA-APBCD-EB-04
BRA-APBCD-FD-01
BRA-APBCD-FD-02
BRA-APBCD-FB-01

Sample
BRA-PZ-61I
BRA-APBCD-EB-06
BRA-BRGWC-25I
BRA-BRGWC-45

Sample
BRA-PZ-74I
BRA-BRGWA-2I

Sample
BRA-BRGWA-2S
BRA-PZ-52D

Sample
BRA-APE-FB-08

Total radium was reported at the MDC for radium-228 for the samples and total radium-226 and total radium-228 were not detected in sample BRA-APE-FB-08 greater than the MDC. In addition, since the total radium concentration was greater than the MDC for radium-228 the sample result was not U flagged as less than the MDC. Since total radium is calculated from radium-226 and radium-228 and radium-226 and radium-228 were less than the MDC, and based on professional and technical judgment, the total radium concentration for sample BRA-APE-FB-08 was U qualified as less than the MDC.

Sample	Analyte	Laboratory Result (pCi/L)	Laboratory Flag	Validation Result (pCi/L)	Validation Qualifier (pCi/L)	Reason Code
BRA-APE-FB-07	Total Radium	0.546	U	0.546	NA	13
BRA-BRGWC-34S	Total Radium	1.06	U	1.06	NA	13
BRA-BRGWC-37S	Total Radium	0.578	U	0.578	NA	13
BRA-PZ-13S-WG	Total Radium	0.823	U	0.823	NA	13
BRA-APBCD-EB-04	Total Radium	1.22	U	1.22	NA	13
BRA-APBCD-FD-01	Total Radium	2.39	U	2.39	NA	13
BRA-APBCD-FD-02	Total Radium	1.14	U	1.14	NA	13
BRA-APBCD-FB-01	Total Radium	0.595	U	0.595	NA	13
BRA-PZ-61I	Total Radium	0.868	U	0.868	NA	13
BRA-APBCD-EB-06	Total Radium	0.924	U	0.924	NA	13
BRA-BRGWC-25I	Total Radium	1.21	U	1.21	NA	13
BRA-BRGWC-45	Total Radium	0.607	U	0.607	NA	13
BRA-PZ-74I	Total Radium	0.811	U	0.811	NA	13
BRA-BRGWA-2I	Total Radium	0.857	U	0.857	NA	13
BRA-BRGWA-2S	Total Radium	0.592	U	0.592	NA	13
BRA-PZ-52D	Total Radium	1.14	U	1.14	NA	13
BRA-APE-FB-08	Total Radium	2.50	NA	2.50	U	13

pCi/L-picocuries per liter
U-not detected at or above the MDC
NA-not applicable
* Validation qualifiers are defined in Attachment 1 at the end of this report
**Reason codes are defined in Attachment 2 at the end of this report

1.2 Holding Times

The holding times for the radium-226 and radium-228 analyses of a water sample are 180 days from sample collection to analysis. The holding times were met for the sample analyses.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three method blanks were reported for the radium-226 data (batches 2483512, 2482017 and 2485948). Four method blanks were reported for the radium-228 data (batches 2483519, 2483035, 2494433 and 2485947). Radium-226 and radium-228 were not detected in the method blanks at or above the MDCs, with the following exceptions.

634789 and 634781: Radium-228 (1.94 pCi/L) was detected in the method blank in batch 2483519 at a concentration greater than the MDC. Since the mean differences were less than 2 between the blank and samples BRA-PZ-53D, BRA-APBCD-FB-03 and BRA-PZ-75I and the sample concentrations were less than ten times the blank concentration, the radium-228 concentrations for samples BRA-PZ-53D, BRA-APBCD-FB-03 and BRA-PZ-75I and combined radium concentrations for samples BRA-APBCD-FB-03 and BRA-PZ-53D were UJ qualified as estimated less than the reported concentrations and the combined radium concentrations in samples BRA-PZ-75I were J qualified as estimated. Since the mean differences were greater than 2 and less than 3 between the blank and samples BRA-APBCD-FD-03 and BRA-BRGWC-52I and the sample concentrations were less than ten times the blank concentration, the radium-228 and combined radium concentrations for samples BRA-APBCD-FD-03 and BRA-BRGWC-52I were J qualified as estimated.

634446, 634450 and 634443: Radium-228 (1.38 pCi/L) was detected in the method blank in batch 2494433 at a concentration greater than the MDC. Since radium-228 was not detected at concentrations greater than the MDC in the associated samples, no qualifications were applied to the data.

The blank qualifications are listed in Attachment 3 at the end of this report.

1.4 Matrix Spike (MS)

Four sample set specific MSs were reported for radium-226 using samples BRA-BRGWC-27I, BRA-PZ-51I, BRA-BRGWC-33S and BRA-BRGWC-17S. The recovery results were within the laboratory specified acceptance criteria.

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three LCSs were reported for radium-226 and four LCSs were reported for radium-228. The recovery results were within the laboratory specified acceptance criteria.

1.6 Laboratory Duplicate

Four sample set specific laboratory duplicates were reported for radium-226 using samples BRA-BRGWC-27I, BRA-PZ-51I, BRA-BRGWC-33S and BRA-BRGWC-17S and four sample set specific laboratory duplicates were reported for radium-228 using samples BRA-BRGWC-27I, BRA-PZ-51I, BRA-BRGWC-33S and BRA-BRGWC-17S. The replicate error ratio (RER) results were within the laboratory specified acceptance criteria.

1.7 Tracers and Carriers

Tracers were reported for radium-228 analyses. The recovery results were within the laboratory specified acceptance criteria.

1.8 Field Blank

Five field blanks, BRA-APBCD-FB-01, BRA-APBCD-FB-02, BRA-APBCD-FB-03, BRA-APE-FB-07 and BRA-APE-FB-08 were collected with the sample set. Radium-226 and Radium-228 were not detected in the field blanks at or above the MDCs, with the following exceptions.

Radium-226 (0.454 pCi/L) was detected in the BRA-APBCD-FB-01 at a concentration greater than the MDC. Radium-226 (0.377 pCi/L) was detected in the BRA-APE-FB-07 at a concentration greater than the MDC.

For radium-226 concentrations less than ten times the field blank concentration with a mean difference less than two, the radium concentration was UJ qualified as estimated less than the reported concentration. For radium-226 concentrations less than ten times the field blank concentration with a mean difference greater than 2 and less than 3, the radium-226 concentration was J qualified as estimated.

For samples with a UJ qualified radium-226 concentration and a radium-228 concentration less than the MDC, the total radium concentration was UJ qualified as estimated less than the reported concentration. For samples with a UJ qualified radium-226 concentration and a radium-228 concentration greater than the MDC, the total radium concentration was J qualified as estimated. For samples with a J qualified radium-226 concentration, the total radium concentration was J qualified as estimated.

Radium-228 (1.61 pCi/L) was detected in the BRA-APE-FB-03 at a concentration greater than the MDC. Since the radium-228 concentration in BRA-APE-FB-03 was UJ qualified as not detected at the reported concentration due to method blank contamination and based on professional and technical judgment, no additional qualifications were applied to the data.

The blank qualifications are listed in Attachment 3 at the end of this report.

1.9 Equipment Blank

Five equipment blanks, BRA-APBCD-EB-04, BRA-APBCD-EB-05 and BRA-APBCD-EB-06 BRA-APE-EB-09 and BRA-APE-EB-10 were collected with the sample set. Radium-226 and radium-228 were not detected in the equipment blanks at or above the MDCs, with the following exceptions.

Radium-226 (0.816 pCi/L) was detected in the BRA-APE-EB-04 at a concentration greater than the MDC. Radium-226 (0.639 pCi/L) was detected in the BRA-APE-EB-06 at a concentration greater than the MDC. Radium-226 (0.662 pCi/L) was detected in the BRA-APE-EB-09 at a concentration greater than the MDC. The associated samples were qualified as following:

For radium-226 concentrations less than ten times the equipment blank concentration with a mean difference less than 2, the radium concentration was UJ qualified as estimated less than the reported concentration. For radium-226 concentrations less than ten times the equipment blank concentration with a mean difference greater than 2 and less than 3, the radium-226 concentration was J qualified as estimated.

For samples with a UJ qualified radium-226 concentration and a radium-228 concentration less than the MDC, the total radium concentration was UJ qualified as estimated less than the reported concentration. For samples with a UJ qualified radium-226 concentration and a radium-228 concentration greater than the MDC, the total radium concentration was J qualified as estimated. For samples with a J qualified radium-226 concentration, the total radium concentration was J qualified as estimated.

The blank qualifications are listed in Attachment 3 at the end of this report.

1.10 Field Duplicate

Five field duplicate samples, BRA-APBCD-FD-01, BRA-APBCD-FD-02, BRA-APBCD-FD-03, BRA-APE-FD-04 and BRA-APE-FD-05 were collected with the sample set. Acceptable precision [RER (1σ) < 3] was demonstrated between the field duplicates and the original samples, BRA-BRGWC-50, BRA-PZ-63I, BRA-BRGWC-45, BRA-BRGWC-33S and BRA-BRGWC-35S, respectively.

1.11 Sensitivity

The samples were reported to the MDCs. Elevated non-detect results were not reported.

1.12 Electronic Data Deliverable Review

The results and sample IDs in the EDDs were reviewed against the information provided by the associated level II reports at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II reports and the EDDs.

**DATA VALIDATION QUALIFIER DEFINITIONS
AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team**

DATA QUALIFIER DEFINITIONS

U The analyte was analyzed for, but was not detected above the reported sample quantitation limit. Upon application of the U qualifier to a reported result, the definition changes to "not detected at or above the reported result."

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

J+ The analyte was positively identified; however, the associated numerical value is likely to be higher than the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.

J- The analyte was positively identified; however, the associated numerical value is likely to be lower than the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

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ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec's Data Validation Team

Valid Value	Description
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip, equipment, etc.)
4	Matrix spike/matrix spike duplicate recovery or RPD outside limits
5	LCS or RPD recovery outside limits (LCS/LCSD)
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference exceeded
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other
14	Lab flag removed or modified: no validation qualification required

LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample duplicate
RPD - Relative percent difference

ATTACHMENT 3
BLANK QUALIFICATIONS

Sample	Analyte	Laboratory Result (pCi/L)	Laboratory Flag	Validation Result (pCi/L)	Validation Qualifier	Reason Code
BRA-APE-FD-04	Radium-226	0.466	NA	0.466	UJ	3
BRA-APE-FD-04	Total Radium	1.55	NA	1.55	UJ	3
BRA-BRGWC-34S	Radium-226	0.499	NA	0.499	UJ	3
BRA-BRGWC-34S	Total Radium	1.06	U	1.06	UJ	3
BRA-BRGWC-37S	Radium-226	0.578	NA	0.578	UJ	3
BRA-BRGWC-37S	Total Radium	0.578	U	0.578	UJ	3
BRA-PZ-13S	Radium-226	0.550	NA	0.550	UJ	3
BRA-PZ-13S	Total Radium	0.823	U	0.823	UJ	3
BRA-APE-FD-05	Radium-226	0.559	NA	0.559	UJ	3
BRA-APE-FD-05	Total Radium	4.65	NA	4.65	J	3
BRA-BRGWC-35S	Radium-226	0.546	NA	0.546	UJ	3
BRA-BRGWC-35S	Total Radium	3.33	NA	3.33	J	3
BRA-BRGWC-36S	Radium-226	0.594	NA	0.594	UJ	3
BRA-BRGWC-36S	Total Radium	3.87	NA	3.87	J	3
BRA-BRGWC-38S	Radium-226	0.610	NA	0.610	UJ	3
BRA-BRGWC-38S	Total Radium	5.98	NA	5.98	J	3
BRA-PZ-70I	Radium-226	0.655	NA	0.655	UJ	3
BRA-PZ-70I	Total Radium	4.35	NA	4.35	J	3
BRA-BRGWA-2I	Radium-226	0.490	NA	0.490	UJ	3
BRA-BRGWA-2I	Total Radium	0.857	U	0.857	UJ	3
BRA-BRGWA-2S	Radium-226	0.377	NA	0.377	UJ	3
BRA-BRGWA-2S	Total Radium	0.592	U	0.592	UJ	3
BRA-BRGWA-5I	Radium-226	0.501	NA	0.501	UJ	3
BRA-BRGWA-5I	Total Radium	1.36	NA	1.36	UJ	3
BRA-APBCD-FD-01	Radium-226	1.09	NA	1.09	UJ	3
BRA-APBCD-FD-01	Total Radium	2.39	U	2.39	UJ	3
BRA-APBCD-FD-02	Radium-226	0.652	NA	0.652	UJ	3
BRA-APBCD-FD-02	Total Radium	1.14	U	1.14	UJ	3
BRA-BRGWC-50	Radium-226	1.26	NA	1.26	UJ	3
BRA-BRGWC-50	Total Radium	1.55	NA	1.55	UJ	3
BRA-PZ-50D	Radium-226	0.941	NA	0.941	UJ	3
BRA-PZ-50D	Total Radium	2.12	NA	2.12	UJ	3
BRA-PZ-51I	Radium-226	1.02	NA	1.02	UJ	3
BRA-PZ-51I	Total Radium	5.22	NA	5.22	J	3
BRA-PZ-58I	Radium-226	1.95	NA	1.95	J	3
BRA-PZ-58I	Total Radium	3.71	NA	3.71	J	3

Sample	Analyte	Laboratory Result (pCi/L)	Laboratory Flag	Validation Result (pCi/L)	Validation Qualifier	Reason Code
BRA-PZ-60I	Radium-226	1.83	NA	1.83	J	3
BRA-PZ-60I	Total Radium	4.48	NA	4.48	J	3
BRA-PZ-63I	Radium-226	0.873	NA	0.873	UJ	3
BRA-PZ-63I	Total Radium	2.31	NA	2.31	UJ	3
BRA-PZ-68D	Radium-226	0.786	NA	0.786	UJ	3
BRA-PZ-68D	Total Radium	1.62	NA	1.62	UJ	3
BRA-BRGWA-23S	Radium-226	1.06	NA	1.06	UJ	3
BRA-BRGWA-23S	Total Radium	2.16	NA	2.16	UJ	3
BRA-BRGWC-30I	Radium-226	0.736	NA	0.736	UJ	3
BRA-BRGWC-30I	Total Radium	2.71	NA	2.71	UJ	3
BRA-BRGWC-32S	Radium-226	0.729	NA	0.729	UJ	3
BRA-BRGWC-32S	Total Radium	2.33	NA	2.33	UJ	3
BRA-PZ-61I	Radium-226	0.353	NA	0.353	UJ	3
BRA-PZ-61I	Total Radium	0.868	U	0.868	UJ	3
BRA-APBCD-FB-03	Radium-228	1.61	NA	1.61	UJ	3
BRA-APBCD-FB-03	Total Radium	1.93	NA	1.93	UJ	3
BRA-APBCD-FD-03	Radium-228	4.38	NA	4.38	J	3
BRA-APBCD-FD-03	Total Radium	4.92	NA	4.92	J	3
BRA-BRGWC-25I	Radium-226	0.574	NA	0.574	UJ	3
BRA-BRGWC-25I	Total Radium	1.21	U	1.21	UJ	3
BRA-BRGWC-27I	Radium-226	1.13	NA	1.13	UJ	3
BRA-BRGWC-27I	Total Radium	2.23	NA	2.23	UJ	3
BRA-BRGWC-29I	Radium-226	1.12	NA	1.12	UJ	3
BRA-BRGWC-29I	Total Radium	3.02	NA	3.02	UJ	3
BRA-BRGWC-45	Radium-226	0.607	NA	0.607	UJ	3
BRA-BRGWC-45	Total Radium	0.607	U	0.607	UJ	3
BRA-BRGWC-47	Radium-226	0.834	NA	0.834	UJ	3
BRA-BRGWC-47	Total Radium	2.39	NA	2.39	UJ	3
BRA-BRGWC-52I	Radium-226	1.50	NA	1.50	UJ	3
BRA-BRGWC-52I	Radium-228	4.85	NA	4.85	J	3
BRA-BRGWC-52I	Total Radium	6.36	NA	6.36	J	3
BRA-PZ-51D	Radium-226	0.860	NA	0.860	UJ	3
BRA-PZ-51D	Total Radium	1.27	NA	1.27	UJ	3
BRA-PZ-74I	Radium-226	0.620	NA	0.620	UJ	3
BRA-PZ-74I	Total Radium	0.811	U	0.811	UJ	3
BRA-PZ-75I	Radium-226	1.20	NA	1.20	UJ	3
BRA-PZ-75I	Radium-228	1.91	NA	1.91	UJ	3
BRA-PZ-75I	Total Radium	3.11	NA	3.11	J	3
BRA-PZ-52D	Radium-226	0.481	NA	0.481	UJ	3

Sample	Analyte	Laboratory Result (pCi/L)	Laboratory Flag	Validation Result (pCi/L)	Validation Qualifier	Reason Code
BRA-PZ-52D	Total Radium	1.14	U	1.14	UJ	3
BRA-PZ-53D	Radium-226	1.01	NA	1.01	UJ	3
BRA-PZ-53D	Radium-228	2.65	NA	2.65	UJ	3
BRA-PZ-53D	Total Radium	3.67	NA	3.67	UJ	3

pCi/L-picocuries per liter
U-not detected at or above the MDC
NA-not applicable

Low-Flow Test Report:

Test Date / Time: 1/30/2024 9:49:09 AM
Project: Plant Branch Ash Ponds
Operator Name: J. Tracy

Location Name: BRGWA-2I **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 56 ft** **Total Depth: 66.94 ft** **Initial Depth to Water: 11.91 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 61 ft** **Estimated Total Volume Pumped: 34.5 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 250 ml/min** **Final Draw Down: 40.68 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 883546**

Test Notes:
Sample time 1252 weather is sunny 51

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
1/30/2024 9:49 AM	00:00	6.64 pH	13.30 °C	117.84 µS/cm	1.41 mg/L	2.00 NTU	84.2 mV	11.91 ft	100.00 ml/min
1/30/2024 9:54 AM	05:00	6.74 pH	13.33 °C	115.89 µS/cm	2.16 mg/L	1.03 NTU	84.5 mV	13.70 ft	100.00 ml/min
1/30/2024 9:59 AM	10:00	6.79 pH	13.74 °C	116.41 µS/cm	1.98 mg/L	1.26 NTU	83.3 mV	13.76 ft	100.00 ml/min
1/30/2024 10:04 AM	15:00	6.79 pH	13.47 °C	116.46 µS/cm	1.50 mg/L	2.12 NTU	84.5 mV	13.76 ft	100.00 ml/min
1/30/2024 10:09 AM	20:00	6.80 pH	13.65 °C	116.96 µS/cm	1.12 mg/L	2.69 NTU	84.6 mV	13.76 ft	100.00 ml/min
1/30/2024 10:14 AM	25:00	6.80 pH	13.79 °C	108.28 µS/cm	1.28 mg/L	3.56 NTU	84.6 mV	13.76 ft	100.00 ml/min
1/30/2024 10:19 AM	30:00	6.79 pH	13.65 °C	121.94 µS/cm	1.31 mg/L	4.80 NTU	86.0 mV	13.76 ft	100.00 ml/min
1/30/2024 10:24 AM	35:00	6.84 pH	13.86 °C	119.73 µS/cm	1.52 mg/L	4.89 NTU	82.5 mV	13.76 ft	100.00 ml/min
1/30/2024 10:29 AM	40:00	6.78 pH	13.86 °C	115.00 µS/cm	1.70 mg/L	6.23 NTU	83.0 mV	13.76 ft	100.00 ml/min
1/30/2024 10:34 AM	45:00	6.68 pH	14.04 °C	113.51 µS/cm	1.97 mg/L	6.48 NTU	84.3 mV	13.76 ft	100.00 ml/min
1/30/2024 10:39 AM	50:00	6.67 pH	14.24 °C	111.18 µS/cm	2.11 mg/L	7.33 NTU	81.1 mV	13.76 ft	100.00 ml/min
1/30/2024 10:44 AM	55:00	6.67 pH	14.51 °C	108.14 µS/cm	2.18 mg/L	8.80 NTU	79.3 mV	13.76 ft	100.00 ml/min
1/30/2024 10:49 AM	01:00:00	6.64 pH	14.51 °C	107.71 µS/cm	2.35 mg/L	8.48 NTU	78.3 mV	13.76 ft	100.00 ml/min
1/30/2024 10:54 AM	01:05:00	6.65 pH	15.10 °C	106.90 µS/cm	2.33 mg/L	10.80 NTU	76.7 mV	13.76 ft	100.00 ml/min

1/30/2024 10:59 AM	01:10:00	6.63 pH	16.01 °C	107.02 µS/cm	2.24 mg/L	9.62 NTU	74.4 mV	14.40 ft	250.00 ml/min
1/30/2024 11:04 AM	01:15:00	6.56 pH	15.90 °C	105.32 µS/cm	2.10 mg/L	10.90 NTU	78.9 mV	14.65 ft	250.00 ml/min
1/30/2024 11:09 AM	01:20:00	6.62 pH	16.11 °C	106.38 µS/cm	2.05 mg/L	9.46 NTU	78.1 mV	15.00 ft	250.00 ml/min
1/30/2024 11:14 AM	01:25:00	6.62 pH	15.98 °C	106.65 µS/cm	1.91 mg/L	11.60 NTU	78.1 mV	15.10 ft	250.00 ml/min
1/30/2024 11:19 AM	01:30:00	6.59 pH	15.92 °C	106.39 µS/cm	2.15 mg/L	12.32 NTU	80.2 mV	15.20 ft	250.00 ml/min
1/30/2024 11:24 AM	01:35:00	6.62 pH	15.73 °C	105.84 µS/cm	2.01 mg/L	12.60 NTU	80.7 mV	15.30 ft	250.00 ml/min
1/30/2024 11:29 AM	01:40:00	6.61 pH	15.82 °C	105.08 µS/cm	2.05 mg/L	11.70 NTU	79.6 mV	15.30 ft	250.00 ml/min
1/30/2024 11:34 AM	01:45:00	6.58 pH	15.73 °C	106.03 µS/cm	2.24 mg/L	11.10 NTU	82.6 mV	15.30 ft	250.00 ml/min
1/30/2024 11:39 AM	01:50:00	6.62 pH	15.86 °C	105.63 µS/cm	1.99 mg/L	10.60 NTU	80.7 mV	15.30 ft	250.00 ml/min
1/30/2024 11:44 AM	01:55:00	6.62 pH	15.83 °C	105.67 µS/cm	2.06 mg/L	10.40 NTU	79.4 mV	15.30 ft	250.00 ml/min
1/30/2024 11:49 AM	02:00:00	6.58 pH	15.90 °C	105.53 µS/cm	2.01 mg/L	10.80 NTU	81.7 mV	15.30 ft	250.00 ml/min
1/30/2024 11:54 AM	02:05:00	6.61 pH	16.00 °C	105.63 µS/cm	2.15 mg/L	11.00 NTU	80.9 mV	15.30 ft	250.00 ml/min
1/30/2024 11:59 AM	02:10:00	6.61 pH	16.00 °C	105.36 µS/cm	2.12 mg/L	9.62 NTU	80.1 mV	15.30 ft	250.00 ml/min
1/30/2024 12:04 PM	02:15:00	6.59 pH	16.02 °C	105.31 µS/cm	2.07 mg/L	9.43 NTU	81.7 mV	15.30 ft	250.00 ml/min
1/30/2024 12:09 PM	02:20:00	6.61 pH	16.23 °C	105.45 µS/cm	2.24 mg/L	9.34 NTU	80.3 mV	15.30 ft	250.00 ml/min
1/30/2024 12:14 PM	02:25:00	6.61 pH	16.44 °C	105.83 µS/cm	2.16 mg/L	9.27 NTU	79.7 mV	15.30 ft	250.00 ml/min
1/30/2024 12:19 PM	02:30:00	6.57 pH	16.62 °C	105.71 µS/cm	2.16 mg/L	8.30 NTU	82.1 mV	15.30 ft	250.00 ml/min
1/30/2024 12:24 PM	02:35:00	6.60 pH	16.72 °C	105.89 µS/cm	2.16 mg/L	7.78 NTU	80.2 mV	15.30 ft	250.00 ml/min
1/30/2024 12:29 PM	02:40:00	6.61 pH	17.11 °C	105.93 µS/cm	2.12 mg/L	7.83 NTU	79.5 mV	15.30 ft	250.00 ml/min
1/30/2024 12:34 PM	02:45:00	6.58 pH	17.00 °C	105.85 µS/cm	2.32 mg/L	7.94 NTU	82.0 mV	15.30 ft	250.00 ml/min
1/30/2024 12:39 PM	02:50:00	6.59 pH	17.28 °C	105.73 µS/cm	2.17 mg/L	8.30 NTU	79.8 mV	15.30 ft	250.00 ml/min
1/30/2024 12:44 PM	02:55:00	6.61 pH	17.26 °C	105.75 µS/cm	2.09 mg/L	8.95 NTU	79.3 mV	15.30 ft	250.00 ml/min
1/30/2024 12:49 PM	03:00:00	6.57 pH	17.23 °C	105.31 µS/cm	2.17 mg/L	7.19 NTU	81.8 mV	15.30 ft	250.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 1/30/2024 9:45:06 AM
Project: Plant Branch Ash Ponds
Operator Name: J. Berisford

Location Name: BRGWA-2S **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 37.4 ft** **Total Depth: 47.4 ft** **Initial Depth to Water: 12.06 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 42 ft** **Estimated Total Volume Pumped: 13.5 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 225 ml/min** **Final Draw Down: 2 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850762**

Test Notes:
Sunny, sample time-1045, FE2+=0.0 mg/L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
1/30/2024 9:45 AM	00:00	7.63 pH	7.95 °C	273.07 µS/cm	12.09 mg/L	2.53 NTU	219.4 mV	12.06 ft	225.00 ml/min
1/30/2024 9:50 AM	05:00	6.13 pH	15.21 °C	66.96 µS/cm	2.91 mg/L	1.56 NTU	139.5 mV	12.20 ft	225.00 ml/min
1/30/2024 9:55 AM	10:00	6.06 pH	15.78 °C	65.46 µS/cm	3.25 mg/L	1.73 NTU	99.4 mV	12.20 ft	225.00 ml/min
1/30/2024 10:00 AM	15:00	6.03 pH	15.89 °C	64.44 µS/cm	2.95 mg/L	1.79 NTU	90.9 mV	12.20 ft	225.00 ml/min
1/30/2024 10:05 AM	20:00	6.12 pH	15.96 °C	63.78 µS/cm	2.94 mg/L	1.58 NTU	83.7 mV	12.20 ft	225.00 ml/min
1/30/2024 10:10 AM	25:00	6.02 pH	16.05 °C	63.66 µS/cm	3.16 mg/L	1.21 NTU	78.4 mV	12.20 ft	225.00 ml/min
1/30/2024 10:15 AM	30:00	6.01 pH	16.10 °C	31.62 µS/cm	2.54 mg/L	1.17 NTU	74.1 mV	12.20 ft	225.00 ml/min
1/30/2024 10:20 AM	35:00	6.01 pH	16.09 °C	63.05 µS/cm	2.70 mg/L	0.86 NTU	72.6 mV	12.20 ft	225.00 ml/min
1/30/2024 10:25 AM	40:00	6.01 pH	16.22 °C	63.34 µS/cm	2.72 mg/L	0.78 NTU	71.7 mV	12.20 ft	225.00 ml/min
1/30/2024 10:30 AM	45:00	6.04 pH	15.95 °C	61.93 µS/cm	2.27 mg/L	1.51 NTU	73.0 mV	12.20 ft	225.00 ml/min
1/30/2024 10:35 AM	50:00	6.07 pH	13.52 °C	61.71 µS/cm	3.75 mg/L	0.52 NTU	72.9 mV	12.20 ft	225.00 ml/min
1/30/2024 10:40 AM	55:00	6.05 pH	12.94 °C	61.91 µS/cm	3.77 mg/L	0.64 NTU	77.6 mV	12.20 ft	225.00 ml/min
1/30/2024 10:45 AM	01:00:00	6.05 pH	13.11 °C	61.44 µS/cm	3.77 mg/L	0.55 NTU	79.3 mV	12.20 ft	225.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 1/30/2024 9:55:43 AM
Project: Plant Branch Ash Ponds
Operator Name: A. Schnittker

Location Name: BRGWA-5I **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 53.89 ft** **Total Depth: 63.89 ft** **Initial Depth to Water: 13.46 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 58 ft** **Estimated Total Volume Pumped: 8.7 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 250 ml/min** **Final Draw Down: 5 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080307**

Test Notes:
Sample time 1030. Sunny 50s.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
1/30/2024 9:55 AM	00:00	6.48 pH	16.46 °C	164.98 µS/cm	4.28 mg/L	1.43 NTU	132.8 mV	13.46 ft	250.00 ml/min
1/30/2024 10:00 AM	05:00	6.50 pH	17.59 °C	173.08 µS/cm	1.89 mg/L	1.12 NTU	79.8 mV	13.80 ft	250.00 ml/min
1/30/2024 10:05 AM	10:00	6.47 pH	17.82 °C	163.80 µS/cm	2.39 mg/L	1.09 NTU	65.8 mV	13.80 ft	250.00 ml/min
1/30/2024 10:10 AM	15:00	6.45 pH	17.91 °C	158.87 µS/cm	2.96 mg/L	0.85 NTU	64.8 mV	13.90 ft	250.00 ml/min
1/30/2024 10:15 AM	20:00	6.45 pH	17.98 °C	154.47 µS/cm	3.39 mg/L	0.66 NTU	64.9 mV	13.90 ft	250.00 ml/min
1/30/2024 10:20 AM	25:00	6.44 pH	18.07 °C	151.64 µS/cm	3.73 mg/L	0.64 NTU	65.3 mV	13.90 ft	250.00 ml/min
1/30/2024 10:25 AM	30:00	6.44 pH	18.01 °C	150.11 µS/cm	3.93 mg/L	0.45 NTU	65.2 mV	13.90 ft	250.00 ml/min
1/30/2024 10:30 AM	35:00	6.44 pH	18.04 °C	149.02 µS/cm	4.06 mg/L	0.52 NTU	65.2 mV	13.90 ft	250.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 1/30/2024 9:52:24 AM
Project: Plant Branch Ash Ponds
Operator Name: Hunter Auld

Location Name: BRGWA-5S **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 33 ft** **Total Depth: 43.06 ft** **Initial Depth to Water: 13.57 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 38 ft** **Estimated Total Volume Pumped: 6 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 250 ml/min** **Final Draw Down: 0.4 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 877800**

Test Notes:
Sampled at 1022. Sunny 40s.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
1/30/2024 9:52 AM	00:00	6.62 pH	13.78 °C	11.34 µS/cm	10.27 mg/L		262.3 mV	13.57 ft	175.00 ml/min
1/30/2024 9:57 AM	05:00	6.34 pH	17.83 °C	117.24 µS/cm	3.09 mg/L	2.90 NTU	162.7 mV	13.60 ft	175.00 ml/min
1/30/2024 10:02 AM	10:00	6.32 pH	18.40 °C	118.74 µS/cm	2.66 mg/L	1.70 NTU	77.4 mV	13.60 ft	175.00 ml/min
1/30/2024 10:07 AM	15:00	6.33 pH	18.63 °C	120.47 µS/cm	2.57 mg/L	1.50 NTU	61.0 mV	13.60 ft	175.00 ml/min
1/30/2024 10:12 AM	20:00	6.35 pH	19.26 °C	123.38 µS/cm	2.49 mg/L	1.60 NTU	53.1 mV	13.60 ft	250.00 ml/min
1/30/2024 10:17 AM	25:00	6.36 pH	19.28 °C	123.40 µS/cm	2.41 mg/L	1.90 NTU	51.6 mV	13.60 ft	250.00 ml/min
1/30/2024 10:22 AM	30:00	6.38 pH	19.27 °C	124.12 µS/cm	2.29 mg/L	2.30 NTU	50.0 mV	13.60 ft	250.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 1/30/2024 9:51:38 AM
Project: Plant Branch Ash Ponds
Operator Name: Taylor Goble

Location Name: BRGWA-6S **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 42.86 ft** **Total Depth: 52.86 ft** **Initial Depth to Water: 27.65 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 48 ft** **Estimated Total Volume Pumped: 6900 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 230 ml/min** **Final Draw Down: 0.66 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 714344**

Test Notes:
Sampled at 1021. Sunny 41 degrees

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
1/30/2024 9:51 AM	00:00	6.57 pH	13.88 °C	90.26 µS/cm	8.29 mg/L	1.81 NTU	163.9 mV	28.02 ft	230.00 ml/min
1/30/2024 9:56 AM	05:00	5.30 pH	20.70 °C	52.34 µS/cm	5.77 mg/L	1.55 NTU	107.6 mV	28.19 ft	230.00 ml/min
1/30/2024 10:01 AM	10:00	5.52 pH	18.43 °C	54.42 µS/cm	6.09 mg/L	1.17 NTU	99.0 mV	28.25 ft	230.00 ml/min
1/30/2024 10:06 AM	15:00	5.63 pH	18.52 °C	53.92 µS/cm	6.08 mg/L	1.03 NTU	96.4 mV	28.31 ft	230.00 ml/min
1/30/2024 10:11 AM	20:00	5.69 pH	18.45 °C	54.34 µS/cm	6.15 mg/L	1.14 NTU	95.7 mV	28.31 ft	230.00 ml/min
1/30/2024 10:16 AM	25:00	5.72 pH	18.05 °C	55.07 µS/cm	6.34 mg/L	0.98 NTU	96.4 mV	28.31 ft	230.00 ml/min
1/30/2024 10:21 AM	30:00	5.75 pH	18.45 °C	54.66 µS/cm	6.14 mg/L	0.92 NTU	96.9 mV	28.31 ft	230.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 1/30/2024 11:53:00 AM
Project: Plant Branch Ash Ponds
Operator Name: Hunter auld

Location Name: BRGWA-23S **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 33.5 ft** **Total Depth: 43.5 ft** **Initial Depth to Water: 41.41 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 41.8 ft** **Estimated Total Volume Pumped: 4.6 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 100 ml/min** **Final Draw Down: 0 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 877800**

Test Notes: Sample time 1238. Sunny, 50s. Initial waterlevel noted on log, WL was below top of the pump.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
1/30/2024 11:53 AM	00:00	6.50 pH	26.37 °C	0.12 µS/cm	7.83 mg/L	5.00 NTU	46.3 mV	41.41 ft	100.00 ml/min
1/30/2024 11:58 AM	05:00	5.98 pH	21.80 °C	78.38 µS/cm	3.04 mg/L	18.00 NTU	104.8 mV	41.41 ft	100.00 ml/min
1/30/2024 11:58 AM	05:31	5.95 pH	22.10 °C	77.69 µS/cm	2.88 mg/L	17.50 NTU	105.1 mV	41.41 ft	100.00 ml/min
1/30/2024 12:03 PM	10:31	5.91 pH	22.00 °C	79.53 µS/cm	2.13 mg/L	11.10 NTU	94.6 mV	41.41 ft	100.00 ml/min
1/30/2024 12:08 PM	15:31	5.89 pH	22.09 °C	80.96 µS/cm	2.03 mg/L	8.40 NTU	87.4 mV	41.41 ft	100.00 ml/min
1/30/2024 12:13 PM	20:31	5.89 pH	22.70 °C	79.63 µS/cm	2.23 mg/L	6.40 NTU	56.5 mV	41.41 ft	100.00 ml/min
1/30/2024 12:18 PM	25:31	5.88 pH	22.61 °C	78.29 µS/cm	2.66 mg/L	2.30 NTU	54.6 mV	41.41 ft	100.00 ml/min
1/30/2024 12:23 PM	30:31	5.87 pH	22.86 °C	76.50 µS/cm	3.05 mg/L	1.00 NTU	55.3 mV	41.41 ft	100.00 ml/min
1/30/2024 12:28 PM	35:31	5.87 pH	23.02 °C	75.76 µS/cm	3.25 mg/L	0.90 NTU	57.3 mV	41.41 ft	100.00 ml/min
1/30/2024 12:33 PM	40:31	5.87 pH	22.90 °C	74.77 µS/cm	3.44 mg/L	0.76 NTU	57.8 mV	41.41 ft	100.00 ml/min
1/30/2024 12:38 PM	45:31	5.87 pH	23.11 °C	74.33 µS/cm	3.52 mg/L	0.60 NTU	82.9 mV	41.41 ft	100.00 ml/min

Samples

Sample ID:	Description:

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Low-Flow Test Report:

Test Date / Time: 1/31/2024 2:05:24 PM
Project: Plant Branch Ash Ponds
Operator Name: Hunter Auld

Location Name: BRGWC-25I **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 12.8 ft** **Total Depth: 22.87 ft** **Initial Depth to Water: 11.79 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 17 ft** **Estimated Total Volume Pumped: 8.3 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 260 ml/min** **Final Draw Down: 1.3 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965658**

Test Notes:
Sample time 1437. Partly cloudy 50s. APBCD-FB-01 here at 1425.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
1/31/2024 2:05 PM	00:00	6.72 pH	21.48 °C	1.41 µS/cm	8.55 mg/L	10.00 NTU	170.8 mV	11.79 ft	260.00 ml/min
1/31/2024 2:07 PM	02:06	6.14 pH	17.99 °C	392.81 µS/cm	4.72 mg/L	5.00 NTU	117.8 mV	11.79 ft	260.00 ml/min
1/31/2024 2:12 PM	07:06	6.26 pH	17.78 °C	395.79 µS/cm	0.62 mg/L	1.40 NTU	111.1 mV	11.90 ft	260.00 ml/min
1/31/2024 2:17 PM	12:06	6.28 pH	17.76 °C	395.69 µS/cm	0.37 mg/L	0.40 NTU	109.9 mV	11.90 ft	260.00 ml/min
1/31/2024 2:22 PM	17:06	6.30 pH	17.85 °C	395.65 µS/cm	0.27 mg/L	0.30 NTU	109.5 mV	11.90 ft	260.00 ml/min
1/31/2024 2:27 PM	22:06	6.30 pH	17.85 °C	395.74 µS/cm	0.25 mg/L	0.30 NTU	109.2 mV	11.90 ft	260.00 ml/min
1/31/2024 2:32 PM	27:06	6.30 pH	17.83 °C	396.00 µS/cm	0.25 mg/L	0.20 NTU	109.4 mV	11.90 ft	260.00 ml/min
1/31/2024 2:37 PM	32:06	6.31 pH	17.81 °C	396.68 µS/cm	0.25 mg/L	0.17 NTU	109.0 mV	11.90 ft	260.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 1/31/2024 3:15:17 PM
Project: Plant Branch Ash Ponds
Operator Name: Hunter Auld

Location Name: BRGWC-27I **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 16.8 ft** **Total Depth: 26.86 ft** **Initial Depth to Water: 12.36 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 21 ft** **Estimated Total Volume Pumped: 5 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.5 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965658**

Test Notes:
Sample time 1540. Clear 50s.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
1/31/2024 3:15 PM	00:00	6.69 pH	17.34 °C	322.97 µS/cm	5.97 mg/L	5.00 NTU	110.1 mV	12.36 ft	200.00 ml/min
1/31/2024 3:20 PM	05:00	5.94 pH	17.68 °C	288.06 µS/cm	1.75 mg/L	0.16 NTU	110.8 mV	12.40 ft	200.00 ml/min
1/31/2024 3:25 PM	10:00	5.77 pH	17.94 °C	277.24 µS/cm	0.68 mg/L	0.12 NTU	111.6 mV	12.40 ft	200.00 ml/min
1/31/2024 3:30 PM	15:00	5.76 pH	18.00 °C	280.66 µS/cm	0.33 mg/L	0.14 NTU	111.8 mV	12.40 ft	200.00 ml/min
1/31/2024 3:35 PM	20:00	5.79 pH	18.25 °C	289.03 µS/cm	0.26 mg/L	0.15 NTU	111.7 mV	12.40 ft	200.00 ml/min
1/31/2024 3:40 PM	25:00	5.83 pH	18.25 °C	295.04 µS/cm	0.23 mg/L	0.18 NTU	111.5 mV	12.40 ft	200.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 1/31/2024 9:55:11 AM
Project: Plant Branch Ash Ponds
Operator Name: J. Berisford

Location Name: BRGWC-29I **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 12.63 ft** **Total Depth: 22.63 ft** **Initial Depth to Water: 10.52 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 17 ft** **Estimated Total Volume Pumped: 13.5 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 300 ml/min** **Final Draw Down: 1 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850762**

Test Notes:
Sunny, sample time-1040 Fe2+= 5.5 mg/L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
1/31/2024 9:55 AM	00:00	3.15 pH	10.38 °C	699.08 µS/cm	11.27 mg/L	1.85 NTU	240.5 mV	10.52 ft	300.00 ml/min
1/31/2024 10:00 AM	05:00	3.86 pH	16.20 °C	584.16 µS/cm	2.02 mg/L	1.34 NTU	252.0 mV	10.60 ft	300.00 ml/min
1/31/2024 10:05 AM	10:00	4.19 pH	16.71 °C	577.44 µS/cm	0.37 mg/L	0.92 NTU	253.2 mV	10.60 ft	300.00 ml/min
1/31/2024 10:10 AM	15:00	4.27 pH	17.21 °C	574.80 µS/cm	0.19 mg/L	0.87 NTU	241.1 mV	10.60 ft	300.00 ml/min
1/31/2024 10:15 AM	20:00	4.31 pH	17.25 °C	571.91 µS/cm	0.15 mg/L	0.94 NTU	238.1 mV	10.60 ft	300.00 ml/min
1/31/2024 10:20 AM	25:00	4.32 pH	17.57 °C	573.65 µS/cm	0.13 mg/L	0.88 NTU	234.7 mV	10.60 ft	300.00 ml/min
1/31/2024 10:25 AM	30:00	4.34 pH	17.67 °C	571.61 µS/cm	0.12 mg/L	0.99 NTU	232.5 mV	10.60 ft	300.00 ml/min
1/31/2024 10:30 AM	35:00	4.35 pH	17.83 °C	572.16 µS/cm	0.11 mg/L	0.53 NTU	230.3 mV	10.60 ft	300.00 ml/min
1/31/2024 10:35 AM	40:00	4.35 pH	17.91 °C	571.49 µS/cm	0.10 mg/L	0.66 NTU	228.7 mV	10.60 ft	300.00 ml/min
1/31/2024 10:40 AM	45:00	4.37 pH	18.06 °C	569.10 µS/cm	0.10 mg/L	0.77 NTU	230.7 mV	10.60 ft	300.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 1/30/2024 2:29:18 PM
Project: Plant Branch Ash Ponds
Operator Name: Hunter auld

Location Name: BRGWC-30I **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 12.86 ft** **Total Depth: 22.86 ft** **Initial Depth to Water: 5.04 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 17 ft** **Estimated Total Volume Pumped: 49 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 300 ml/min** **Final Draw Down: 3.1 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 877800**

Test Notes:
Sample time 1734. Clear, 50s.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
1/30/2024 2:29 PM	00:00	6.53 pH	23.49 °C	1,578.4 µS/cm	2.35 mg/L	500.00 NTU	39.3 mV	5.04 ft	300.00 ml/min
1/30/2024 2:34 PM	05:00	6.40 pH	21.87 °C	1,590.9 µS/cm	3.28 mg/L	187.00 NTU	57.7 mV	5.30 ft	300.00 ml/min
1/30/2024 2:39 PM	10:00	6.39 pH	22.61 °C	1,567.3 µS/cm	1.74 mg/L	108.00 NTU	43.0 mV	5.30 ft	300.00 ml/min
1/30/2024 2:44 PM	15:00	6.39 pH	22.74 °C	1,559.3 µS/cm	3.30 mg/L	59.50 NTU	45.0 mV	5.30 ft	300.00 ml/min
1/30/2024 2:49 PM	20:00	6.38 pH	22.90 °C	1,552.1 µS/cm	3.21 mg/L	45.30 NTU	42.8 mV	5.30 ft	300.00 ml/min
1/30/2024 2:54 PM	25:00	6.39 pH	23.30 °C	1,538.8 µS/cm	0.70 mg/L	36.50 NTU	43.2 mV	5.30 ft	300.00 ml/min
1/30/2024 2:59 PM	30:00	6.38 pH	23.21 °C	1,543.6 µS/cm	0.20 mg/L	27.20 NTU	42.6 mV	5.30 ft	300.00 ml/min
1/30/2024 3:04 PM	35:00	6.39 pH	23.36 °C	1,541.8 µS/cm	1.37 mg/L	23.40 NTU	45.9 mV	5.30 ft	300.00 ml/min
1/30/2024 3:09 PM	40:00	6.39 pH	23.31 °C	1,540.5 µS/cm	2.15 mg/L	23.40 NTU	65.7 mV	5.30 ft	300.00 ml/min
1/30/2024 3:14 PM	45:00	6.39 pH	23.59 °C	1,626.4 µS/cm	2.56 mg/L	23.50 NTU	45.9 mV	5.30 ft	300.00 ml/min
1/30/2024 3:19 PM	50:00	6.40 pH	24.00 °C	1,517.4 µS/cm	2.91 mg/L	21.20 NTU	47.3 mV	5.30 ft	200.00 ml/min
1/30/2024 3:24 PM	55:00	6.41 pH	23.93 °C	1,512.9 µS/cm	1.97 mg/L	18.80 NTU	48.3 mV	5.30 ft	200.00 ml/min
1/30/2024 3:29 PM	01:00:00	6.41 pH	23.60 °C	1,512.4 µS/cm	1.57 mg/L	19.30 NTU	68.0 mV	5.30 ft	200.00 ml/min
1/30/2024 3:34 PM	01:05:00	6.42 pH	23.59 °C	1,509.7 µS/cm	1.90 mg/L	16.60 NTU	45.8 mV	5.30 ft	200.00 ml/min

1/30/2024 3:39 PM	01:10:00	6.42 pH	23.62 °C	1,505.6 µS/cm	3.77 mg/L	14.90 NTU	47.8 mV	5.30 ft	200.00 ml/min
1/30/2024 3:44 PM	01:15:00	6.41 pH	23.58 °C	1,473.1 µS/cm	2.20 mg/L	14.30 NTU	45.9 mV	5.30 ft	200.00 ml/min
1/30/2024 3:49 PM	01:20:00	6.42 pH	23.71 °C	1,499.9 µS/cm	1.70 mg/L	14.50 NTU	45.5 mV	5.30 ft	200.00 ml/min
1/30/2024 3:54 PM	01:25:00	6.41 pH	23.78 °C	1,496.3 µS/cm	2.08 mg/L	17.10 NTU	47.4 mV	5.30 ft	200.00 ml/min
1/30/2024 3:59 PM	01:30:00	6.39 pH	23.74 °C	1,492.9 µS/cm	0.73 mg/L	110.00 NTU	44.2 mV	5.30 ft	200.00 ml/min
1/30/2024 4:04 PM	01:35:00	6.39 pH	23.96 °C	1,477.6 µS/cm	0.59 mg/L	103.00 NTU	46.6 mV	5.30 ft	200.00 ml/min
1/30/2024 4:09 PM	01:40:00	6.39 pH	24.01 °C	1,472.5 µS/cm	0.21 mg/L	65.60 NTU	44.4 mV	5.30 ft	200.00 ml/min
1/30/2024 4:14 PM	01:45:00	6.39 pH	24.14 °C	1,467.3 µS/cm	0.20 mg/L	47.50 NTU	44.0 mV	5.30 ft	200.00 ml/min
1/30/2024 4:19 PM	01:50:00	6.39 pH	24.55 °C	1,470.6 µS/cm	0.20 mg/L	37.60 NTU	44.3 mV	5.30 ft	200.00 ml/min
1/30/2024 4:24 PM	01:55:00	6.38 pH	24.83 °C	1,483.2 µS/cm	0.17 mg/L	27.10 NTU	45.0 mV	5.30 ft	300.00 ml/min
1/30/2024 4:29 PM	02:00:00	6.39 pH	24.77 °C	1,489.8 µS/cm	0.15 mg/L	18.50 NTU	44.5 mV	5.30 ft	300.00 ml/min
1/30/2024 4:34 PM	02:05:00	6.39 pH	25.00 °C	1,484.5 µS/cm	0.15 mg/L	17.20 NTU	44.8 mV	5.30 ft	300.00 ml/min
1/30/2024 4:39 PM	02:10:00	6.38 pH	25.00 °C	1,483.7 µS/cm	0.14 mg/L	13.90 NTU	44.8 mV	5.30 ft	300.00 ml/min
1/30/2024 4:44 PM	02:15:00	6.39 pH	25.18 °C	1,478.7 µS/cm	0.14 mg/L	13.20 NTU	44.6 mV	5.30 ft	300.00 ml/min
1/30/2024 4:49 PM	02:20:00	6.39 pH	24.79 °C	1,483.4 µS/cm	0.15 mg/L	13.60 NTU	67.7 mV	5.30 ft	300.00 ml/min
1/30/2024 4:54 PM	02:25:00	6.39 pH	25.09 °C	1,479.8 µS/cm	0.14 mg/L	13.50 NTU	49.2 mV	5.30 ft	300.00 ml/min
1/30/2024 4:59 PM	02:30:00	6.39 pH	25.33 °C	1,476.2 µS/cm	0.14 mg/L	12.20 NTU	45.9 mV	5.30 ft	300.00 ml/min
1/30/2024 5:04 PM	02:35:00	6.39 pH	25.40 °C	1,471.8 µS/cm	0.13 mg/L	11.10 NTU	47.8 mV	5.30 ft	300.00 ml/min
1/30/2024 5:09 PM	02:40:00	6.39 pH	25.44 °C	1,472.5 µS/cm	0.12 mg/L	10.50 NTU	45.0 mV	5.30 ft	300.00 ml/min
1/30/2024 5:14 PM	02:45:00	6.39 pH	25.30 °C	1,468.5 µS/cm	0.13 mg/L	11.20 NTU	45.3 mV	5.30 ft	300.00 ml/min
1/30/2024 5:19 PM	02:50:00	6.39 pH	25.66 °C	1,465.0 µS/cm	0.13 mg/L	11.10 NTU	47.7 mV	5.30 ft	300.00 ml/min
1/30/2024 5:24 PM	02:55:00	6.39 pH	25.58 °C	1,464.1 µS/cm	0.14 mg/L	11.20 NTU	47.4 mV	5.30 ft	300.00 ml/min
1/30/2024 5:29 PM	03:00:00	6.39 pH	25.37 °C	1,465.2 µS/cm	0.25 mg/L	11.90 NTU	47.3 mV	5.30 ft	300.00 ml/min
1/30/2024 5:34 PM	03:05:00	6.39 pH	25.56 °C	1,461.8 µS/cm	0.13 mg/L	9.80 NTU	47.9 mV	5.30 ft	300.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 1/30/2024 11:45:25 AM
Project: Plant Branch Ash Ponds
Operator Name: J. Berisford

Location Name: BRGWC-32S **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 37.79 ft** **Total Depth: 47.79 ft** **Initial Depth to Water: 41.76 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 42 ft** **Estimated Total Volume Pumped: 12.2 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 175 ml/min**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850762**

Test Notes:
Sunny, sample time-1255, Fe2+= 0.0 Mg/L. Water level below top of pump.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
1/30/2024 11:45 AM	00:00	6.58 pH	17.25 °C	0.00 µS/cm	9.86 mg/L	2.04 NTU	40.2 mV	41.76 ft	175.00 ml/min
1/30/2024 11:50 AM	05:00	5.98 pH	17.81 °C	443.41 µS/cm	7.15 mg/L	2.11 NTU	91.3 mV		175.00 ml/min
1/30/2024 11:55 AM	10:00	5.96 pH	18.26 °C	441.17 µS/cm	3.13 mg/L	1.73 NTU	91.2 mV		175.00 ml/min
1/30/2024 12:00 PM	15:00	5.97 pH	18.24 °C	444.53 µS/cm	2.72 mg/L	1.44 NTU	85.3 mV		175.00 ml/min
1/30/2024 12:05 PM	20:00	5.98 pH	18.41 °C	449.01 µS/cm	2.53 mg/L	1.44 NTU	83.4 mV		175.00 ml/min
1/30/2024 12:10 PM	25:00	5.99 pH	18.41 °C	450.88 µS/cm	2.53 mg/L	1.85 NTU	82.4 mV		175.00 ml/min
1/30/2024 12:15 PM	30:00	5.99 pH	18.41 °C	451.67 µS/cm	2.41 mg/L	1.59 NTU	81.5 mV		175.00 ml/min
1/30/2024 12:20 PM	35:00	5.99 pH	18.28 °C	453.99 µS/cm	5.33 mg/L	1.77 NTU	82.2 mV		175.00 ml/min
1/30/2024 12:25 PM	40:00	5.96 pH	18.23 °C	451.56 µS/cm	8.61 mg/L	1.83 NTU	90.1 mV		175.00 ml/min
1/30/2024 12:30 PM	45:00	5.95 pH	18.28 °C	452.06 µS/cm	8.65 mg/L	1.21 NTU	92.9 mV		175.00 ml/min
1/30/2024 12:35 PM	50:00	5.97 pH	18.28 °C	452.09 µS/cm	8.37 mg/L	1.04 NTU	89.2 mV		175.00 ml/min
1/30/2024 12:40 PM	55:00	5.97 pH	18.50 °C	452.15 µS/cm	8.05 mg/L	0.56 NTU	89.2 mV		175.00 ml/min
1/30/2024 12:45 PM	01:00:00	5.97 pH	18.41 °C	452.06 µS/cm	7.62 mg/L	0.68 NTU	88.9 mV		175.00 ml/min
1/30/2024 12:50 PM	01:05:00	5.98 pH	18.55 °C	452.49 µS/cm	7.50 mg/L	0.72 NTU	88.5 mV		175.00 ml/min
1/30/2024 12:55 PM	01:10:00	5.98 pH	18.39 °C	452.27 µS/cm	7.38 mg/L	0.55 NTU	88.6 mV		175.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 2/1/2024 1:05:26 PM
Project: Plant Branch Ash Ponds
Operator Name: J. Berisford

Location Name: BRGWC-45 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 49.98 ft** **Total Depth: 59.98 ft** **Initial Depth to Water: 14.85 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 54 ft** **Estimated Total Volume Pumped: 11.2 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 250 ml/min** **Final Draw Down: 5.5 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850762**

Test Notes:
SUNY, sample time -1350. FB-03 here at 1330. Fe2+= 0.0 mg/L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
2/1/2024 1:05 PM	00:00	5.87 pH	20.72 °C	311.04 µS/cm	1.33 mg/L	3.06 NTU	165.2 mV	14.85 ft	250.00 ml/min
2/1/2024 1:10 PM	05:00	5.86 pH	20.82 °C	309.60 µS/cm	0.50 mg/L	2.77 NTU	195.8 mV	15.10 ft	250.00 ml/min
2/1/2024 1:15 PM	10:00	5.85 pH	20.82 °C	310.05 µS/cm	0.28 mg/L	2.22 NTU	192.2 mV	15.30 ft	250.00 ml/min
2/1/2024 1:20 PM	15:00	5.85 pH	20.95 °C	311.07 µS/cm	0.23 mg/L	1.45 NTU	157.4 mV	15.30 ft	250.00 ml/min
2/1/2024 1:25 PM	20:00	5.85 pH	20.86 °C	310.80 µS/cm	0.25 mg/L	1.49 NTU	141.4 mV	15.30 ft	250.00 ml/min
2/1/2024 1:30 PM	25:00	5.85 pH	20.92 °C	310.69 µS/cm	0.21 mg/L	1.21 NTU	130.4 mV	15.30 ft	250.00 ml/min
2/1/2024 1:35 PM	30:00	5.85 pH	21.04 °C	310.95 µS/cm	0.20 mg/L	1.86 NTU	124.0 mV	15.30 ft	250.00 ml/min
2/1/2024 1:40 PM	35:00	5.85 pH	21.09 °C	310.35 µS/cm	0.32 mg/L	1.28 NTU	136.4 mV	15.30 ft	250.00 ml/min
2/1/2024 1:45 PM	40:00	5.85 pH	21.09 °C	310.86 µS/cm	0.23 mg/L	1.54 NTU	120.3 mV	15.30 ft	250.00 ml/min
2/1/2024 1:50 PM	45:00	5.85 pH	21.08 °C	311.04 µS/cm	0.37 mg/L	1.33 NTU	119.0 mV	15.30 ft	250.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 1/30/2024 2:26:29 PM
Project: Plant Branch Ash Ponds
Operator Name: J. Berisford

Location Name: BRGWC-47 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 84.4 ft** **Total Depth: 94.4 ft** **Initial Depth to Water: 29.66 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 89 ft** **Estimated Total Volume Pumped: 4.5 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: 4 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850762**

Test Notes:
Sunny, sample time-1456, Fe2+= 0.0 mg/L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
1/30/2024 2:26 PM	00:00	5.95 pH	37.37 °C	0.00 µS/cm	6.54 mg/L	0.62 NTU	38.0 mV	29.66 ft	150.00 ml/min
1/30/2024 2:31 PM	05:00	5.82 pH	21.19 °C	1,675.3 µS/cm	1.47 mg/L	1.08 NTU	35.4 mV	30.00 ft	150.00 ml/min
1/30/2024 2:36 PM	10:00	5.77 pH	20.50 °C	1,680.1 µS/cm	0.83 mg/L	1.77 NTU	57.5 mV	30.00 ft	150.00 ml/min
1/30/2024 2:41 PM	15:00	5.76 pH	20.28 °C	1,670.5 µS/cm	0.68 mg/L	1.86 NTU	66.4 mV	30.00 ft	150.00 ml/min
1/30/2024 2:46 PM	20:00	5.75 pH	20.02 °C	1,674.6 µS/cm	0.61 mg/L	1.58 NTU	71.8 mV	30.00 ft	150.00 ml/min
1/30/2024 2:51 PM	25:00	5.74 pH	19.78 °C	1,679.4 µS/cm	0.51 mg/L	1.11 NTU	75.4 mV	30.00 ft	150.00 ml/min
1/30/2024 2:56 PM	30:00	5.73 pH	19.42 °C	1,693.1 µS/cm	0.41 mg/L	1.04 NTU	78.0 mV	30.00 ft	150.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 2/1/2024 11:00:10 AM
Project: Plant Branch Ash Ponds
Operator Name: J. Berisford

Location Name: BRGWC-50 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 57.55 ft** **Total Depth: 67.55 ft** **Initial Depth to Water: 38.54 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 62 ft** **Estimated Total Volume Pumped: 15 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 250 ml/min** **Final Draw Down: 1 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850762**

Test Notes:
Sunny, sample time -1200 fe2+= 0.0 mg/ L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
2/1/2024 11:00 AM	00:00	5.99 pH	13.47 °C	1,355.9 µS/cm	6.92 mg/L	0.40 NTU	82.2 mV	38.54 ft	250.00 ml/min
2/1/2024 11:05 AM	05:00	5.20 pH	17.95 °C	1,692.5 µS/cm	1.44 mg/L	0.87 NTU	148.8 mV	38.60 ft	250.00 ml/min
2/1/2024 11:10 AM	10:00	5.18 pH	18.66 °C	1,678.8 µS/cm	1.13 mg/L	0.99 NTU	157.6 mV	38.60 ft	250.00 ml/min
2/1/2024 11:15 AM	15:00	5.17 pH	18.50 °C	1,682.4 µS/cm	0.78 mg/L	0.73 NTU	171.2 mV	38.60 ft	250.00 ml/min
2/1/2024 11:20 AM	20:00	5.16 pH	18.50 °C	1,681.6 µS/cm	0.63 mg/L	0.44 NTU	158.4 mV	38.60 ft	250.00 ml/min
2/1/2024 11:25 AM	25:00	5.16 pH	18.55 °C	1,682.4 µS/cm	0.50 mg/L	0.65 NTU	156.9 mV	38.60 ft	250.00 ml/min
2/1/2024 11:30 AM	30:00	5.16 pH	18.68 °C	1,684.8 µS/cm	0.39 mg/L	0.34 NTU	154.3 mV	38.60 ft	250.00 ml/min
2/1/2024 11:35 AM	35:00	5.16 pH	18.73 °C	1,688.0 µS/cm	0.37 mg/L	0.57 NTU	152.4 mV	38.60 ft	250.00 ml/min
2/1/2024 11:40 AM	40:00	5.16 pH	18.59 °C	1,690.8 µS/cm	0.33 mg/L	0.73 NTU	150.1 mV	38.60 ft	250.00 ml/min
2/1/2024 11:45 AM	45:00	5.16 pH	18.95 °C	1,685.8 µS/cm	0.30 mg/L	0.40 NTU	148.4 mV	38.60 ft	250.00 ml/min
2/1/2024 11:50 AM	50:00	5.15 pH	18.66 °C	1,694.8 µS/cm	0.30 mg/L	0.34 NTU	146.3 mV	38.60 ft	250.00 ml/min
2/1/2024 11:55 AM	55:00	5.15 pH	18.79 °C	1,697.7 µS/cm	0.30 mg/L	0.37 NTU	145.0 mV	38.60 ft	250.00 ml/min
2/1/2024 12:00 PM	01:00:00	5.14 pH	19.04 °C	1,701.3 µS/cm	0.27 mg/L	0.53 NTU	143.1 mV	38.60 ft	250.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 2/1/2024 9:20:23 AM
Project: Plant Branch Ash Ponds
Operator Name: A. Schnittker

Location Name: BRGWC-52I **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 66.6 ft** **Total Depth: 76.6 ft** **Initial Depth to Water: 40.27 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 71 ft** **Estimated Total Volume Pumped: 13.8 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 250 ml/min** **Final Draw Down: 9 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080307**

Test Notes:
Sample time 1015. Sunny 40s. FD-02 here.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
2/1/2024 9:20 AM	00:00	7.51 pH	14.66 °C	318.24 µS/cm	5.28 mg/L	2.37 NTU	-30.7 mV	40.27 ft	250.00 ml/min
2/1/2024 9:25 AM	05:00	10.63 pH	17.41 °C	284.45 µS/cm	2.53 mg/L	1.74 NTU	-39.5 mV	41.00 ft	250.00 ml/min
2/1/2024 9:30 AM	10:00	10.52 pH	17.76 °C	279.23 µS/cm	1.92 mg/L	1.66 NTU	-30.1 mV	41.00 ft	250.00 ml/min
2/1/2024 9:35 AM	15:00	8.70 pH	17.62 °C	300.15 µS/cm	1.01 mg/L	1.86 NTU	-191.0 mV	41.00 ft	250.00 ml/min
2/1/2024 9:40 AM	20:00	7.05 pH	17.63 °C	309.66 µS/cm	0.72 mg/L	1.45 NTU	-30.1 mV	41.00 ft	250.00 ml/min
2/1/2024 9:45 AM	25:00	6.68 pH	17.67 °C	316.99 µS/cm	0.59 mg/L	1.03 NTU	-13.6 mV	41.00 ft	250.00 ml/min
2/1/2024 9:50 AM	30:00	6.59 pH	16.94 °C	317.71 µS/cm	0.63 mg/L	0.99 NTU	-6.6 mV	41.00 ft	250.00 ml/min
2/1/2024 9:55 AM	35:00	6.54 pH	17.27 °C	325.33 µS/cm	0.65 mg/L	0.54 NTU	-16.0 mV	41.00 ft	250.00 ml/min
2/1/2024 10:00 AM	40:00	6.43 pH	17.68 °C	329.54 µS/cm	0.47 mg/L	0.43 NTU	5.4 mV	41.00 ft	250.00 ml/min
2/1/2024 10:05 AM	45:00	6.39 pH	17.83 °C	331.82 µS/cm	0.41 mg/L	0.34 NTU	6.2 mV	41.00 ft	250.00 ml/min
2/1/2024 10:10 AM	50:00	6.33 pH	17.75 °C	329.88 µS/cm	0.39 mg/L	0.42 NTU	9.3 mV	41.00 ft	250.00 ml/min
2/1/2024 10:15 AM	55:00	6.30 pH	17.85 °C	328.90 µS/cm	0.36 mg/L	0.37 NTU	11.8 mV	41.00 ft	250.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 1/30/2024 3:50:04 PM
Project: Plant Branch Ash Ponds
Operator Name: J. Berisford

Location Name: PZ-44 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 49.1 ft** **Total Depth: 59.54 ft** **Initial Depth to Water: 30.12 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 54 ft** **Estimated Total Volume Pumped: 7.5 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 250 ml/min** **Final Draw Down: 4.5 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850762**

Test Notes:
Sunny ,sample time-1620, FD-01 here. Fe2+= 0.0 mg/L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
1/30/2024 3:50 PM	00:00	6.67 pH	22.76 °C	274.54 µS/cm	7.37 mg/L	5.07 NTU	57.6 mV	30.12 ft	250.00 ml/min
1/30/2024 3:55 PM	05:00	6.19 pH	19.87 °C	215.20 µS/cm	1.75 mg/L	4.31 NTU	82.1 mV	30.40 ft	250.00 ml/min
1/30/2024 4:00 PM	10:00	6.17 pH	19.79 °C	215.03 µS/cm	0.59 mg/L	4.41 NTU	97.4 mV	30.40 ft	250.00 ml/min
1/30/2024 4:05 PM	15:00	6.17 pH	19.70 °C	214.72 µS/cm	0.27 mg/L	2.98 NTU	115.1 mV	30.50 ft	250.00 ml/min
1/30/2024 4:10 PM	20:00	6.17 pH	19.70 °C	214.30 µS/cm	0.21 mg/L	1.49 NTU	144.3 mV	30.50 ft	250.00 ml/min
1/30/2024 4:15 PM	25:00	6.17 pH	19.63 °C	214.47 µS/cm	0.17 mg/L	1.17 NTU	134.1 mV	30.50 ft	250.00 ml/min
1/30/2024 4:20 PM	30:00	6.18 pH	19.57 °C	214.55 µS/cm	0.15 mg/L	1.08 NTU	139.2 mV	30.50 ft	250.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 1/31/2024 11:25:21 AM
Project: Plant Branch Ash Ponds
Operator Name: J. Berisford

Location Name: PZ-50D **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 98.6 ft** **Total Depth: 108.54 ft** **Initial Depth to Water: 38.56 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 103 ft** **Estimated Total Volume Pumped: 55.5 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 62.64 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850762**

Test Notes:
Well purged dry, no sample collected. Allow for overnight recharge

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
1/31/2024 11:25 AM	00:00	4.55 pH	17.97 °C	0.33 µS/cm	9.49 mg/L	10.00 NTU	119.3 mV	38.56 ft	100.00 ml/min
1/31/2024 11:30 AM	05:00	6.04 pH	18.10 °C	1,301.0 µS/cm	2.51 mg/L	11.00 NTU	53.5 mV	39.60 ft	100.00 ml/min
1/31/2024 11:35 AM	10:00	6.09 pH	18.64 °C	1,360.4 µS/cm	0.44 mg/L	10.00 NTU	15.0 mV	40.80 ft	100.00 ml/min
1/31/2024 11:40 AM	15:00	6.09 pH	19.70 °C	1,295.1 µS/cm	0.15 mg/L	3.15 NTU	-1.7 mV	41.50 ft	100.00 ml/min
1/31/2024 11:45 AM	20:00	6.10 pH	18.89 °C	1,299.1 µS/cm	0.71 mg/L	1.49 NTU	-9.4 mV	42.00 ft	100.00 ml/min
1/31/2024 11:50 AM	25:00	6.13 pH	17.39 °C	1,247.6 µS/cm	1.22 mg/L	1.77 NTU	-13.0 mV	43.60 ft	200.00 ml/min
1/31/2024 11:55 AM	30:00	6.16 pH	18.95 °C	1,237.4 µS/cm	0.39 mg/L	1.93 NTU	-29.4 mV	45.00 ft	200.00 ml/min
1/31/2024 12:00 PM	35:00	6.20 pH	19.04 °C	1,225.6 µS/cm	0.32 mg/L	1.66 NTU	-41.9 mV	46.10 ft	200.00 ml/min
1/31/2024 12:05 PM	40:00	6.21 pH	18.95 °C	1,224.4 µS/cm	0.33 mg/L	1.52 NTU	-51.0 mV	47.80 ft	200.00 ml/min
1/31/2024 12:10 PM	45:00	6.21 pH	19.04 °C	1,225.5 µS/cm	0.24 mg/L	1.38 NTU	-56.6 mV	49.30 ft	200.00 ml/min
1/31/2024 12:15 PM	50:00	6.22 pH	19.13 °C	1,228.0 µS/cm	0.20 mg/L	1.22 NTU	-60.1 mV	50.60 ft	200.00 ml/min
1/31/2024 12:20 PM	55:00	6.23 pH	18.90 °C	1,227.3 µS/cm	0.19 mg/L	1.36 NTU	-61.5 mV	52.10 ft	200.00 ml/min
1/31/2024 12:25 PM	01:00:00	6.22 pH	19.02 °C	1,226.7 µS/cm	0.19 mg/L	1.22 NTU	-63.2 mV	53.80 ft	200.00 ml/min
1/31/2024 12:30 PM	01:05:00	6.22 pH	19.30 °C	1,228.8 µS/cm	0.14 mg/L	1.37 NTU	-64.4 mV	54.90 ft	200.00 ml/min

1/31/2024 12:35 PM	01:10:00	6.23 pH	19.39 °C	1,220.6 µS/cm	0.16 mg/L	1.11 NTU	-54.4 mV	55.40 ft	200.00 ml/min
1/31/2024 12:40 PM	01:15:00	6.22 pH	18.41 °C	1,242.2 µS/cm	0.67 mg/L	1.09 NTU	-55.7 mV	56.30 ft	200.00 ml/min
1/31/2024 12:45 PM	01:20:00	6.22 pH	19.62 °C	1,224.8 µS/cm	0.43 mg/L	1.01 NTU	-59.0 mV	57.20 ft	200.00 ml/min
1/31/2024 12:50 PM	01:25:00	6.22 pH	20.97 °C	1,217.8 µS/cm	0.37 mg/L	1.23 NTU	-61.6 mV	58.50 ft	200.00 ml/min
1/31/2024 12:55 PM	01:30:00	6.21 pH	20.39 °C	1,237.6 µS/cm	0.83 mg/L	2.09 NTU	-56.8 mV	59.60 ft	200.00 ml/min
1/31/2024 1:00 PM	01:35:00	6.22 pH	19.95 °C	1,227.3 µS/cm	1.20 mg/L	1.01 NTU	-73.7 mV	60.30 ft	200.00 ml/min
1/31/2024 1:05 PM	01:40:00	6.22 pH	20.24 °C	1,220.1 µS/cm	0.54 mg/L	1.22 NTU	-57.0 mV	61.50 ft	200.00 ml/min
1/31/2024 1:10 PM	01:45:00	6.22 pH	20.57 °C	1,219.7 µS/cm	0.43 mg/L	1.31 NTU	-57.5 mV	62.10 ft	200.00 ml/min
1/31/2024 1:15 PM	01:50:00	6.22 pH	20.46 °C	1,222.8 µS/cm	0.31 mg/L	1.44 NTU	-57.4 mV	63.00 ft	200.00 ml/min
1/31/2024 1:20 PM	01:55:00	6.22 pH	19.66 °C	1,222.8 µS/cm	0.32 mg/L	1.11 NTU	-54.6 mV	64.10 ft	200.00 ml/min
1/31/2024 1:25 PM	02:00:00	6.24 pH	19.66 °C	1,219.2 µS/cm	0.55 mg/L	3.32 NTU	-48.0 mV	65.30 ft	200.00 ml/min
1/31/2024 1:30 PM	02:05:00	6.29 pH	20.57 °C	1,216.7 µS/cm	1.54 mg/L	3.10 NTU	-50.1 mV	66.20 ft	200.00 ml/min
1/31/2024 1:35 PM	02:10:00	6.36 pH	20.48 °C	1,216.8 µS/cm	2.66 mg/L	2.90 NTU	-32.2 mV	67.40 ft	200.00 ml/min
1/31/2024 1:40 PM	02:15:00	6.41 pH	20.53 °C	1,220.1 µS/cm	3.41 mg/L	2.96 NTU	-9.7 mV	68.60 ft	200.00 ml/min
1/31/2024 1:45 PM	02:20:00	4.33 pH	23.52 °C	1.72 µS/cm	8.61 mg/L	1.60 NTU	106.6 mV	69.70 ft	200.00 ml/min
1/31/2024 1:50 PM	02:25:00	6.41 pH	25.31 °C	579.61 µS/cm	8.30 mg/L	2.77 NTU	-7.0 mV	70.90 ft	200.00 ml/min
1/31/2024 1:55 PM	02:30:00	6.43 pH	24.85 °C	1,196.7 µS/cm	8.29 mg/L	1.93 NTU	0.9 mV	71.40 ft	200.00 ml/min
1/31/2024 2:00 PM	02:35:00	6.45 pH	21.82 °C	1,236.1 µS/cm	4.14 mg/L	2.07 NTU	0.9 mV	72.00 ft	200.00 ml/min
1/31/2024 2:05 PM	02:40:00	6.36 pH	20.33 °C	1,249.8 µS/cm	3.81 mg/L	3.06 NTU	-21.3 mV	73.20 ft	200.00 ml/min
1/31/2024 2:10 PM	02:45:00	6.45 pH	20.19 °C	1,231.7 µS/cm	4.32 mg/L	3.44 NTU	3.0 mV	74.40 ft	200.00 ml/min
1/31/2024 2:15 PM	02:50:00	6.47 pH	20.46 °C	1,235.6 µS/cm	4.37 mg/L	4.21 NTU	4.4 mV	75.60 ft	200.00 ml/min
1/31/2024 2:20 PM	02:55:00	6.49 pH	19.47 °C	1,238.8 µS/cm	4.59 mg/L	2.79 NTU	5.8 mV	76.50 ft	200.00 ml/min
1/31/2024 2:25 PM	03:00:00	6.50 pH	20.27 °C	1,242.8 µS/cm	4.92 mg/L	2.21 NTU	5.7 mV	77.60 ft	200.00 ml/min
1/31/2024 2:30 PM	03:05:00	6.83 pH	23.90 °C	1.06 µS/cm	8.64 mg/L	2.73 NTU	20.6 mV	78.90 ft	200.00 ml/min
1/31/2024 2:35 PM	03:10:00	6.56 pH	21.14 °C	1,209.4 µS/cm	5.26 mg/L	2.81 NTU	13.2 mV	79.00 ft	200.00 ml/min
1/31/2024 2:40 PM	03:15:00	6.50 pH	19.97 °C	1,244.9 µS/cm	5.28 mg/L	3.88 NTU	2.9 mV	80.10 ft	200.00 ml/min
1/31/2024 2:45 PM	03:20:00	6.54 pH	20.11 °C	1,246.2 µS/cm	5.66 mg/L	2.46 NTU	6.5 mV	81.30 ft	200.00 ml/min
1/31/2024 2:50 PM	03:25:00	6.54 pH	19.93 °C	1,247.5 µS/cm	5.67 mg/L	2.17 NTU	7.4 mV	82.20 ft	200.00 ml/min
1/31/2024 2:55 PM	03:30:00	6.55 pH	20.15 °C	1,250.9 µS/cm	5.78 mg/L	2.22 NTU	7.3 mV	83.30 ft	200.00 ml/min

1/31/2024 3:00 PM	03:35:00	6.56 pH	20.24 °C	1,257.1 µS/cm	6.04 mg/L	3.91 NTU	6.9 mV	84.50 ft	200.00 ml/min
1/31/2024 3:05 PM	03:40:00	6.57 pH	20.20 °C	1,259.4 µS/cm	6.25 mg/L	2.44 NTU	6.6 mV	85.40 ft	200.00 ml/min
1/31/2024 3:10 PM	03:45:00	6.57 pH	20.28 °C	1,263.3 µS/cm	6.34 mg/L	2.63 NTU	6.6 mV	86.70 ft	200.00 ml/min
1/31/2024 3:15 PM	03:50:00	6.57 pH	20.38 °C	1,266.8 µS/cm	6.47 mg/L	1.99 NTU	7.3 mV	87.80 ft	200.00 ml/min
1/31/2024 3:20 PM	03:55:00	6.57 pH	20.46 °C	1,267.7 µS/cm	6.49 mg/L	1.89 NTU	6.9 mV	89.00 ft	200.00 ml/min
1/31/2024 3:25 PM	04:00:00	6.57 pH	20.39 °C	1,270.4 µS/cm	6.58 mg/L	2.94 NTU	7.6 mV	90.20 ft	200.00 ml/min
1/31/2024 3:30 PM	04:05:00	6.57 pH	20.28 °C	1,274.9 µS/cm	6.51 mg/L	2.06 NTU	8.3 mV	91.10 ft	200.00 ml/min
1/31/2024 3:35 PM	04:10:00	6.56 pH	20.28 °C	1,276.0 µS/cm	6.52 mg/L	1.78 NTU	9.2 mV	92.30 ft	200.00 ml/min
1/31/2024 3:40 PM	04:15:00	6.56 pH	20.24 °C	1,277.3 µS/cm	6.49 mg/L	2.23 NTU	10.3 mV	93.50 ft	200.00 ml/min
1/31/2024 3:45 PM	04:20:00	6.55 pH	20.16 °C	1,283.2 µS/cm	6.52 mg/L	2.85 NTU	10.2 mV	94.70 ft	200.00 ml/min
1/31/2024 3:50 PM	04:25:00	6.55 pH	20.04 °C	1,285.7 µS/cm	6.64 mg/L	2.75 NTU	10.7 mV	95.90 ft	200.00 ml/min
1/31/2024 3:55 PM	04:30:00	6.55 pH	19.97 °C	1,289.7 µS/cm	7.13 mg/L	2.55 NTU	11.2 mV	97.00 ft	200.00 ml/min
1/31/2024 4:00 PM	04:35:00	6.52 pH	19.93 °C	1,309.0 µS/cm	6.76 mg/L	2.68 NTU	10.5 mV	98.20 ft	200.00 ml/min
1/31/2024 4:05 PM	04:40:00	6.44 pH	21.08 °C	1,331.6 µS/cm	5.71 mg/L	3.11 NTU	8.6 mV	99.50 ft	200.00 ml/min
1/31/2024 4:10 PM	04:45:00	6.44 pH	22.56 °C	1,329.0 µS/cm	5.43 mg/L	3.05 NTU	7.5 mV	100.60 ft	200.00 ml/min
1/31/2024 4:15 PM	04:50:00	6.31 pH	19.93 °C	1,356.6 µS/cm	4.13 mg/L	3.68 NTU	-11.5 mV	101.20 ft	200.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 2/1/2024 9:50:09 AM
Project: Plant Branch Ash Ponds
Operator Name: J. Berisford

Location Name: PZ-50D **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 98.6 ft** **Total Depth: 108.54 ft** **Initial Depth to Water: 72.19 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 103 ft** **Estimated Total Volume Pumped: 2.5 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 100 ml/min** **Final Draw Down: 43.32 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850762**

Test Notes:
Well purged dry 1/31/24. Allowed for overnight recharge. Sample time-1015. Fe2+= 3.5 mg/L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
2/1/2024 9:50 AM	00:00	6.64 pH	10.54 °C	9.43 µS/cm	10.76 mg/L	3.45 NTU	201.1 mV	72.19 ft	100.00 ml/min
2/1/2024 9:55 AM	05:00	6.21 pH	14.61 °C	1,244.8 µS/cm	4.63 mg/L	2.06 NTU	69.3 mV	73.00 ft	100.00 ml/min
2/1/2024 10:00 AM	10:00	6.17 pH	16.28 °C	1,170.6 µS/cm	2.19 mg/L	2.11 NTU	60.7 mV	73.70 ft	100.00 ml/min
2/1/2024 10:05 AM	15:00	6.15 pH	16.31 °C	1,169.4 µS/cm	1.62 mg/L	1.68 NTU	58.8 mV	74.40 ft	100.00 ml/min
2/1/2024 10:10 AM	20:00	6.16 pH	16.52 °C	1,170.6 µS/cm	1.57 mg/L	1.78 NTU	59.9 mV	75.10 ft	100.00 ml/min
2/1/2024 10:15 AM	25:00	6.16 pH	16.56 °C	1,174.3 µS/cm	1.58 mg/L	0.77 NTU	56.3 mV	75.80 ft	100.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 2/1/2024 9:31:15 AM
Project: Plant Branch Ash Ponds
Operator Name: Hunter Auld

Location Name: PZ-51D **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 98.63 ft** **Total Depth: 108.63 ft** **Initial Depth to Water: 40.62 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 104 ft** **Estimated Total Volume Pumped: 3.8 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 80 ml/min** **Final Draw Down: 44.2 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965658**

Test Notes:
Sample time 1011. Clear 40s. BRA-APBCD-EB-04 here at 1010.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
2/1/2024 9:31 AM	00:00	7.21 pH	14.71 °C	858.41 µS/cm	2.03 mg/L	5.00 NTU	143.0 mV	40.62 ft	100.00 ml/min
2/1/2024 9:36 AM	05:00	6.88 pH	16.51 °C	872.81 µS/cm	1.47 mg/L	2.80 NTU	120.9 mV	41.70 ft	100.00 ml/min
2/1/2024 9:41 AM	10:00	6.68 pH	16.84 °C	873.52 µS/cm	0.83 mg/L	2.40 NTU	109.5 mV	42.60 ft	100.00 ml/min
2/1/2024 9:46 AM	15:00	6.69 pH	17.41 °C	874.77 µS/cm	0.47 mg/L	1.70 NTU	100.9 mV	43.00 ft	100.00 ml/min
2/1/2024 9:51 AM	20:00	6.69 pH	17.37 °C	874.48 µS/cm	0.42 mg/L	2.30 NTU	94.2 mV	43.40 ft	100.00 ml/min
2/1/2024 9:56 AM	25:00	6.70 pH	17.88 °C	865.86 µS/cm	0.37 mg/L	2.00 NTU	88.4 mV	43.80 ft	100.00 ml/min
2/1/2024 10:01 AM	30:00	6.71 pH	17.85 °C	860.16 µS/cm	0.32 mg/L	1.90 NTU	83.2 mV	44.20 ft	80.00 ml/min
2/1/2024 10:06 AM	35:00	6.75 pH	17.90 °C	858.53 µS/cm	0.28 mg/L	1.70 NTU	77.8 mV	44.30 ft	80.00 ml/min
2/1/2024 10:11 AM	40:00	6.74 pH	17.59 °C	856.78 µS/cm	0.28 mg/L	1.60 NTU	74.3 mV	44.40 ft	80.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 2/1/2024 12:59:29 PM
Project: Plant Branch Ash Ponds
Operator Name: Hunter Auld

Location Name: PZ-51I **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 57.5 ft** **Total Depth: 67.5 ft** **Initial Depth to Water: 38.43 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 62 ft** **Estimated Total Volume Pumped: 7.5 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: 5.6 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965658**

Test Notes:
Sample time 1349. Clear, 50s.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
2/1/2024 12:59 PM	00:00	7.28 pH	39.95 °C	0.89 µS/cm	6.46 mg/L	5.00 NTU	98.1 mV	38.43 ft	150.00 ml/min
2/1/2024 1:04 PM	05:00	6.63 pH	20.85 °C	1,764.1 µS/cm	2.02 mg/L	1.80 NTU	53.7 mV	38.90 ft	150.00 ml/min
2/1/2024 1:09 PM	10:00	6.07 pH	20.22 °C	1,801.3 µS/cm	1.28 mg/L	1.90 NTU	53.9 mV	38.90 ft	150.00 ml/min
2/1/2024 1:14 PM	15:00	5.85 pH	20.08 °C	1,821.6 µS/cm	0.78 mg/L	1.80 NTU	55.9 mV	38.90 ft	150.00 ml/min
2/1/2024 1:19 PM	20:00	5.72 pH	20.06 °C	1,835.1 µS/cm	0.48 mg/L	1.70 NTU	59.1 mV	38.90 ft	150.00 ml/min
2/1/2024 1:24 PM	25:00	5.65 pH	20.07 °C	1,835.6 µS/cm	0.37 mg/L	1.70 NTU	63.0 mV	38.90 ft	150.00 ml/min
2/1/2024 1:29 PM	30:00	5.61 pH	20.02 °C	1,836.9 µS/cm	0.32 mg/L	1.50 NTU	67.0 mV	38.90 ft	150.00 ml/min
2/1/2024 1:34 PM	35:00	5.58 pH	20.08 °C	1,835.4 µS/cm	0.31 mg/L	1.40 NTU	70.8 mV	38.90 ft	150.00 ml/min
2/1/2024 1:39 PM	40:00	5.56 pH	20.01 °C	1,838.9 µS/cm	0.31 mg/L	1.45 NTU	74.2 mV	38.90 ft	150.00 ml/min
2/1/2024 1:44 PM	45:00	5.55 pH	20.08 °C	1,838.2 µS/cm	0.31 mg/L	0.90 NTU	77.1 mV	38.90 ft	150.00 ml/min
2/1/2024 1:49 PM	50:00	5.54 pH	20.03 °C	1,836.5 µS/cm	0.30 mg/L	0.70 NTU	79.9 mV	38.90 ft	150.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 2/1/2024 9:07:33 AM
Project: Plant Branch Ash Ponds
Operator Name: Taylor Goble

Location Name: PZ-58I **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 53.9 ft** **Total Depth: 63.9 ft** **Initial Depth to Water: 39.1 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 58 ft** **Estimated Total Volume Pumped: 16250 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 250 ml/min** **Final Draw Down: 0.04 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965678**

Test Notes:
Sampled at 1012. Clear 44 degrees.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
2/1/2024 9:07 AM	00:00	3.65 pH	16.96 °C	1,234.1 µS/cm	2.76 mg/L	1.87 NTU	132.4 mV	39.14 ft	250.00 ml/min
2/1/2024 9:12 AM	05:00	3.93 pH	18.17 °C	1,251.3 µS/cm	1.40 mg/L	1.27 NTU	132.0 mV	39.14 ft	250.00 ml/min
2/1/2024 9:17 AM	10:00	4.00 pH	18.53 °C	1,250.6 µS/cm	1.76 mg/L	1.12 NTU	131.0 mV	39.14 ft	250.00 ml/min
2/1/2024 9:22 AM	15:00	4.01 pH	18.63 °C	1,253.4 µS/cm	0.91 mg/L	1.03 NTU	131.6 mV	39.14 ft	250.00 ml/min
2/1/2024 9:27 AM	20:00	4.02 pH	18.61 °C	1,250.9 µS/cm	0.96 mg/L	0.96 NTU	132.1 mV	39.14 ft	250.00 ml/min
2/1/2024 9:32 AM	25:00	4.02 pH	18.64 °C	1,253.7 µS/cm	1.27 mg/L	0.92 NTU	132.7 mV	39.14 ft	250.00 ml/min
2/1/2024 9:37 AM	30:00	4.03 pH	18.88 °C	1,256.4 µS/cm	1.49 mg/L	0.87 NTU	133.3 mV	39.14 ft	250.00 ml/min
2/1/2024 9:42 AM	35:00	4.04 pH	17.92 °C	1,248.2 µS/cm	1.42 mg/L	0.65 NTU	134.2 mV	39.14 ft	250.00 ml/min
2/1/2024 9:47 AM	40:00	4.04 pH	17.63 °C	1,249.1 µS/cm	1.82 mg/L	0.58 NTU	135.1 mV	39.14 ft	250.00 ml/min
2/1/2024 9:52 AM	45:00	4.04 pH	17.68 °C	1,252.9 µS/cm	1.01 mg/L	0.63 NTU	135.7 mV	39.14 ft	250.00 ml/min
2/1/2024 9:57 AM	50:00	4.10 pH	17.42 °C	1,243.6 µS/cm	1.29 mg/L	0.71 NTU	134.1 mV	39.14 ft	250.00 ml/min
2/1/2024 10:02 AM	55:00	4.00 pH	15.43 °C	1,281.5 µS/cm	2.31 mg/L	0.66 NTU	139.0 mV	39.14 ft	250.00 ml/min
2/1/2024 10:07 AM	01:00:00	4.05 pH	17.54 °C	1,259.5 µS/cm	1.01 mg/L	0.50 NTU	137.6 mV	39.14 ft	250.00 ml/min
2/1/2024 10:12 AM	01:05:00	4.04 pH	17.69 °C	1,263.6 µS/cm	0.32 mg/L	0.46 NTU	138.3 mV	39.14 ft	250.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 2/1/2024 12:33:28 PM
Project: Plant Branch Ash Ponds
Operator Name: Taylor Goble

Location Name: PZ-60I **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 54.15 ft** **Total Depth: 64.15 ft** **Initial Depth to Water: 38.76 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 59 ft** **Estimated Total Volume Pumped: 10.4 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 260 ml/min** **Final Draw Down: 0.19 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965678**

Test Notes:
Sampled at 1313. APBCD-FD-03 taken here. Clear 57 degrees.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
2/1/2024 12:33 PM	00:00	5.56 pH	18.84 °C	1,883.8 µS/cm	4.72 mg/L	4.26 NTU	152.9 mV	38.95 ft	260.00 ml/min
2/1/2024 12:38 PM	05:00	4.88 pH	20.15 °C	1,937.4 µS/cm	0.97 mg/L	3.56 NTU	152.8 mV	38.95 ft	260.00 ml/min
2/1/2024 12:43 PM	10:00	4.82 pH	20.50 °C	1,947.1 µS/cm	0.79 mg/L	4.12 NTU	153.5 mV	38.95 ft	260.00 ml/min
2/1/2024 12:48 PM	15:00	4.77 pH	20.59 °C	1,951.0 µS/cm	0.42 mg/L	4.52 NTU	154.9 mV	38.95 ft	260.00 ml/min
2/1/2024 12:53 PM	20:00	4.75 pH	20.62 °C	1,945.2 µS/cm	0.30 mg/L	5.15 NTU	157.1 mV	38.95 ft	260.00 ml/min
2/1/2024 12:58 PM	25:00	4.75 pH	20.57 °C	1,947.6 µS/cm	0.24 mg/L	5.11 NTU	158.9 mV	38.95 ft	260.00 ml/min
2/1/2024 1:03 PM	30:00	4.75 pH	20.53 °C	1,948.9 µS/cm	0.24 mg/L	4.70 NTU	160.6 mV	38.95 ft	260.00 ml/min
2/1/2024 1:08 PM	35:00	4.74 pH	20.68 °C	1,947.0 µS/cm	0.23 mg/L	3.35 NTU	163.3 mV	38.95 ft	260.00 ml/min
2/1/2024 1:13 PM	40:00	4.75 pH	20.66 °C	1,947.0 µS/cm	0.25 mg/L	2.65 NTU	164.7 mV	38.95 ft	260.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 2/1/2024 11:03:28 AM
Project: Plant Branch Ash Ponds
Operator Name: Taylor Goble

Location Name: PZ-61I **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 66 ft** **Total Depth: 76 ft** **Initial Depth to Water: 47.7 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 71 ft** **Estimated Total Volume Pumped: 4500 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: 0.45 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965678**

Test Notes:
Sampled at 1133. Clear 50 degrees.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
2/1/2024 11:03 AM	00:00	5.31 pH	16.45 °C	1,397.8 µS/cm	4.94 mg/L	1.05 NTU	147.6 mV	48.15 ft	150.00 ml/min
2/1/2024 11:08 AM	05:00	5.29 pH	18.70 °C	1,588.6 µS/cm	1.02 mg/L	0.87 NTU	142.8 mV	48.15 ft	150.00 ml/min
2/1/2024 11:13 AM	10:00	5.26 pH	18.98 °C	1,595.8 µS/cm	0.34 mg/L	0.93 NTU	141.3 mV	48.15 ft	150.00 ml/min
2/1/2024 11:18 AM	15:00	5.26 pH	19.15 °C	1,594.4 µS/cm	0.25 mg/L	1.40 NTU	140.4 mV	48.15 ft	150.00 ml/min
2/1/2024 11:23 AM	20:00	5.26 pH	19.32 °C	1,594.0 µS/cm	0.23 mg/L	0.66 NTU	139.6 mV	48.15 ft	150.00 ml/min
2/1/2024 11:28 AM	25:00	5.26 pH	19.29 °C	1,599.4 µS/cm	0.23 mg/L	0.41 NTU	139.0 mV	48.15 ft	150.00 ml/min
2/1/2024 11:33 AM	30:00	5.26 pH	19.31 °C	1,599.7 µS/cm	0.23 mg/L	0.55 NTU	138.3 mV	48.15 ft	150.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 2/1/2024 1:30:06 PM
Project: Plant Branch Ash Ponds
Operator Name: A. Schnittker

Location Name: PZ-63I **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 49.21 ft** **Total Depth: 59.21 ft** **Initial Depth to Water: 39.51 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 54 ft** **Estimated Total Volume Pumped: 10 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 250 ml/min** **Final Draw Down: 11 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080307**

Test Notes:
Sample time 1410. Sunny 60s.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
2/1/2024 1:30 PM	00:00	6.14 pH	19.59 °C	485.16 µS/cm	4.26 mg/L	1.98 NTU	31.4 mV	39.51 ft	250.00 ml/min
2/1/2024 1:35 PM	05:00	5.95 pH	19.98 °C	500.16 µS/cm	3.14 mg/L	1.79 NTU	28.9 mV	40.40 ft	250.00 ml/min
2/1/2024 1:40 PM	10:00	5.80 pH	19.98 °C	482.01 µS/cm	1.56 mg/L	0.40 NTU	37.6 mV	40.40 ft	250.00 ml/min
2/1/2024 1:45 PM	15:00	5.77 pH	19.98 °C	479.70 µS/cm	1.19 mg/L	0.58 NTU	45.7 mV	40.40 ft	250.00 ml/min
2/1/2024 1:50 PM	20:00	5.75 pH	19.94 °C	479.55 µS/cm	1.09 mg/L	0.36 NTU	45.9 mV	40.40 ft	250.00 ml/min
2/1/2024 1:55 PM	25:00	5.73 pH	19.97 °C	480.96 µS/cm	1.04 mg/L	0.82 NTU	38.5 mV	40.40 ft	250.00 ml/min
2/1/2024 2:00 PM	30:00	5.71 pH	19.94 °C	480.71 µS/cm	0.95 mg/L	0.79 NTU	46.7 mV	40.40 ft	250.00 ml/min
2/1/2024 2:05 PM	35:00	5.70 pH	20.04 °C	482.58 µS/cm	0.89 mg/L	0.28 NTU	47.7 mV	40.40 ft	250.00 ml/min
2/1/2024 2:10 PM	40:00	5.70 pH	21.06 °C	497.98 µS/cm	0.99 mg/L	0.81 NTU	47.9 mV	40.40 ft	250.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 2/1/2024 11:05:18 AM
Project: Plant Branch Ash Ponds
Operator Name: A. Schnittker

Location Name: PZ-64I **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 61.82 ft** **Total Depth: 71.82 ft** **Initial Depth to Water: 38.85 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 66 ft** **Estimated Total Volume Pumped: 5.5 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 100 ml/min** **Final Draw Down: 37 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080307**

Test Notes:
Sample time 1200. Sunny 50s. FB-02 here at 1115.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
2/1/2024 11:05 AM	00:00	5.67 pH	18.48 °C	2,580.2 µS/cm	3.92 mg/L	15.80 NTU	63.4 mV	38.85 ft	100.00 ml/min
2/1/2024 11:10 AM	05:00	5.25 pH	18.49 °C	2,685.5 µS/cm	1.24 mg/L	16.20 NTU	132.0 mV	40.20 ft	100.00 ml/min
2/1/2024 11:15 AM	10:00	5.21 pH	18.40 °C	2,661.6 µS/cm	1.12 mg/L	14.70 NTU	131.7 mV	40.90 ft	100.00 ml/min
2/1/2024 11:20 AM	15:00	5.16 pH	18.40 °C	2,708.8 µS/cm	1.07 mg/L	13.10 NTU	131.0 mV	41.30 ft	100.00 ml/min
2/1/2024 11:25 AM	20:00	5.14 pH	18.39 °C	2,666.3 µS/cm	0.80 mg/L	8.63 NTU	128.2 mV	41.60 ft	100.00 ml/min
2/1/2024 11:30 AM	25:00	5.13 pH	18.37 °C	2,648.5 µS/cm	0.84 mg/L	8.14 NTU	126.1 mV	41.70 ft	100.00 ml/min
2/1/2024 11:35 AM	30:00	5.13 pH	18.47 °C	2,651.4 µS/cm	0.79 mg/L	6.13 NTU	86.0 mV	41.70 ft	100.00 ml/min
2/1/2024 11:40 AM	35:00	5.13 pH	18.16 °C	2,657.2 µS/cm	0.72 mg/L	5.39 NTU	84.2 mV	41.80 ft	100.00 ml/min
2/1/2024 11:45 AM	40:00	5.13 pH	18.02 °C	2,653.7 µS/cm	0.70 mg/L	3.98 NTU	82.5 mV	41.80 ft	100.00 ml/min
2/1/2024 11:50 AM	45:00	5.13 pH	17.91 °C	2,646.6 µS/cm	0.53 mg/L	2.99 NTU	81.1 mV	41.90 ft	100.00 ml/min
2/1/2024 11:55 AM	50:00	5.13 pH	18.18 °C	2,634.4 µS/cm	0.48 mg/L	1.92 NTU	80.5 mV	41.90 ft	100.00 ml/min
2/1/2024 12:00 PM	55:00	5.13 pH	18.20 °C	2,631.1 µS/cm	0.40 mg/L	2.05 NTU	79.6 mV	41.90 ft	100.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 1/31/2024 9:51:40 AM
Project: Plant Branch Ash Ponds
Operator Name: J. Tracy

Location Name: PZ-68D **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 77 ft** **Total Depth: 87 ft** **Initial Depth to Water: 47.65 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 82 ft** **Estimated Total Volume Pumped: 45.09 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: 407.4 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 883546**

Test Notes:
Well purged dry. No sample collected

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
1/31/2024 9:51 AM	00:00	7.38 pH	13.96 °C	633.46 µS/cm	3.76 mg/L	4.00 NTU	143.6 mV	47.65 ft	50.00 ml/min
1/31/2024 9:56 AM	05:00	7.35 pH	14.78 °C	671.68 µS/cm	3.07 mg/L	3.15 NTU	131.7 mV	48.30 ft	50.00 ml/min
1/31/2024 10:01 AM	10:00	7.38 pH	15.62 °C	675.98 µS/cm	1.73 mg/L	2.96 NTU	124.7 mV	49.15 ft	50.00 ml/min
1/31/2024 10:06 AM	15:00	7.39 pH	15.48 °C	672.93 µS/cm	1.49 mg/L	3.54 NTU	125.4 mV	49.73 ft	50.00 ml/min
1/31/2024 10:11 AM	20:00	7.40 pH	15.71 °C	677.36 µS/cm	1.98 mg/L	5.65 NTU	122.5 mV	50.35 ft	50.00 ml/min
1/31/2024 10:16 AM	25:00	7.42 pH	15.95 °C	673.05 µS/cm	1.78 mg/L	2.97 NTU	121.3 mV	50.80 ft	50.00 ml/min
1/31/2024 10:21 AM	30:00	7.43 pH	16.02 °C	675.07 µS/cm	1.85 mg/L	3.99 NTU	119.1 mV	51.20 ft	50.00 ml/min
1/31/2024 10:26 AM	35:00	7.44 pH	15.98 °C	681.28 µS/cm	1.42 mg/L	3.63 NTU	118.5 mV	51.65 ft	150.00 ml/min
1/31/2024 10:31 AM	40:00	7.42 pH	17.10 °C	683.63 µS/cm	1.15 mg/L	3.42 NTU	116.6 mV	53.20 ft	150.00 ml/min
1/31/2024 10:36 AM	45:00	7.42 pH	17.64 °C	649.66 µS/cm	1.03 mg/L	3.62 NTU	115.5 mV	54.40 ft	150.00 ml/min
1/31/2024 10:41 AM	50:00	7.41 pH	17.71 °C	620.67 µS/cm	1.08 mg/L	3.23 NTU	117.7 mV	55.00 ft	150.00 ml/min
1/31/2024 10:46 AM	55:00	7.39 pH	17.61 °C	617.93 µS/cm	1.31 mg/L	3.74 NTU	122.0 mV	56.00 ft	150.00 ml/min
1/31/2024 10:51 AM	01:00:00	7.40 pH	17.77 °C	609.97 µS/cm	1.35 mg/L	3.51 NTU	123.1 mV	56.60 ft	150.00 ml/min
1/31/2024 10:56 AM	01:05:00	7.39 pH	17.69 °C	610.17 µS/cm	0.98 mg/L	3.61 NTU	124.0 mV	57.20 ft	150.00 ml/min

1/31/2024 11:01 AM	01:10:00	7.39 pH	18.03 °C	605.84 µS/cm	0.70 mg/L	4.20 NTU	125.1 mV	58.40 ft	150.00 ml/min
1/31/2024 11:06 AM	01:15:00	7.39 pH	17.87 °C	604.82 µS/cm	0.51 mg/L	4.13 NTU	126.3 mV	59.20 ft	150.00 ml/min
1/31/2024 11:11 AM	01:20:00	7.39 pH	17.88 °C	606.06 µS/cm	0.40 mg/L	4.06 NTU	126.0 mV	60.40 ft	150.00 ml/min
1/31/2024 11:16 AM	01:25:00	7.39 pH	18.06 °C	605.95 µS/cm	0.36 mg/L	3.97 NTU	126.7 mV	61.20 ft	150.00 ml/min
1/31/2024 11:21 AM	01:30:00	7.39 pH	18.23 °C	604.82 µS/cm	0.33 mg/L	3.42 NTU	125.9 mV	62.10 ft	150.00 ml/min
1/31/2024 11:26 AM	01:35:00	7.39 pH	18.32 °C	603.76 µS/cm	0.31 mg/L	3.23 NTU	125.8 mV	62.60 ft	150.00 ml/min
1/31/2024 11:31 AM	01:40:00	7.37 pH	18.70 °C	606.64 µS/cm	0.80 mg/L	3.15 NTU	127.1 mV	63.10 ft	150.00 ml/min
1/31/2024 11:36 AM	01:45:00	7.39 pH	18.54 °C	600.11 µS/cm	1.87 mg/L	3.26 NTU	127.8 mV	63.80 ft	150.00 ml/min
1/31/2024 11:37 AM	01:46:02	7.39 pH	18.54 °C	600.43 µS/cm	1.42 mg/L	3.18 NTU	127.4 mV	64.34 ft	150.00 ml/min
1/31/2024 11:42 AM	01:51:02	7.39 pH	18.66 °C	602.21 µS/cm	1.28 mg/L	2.85 NTU	128.1 mV	65.60 ft	150.00 ml/min
1/31/2024 11:47 AM	01:56:02	7.37 pH	18.46 °C	604.75 µS/cm	1.75 mg/L	3.28 NTU	130.5 mV	66.70 ft	150.00 ml/min
1/31/2024 11:52 AM	02:01:02	7.38 pH	18.65 °C	603.76 µS/cm	1.13 mg/L	3.16 NTU	131.8 mV	66.40 ft	150.00 ml/min
1/31/2024 11:57 AM	02:06:02	7.38 pH	18.58 °C	593.65 µS/cm	1.01 mg/L	3.25 NTU	134.1 mV	66.20 ft	150.00 ml/min
1/31/2024 12:02 PM	02:11:02	7.37 pH	20.08 °C	605.50 µS/cm	1.10 mg/L	3.16 NTU	136.4 mV	66.00 ft	150.00 ml/min
1/31/2024 12:07 PM	02:16:02	7.38 pH	18.69 °C	602.51 µS/cm	1.54 mg/L	2.85 NTU	135.0 mV	66.40 ft	150.00 ml/min
1/31/2024 12:12 PM	02:21:02	7.38 pH	18.17 °C	601.53 µS/cm	1.16 mg/L	2.97 NTU	136.6 mV	66.70 ft	150.00 ml/min
1/31/2024 12:17 PM	02:26:02	7.38 pH	18.50 °C	612.87 µS/cm	0.95 mg/L	2.99 NTU	136.2 mV	67.00 ft	150.00 ml/min
1/31/2024 12:22 PM	02:31:02	7.38 pH	18.94 °C	611.07 µS/cm	0.85 mg/L	3.04 NTU	135.6 mV	67.40 ft	150.00 ml/min
1/31/2024 12:27 PM	02:36:02	7.38 pH	18.95 °C	612.46 µS/cm	0.74 mg/L	3.24 NTU	134.3 mV	68.25 ft	150.00 ml/min
1/31/2024 12:32 PM	02:41:02	7.38 pH	18.99 °C	611.96 µS/cm	0.62 mg/L	3.42 NTU	132.7 mV	69.00 ft	150.00 ml/min
1/31/2024 12:37 PM	02:46:02	7.38 pH	18.85 °C	609.70 µS/cm	0.52 mg/L	3.64 NTU	131.5 mV	69.80 ft	150.00 ml/min
1/31/2024 12:42 PM	02:51:02	7.38 pH	19.12 °C	608.12 µS/cm	0.46 mg/L	4.26 NTU	131.7 mV	70.60 ft	150.00 ml/min
1/31/2024 12:47 PM	02:56:02	7.39 pH	18.90 °C	610.22 µS/cm	0.46 mg/L	4.69 NTU	131.2 mV	71.30 ft	150.00 ml/min
1/31/2024 12:52 PM	03:01:02	7.38 pH	19.50 °C	607.40 µS/cm	0.46 mg/L	4.80 NTU	131.9 mV	71.90 ft	0.00 ml/min
1/31/2024 12:57 PM	03:06:02	7.36 pH	21.03 °C	615.39 µS/cm	0.47 mg/L	4.93 NTU	134.2 mV	71.90 ft	0.00 ml/min
1/31/2024 1:02 PM	03:11:02	7.40 pH	19.57 °C	587.04 µS/cm	1.60 mg/L	5.02 NTU	135.8 mV	71.90 ft	150.00 ml/min
1/31/2024 1:07 PM	03:16:02	7.38 pH	19.42 °C	613.40 µS/cm	1.16 mg/L	5.12 NTU	132.8 mV	72.20 ft	150.00 ml/min
1/31/2024 1:12 PM	03:21:02	7.39 pH	19.73 °C	612.72 µS/cm	0.91 mg/L	5.23 NTU	131.2 mV	73.20 ft	150.00 ml/min
1/31/2024 1:17 PM	03:26:02	7.39 pH	18.56 °C	610.81 µS/cm	0.78 mg/L	5.32 NTU	131.5 mV	74.20 ft	150.00 ml/min

1/31/2024 1:20 PM	03:28:28	7.39 pH	19.31 °C	612.23 µS/cm	0.76 mg/L	5.44 NTU	130.3 mV	74.40 ft	150.00 ml/min
1/31/2024 1:21 PM	03:29:30	7.38 pH	19.56 °C	611.52 µS/cm	0.73 mg/L	5.26 NTU	129.9 mV	74.60 ft	150.00 ml/min
1/31/2024 1:26 PM	03:34:30	7.37 pH	19.96 °C	612.52 µS/cm	0.64 mg/L	5.46 NTU	130.6 mV	75.60 ft	150.00 ml/min
1/31/2024 1:31 PM	03:39:30	7.39 pH	18.10 °C	613.56 µS/cm	0.62 mg/L	5.53 NTU	132.5 mV	75.90 ft	150.00 ml/min
1/31/2024 1:36 PM	03:44:30	7.39 pH	17.43 °C	616.58 µS/cm	0.64 mg/L	5.60 NTU	132.7 mV	76.90 ft	150.00 ml/min
1/31/2024 1:41 PM	03:49:30	7.39 pH	17.42 °C	616.29 µS/cm	0.61 mg/L	5.54 NTU	133.1 mV	77.30 ft	150.00 ml/min
1/31/2024 1:46 PM	03:54:30	7.37 pH	18.77 °C	618.57 µS/cm	0.60 mg/L	5.47 NTU	131.6 mV	77.30 ft	150.00 ml/min
1/31/2024 1:51 PM	03:59:30	7.37 pH	19.52 °C	613.88 µS/cm	0.57 mg/L	5.43 NTU	131.6 mV	77.30 ft	150.00 ml/min
1/31/2024 1:56 PM	04:04:30	7.38 pH	18.72 °C	611.46 µS/cm	0.55 mg/L	4.59 NTU	131.9 mV	77.30 ft	150.00 ml/min
1/31/2024 2:01 PM	04:09:30	7.39 pH	17.43 °C	615.66 µS/cm	0.52 mg/L	4.74 NTU	130.6 mV	77.40 ft	150.00 ml/min
1/31/2024 2:06 PM	04:14:30	7.38 pH	18.56 °C	617.98 µS/cm	0.49 mg/L	4.83 NTU	125.3 mV	77.50 ft	150.00 ml/min
1/31/2024 2:11 PM	04:19:30	7.39 pH	19.30 °C	611.55 µS/cm	0.51 mg/L	4.95 NTU	121.6 mV	77.70 ft	150.00 ml/min
1/31/2024 2:16 PM	04:24:30	7.39 pH	19.38 °C	610.25 µS/cm	0.60 mg/L	4.82 NTU	117.9 mV	78.00 ft	150.00 ml/min
1/31/2024 2:21 PM	04:29:30	7.40 pH	18.19 °C	610.70 µS/cm	0.68 mg/L	4.64 NTU	117.4 mV	78.20 ft	150.00 ml/min
1/31/2024 2:26 PM	04:34:30	7.41 pH	17.47 °C	619.25 µS/cm	0.72 mg/L	4.53 NTU	118.3 mV	78.50 ft	150.00 ml/min
1/31/2024 2:31 PM	04:39:30	7.41 pH	18.77 °C	631.24 µS/cm	0.68 mg/L	4.44 NTU	116.3 mV	78.85 ft	150.00 ml/min
1/31/2024 2:36 PM	04:44:30	7.42 pH	19.04 °C	646.04 µS/cm	0.62 mg/L	3.80 NTU	115.3 mV	79.20 ft	150.00 ml/min
1/31/2024 2:41 PM	04:49:30	7.43 pH	19.41 °C	652.52 µS/cm	0.62 mg/L	3.22 NTU	115.8 mV	79.40 ft	150.00 ml/min
1/31/2024 2:46 PM	04:54:30	7.44 pH	19.35 °C	661.35 µS/cm	1.31 mg/L	3.34 NTU	115.3 mV	79.64 ft	150.00 ml/min
1/31/2024 2:51 PM	04:59:30	7.45 pH	19.55 °C	664.49 µS/cm	1.12 mg/L	3.48 NTU	114.4 mV	80.00 ft	150.00 ml/min
1/31/2024 2:56 PM	05:04:30	7.46 pH	19.66 °C	670.02 µS/cm	0.94 mg/L	3.24 NTU	115.3 mV	80.30 ft	150.00 ml/min
1/31/2024 3:01 PM	05:09:30	7.46 pH	19.39 °C	679.16 µS/cm	0.81 mg/L	3.36 NTU	115.4 mV	80.60 ft	150.00 ml/min
1/31/2024 3:05 PM	05:13:57	7.47 pH	19.58 °C	674.35 µS/cm	0.72 mg/L	3.42 NTU	115.6 mV	80.75 ft	150.00 ml/min
1/31/2024 3:10 PM	05:18:57	7.46 pH	19.48 °C	684.97 µS/cm	0.64 mg/L	3.53 NTU	116.7 mV	81.00 ft	150.00 ml/min
1/31/2024 3:15 PM	05:23:57	7.47 pH	19.62 °C	683.03 µS/cm	0.55 mg/L	3.56 NTU	116.0 mV	81.30 ft	150.00 ml/min
1/31/2024 3:20 PM	05:28:57	7.47 pH	19.60 °C	684.46 µS/cm	0.50 mg/L	3.54 NTU	114.8 mV	81.60 ft	150.00 ml/min
1/31/2024 3:25 PM	05:33:57	7.48 pH	19.30 °C	687.81 µS/cm	0.46 mg/L	3.63 NTU	114.8 mV	81.60 ft	150.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 2/1/2024 9:30:07 AM
Project: Plant Branch Ash Ponds
Operator Name: J. Tracy

Location Name: PZ-68D **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 77 ft** **Total Depth: 87 ft** **Initial Depth to Water: 51.03 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 82 ft** **Estimated Total Volume Pumped: 2.25 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: 45.24 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 883546**

Test Notes:
Sample time 945 weather is 43f and sunny

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
2/1/2024 9:30 AM	00:00	7.24 pH	13.65 °C	709.51 µS/cm	2.80 mg/L	7.10 NTU	201.5 mV	51.03 ft	150.00 ml/min
2/1/2024 9:35 AM	05:00	7.35 pH	15.32 °C	670.55 µS/cm	1.28 mg/L	4.54 NTU	187.6 mV	52.95 ft	150.00 ml/min
2/1/2024 9:40 AM	10:00	7.39 pH	15.41 °C	663.65 µS/cm	1.20 mg/L	5.71 NTU	211.8 mV	53.90 ft	150.00 ml/min
2/1/2024 9:45 AM	15:00	7.41 pH	15.57 °C	660.96 µS/cm	1.29 mg/L	6.12 NTU	212.0 mV	54.80 ft	150.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 2/1/2024 11:35:06 AM
Project: Plant Branch Ash Ponds
Operator Name: J. Tracy

Location Name: PZ-74I **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 40.88 ft** **Total Depth: 50.88 ft** **Initial Depth to Water: 28.3 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 45 ft** **Estimated Total Volume Pumped: 5 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 4.8 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 883546**

Test Notes:
Weather is 54 and sunny. Sample time is 1200

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
2/1/2024 11:35 AM	00:00	6.65 pH	17.70 °C	538.07 µS/cm	3.60 mg/L	6.38 NTU	221.1 mV	28.30 ft	200.00 ml/min
2/1/2024 11:40 AM	05:00	6.19 pH	17.46 °C	543.23 µS/cm	2.67 mg/L	6.56 NTU	203.1 mV	28.70 ft	200.00 ml/min
2/1/2024 11:45 AM	10:00	6.10 pH	17.43 °C	551.77 µS/cm	2.45 mg/L	4.50 NTU	224.6 mV	28.70 ft	200.00 ml/min
2/1/2024 11:50 AM	15:00	6.09 pH	17.49 °C	550.30 µS/cm	2.43 mg/L	3.42 NTU	218.0 mV	28.70 ft	200.00 ml/min
2/1/2024 11:55 AM	20:00	6.08 pH	17.63 °C	552.37 µS/cm	2.44 mg/L	2.58 NTU	207.5 mV	28.70 ft	200.00 ml/min
2/1/2024 12:00 PM	25:00	6.09 pH	17.71 °C	551.46 µS/cm	2.42 mg/L	3.15 NTU	221.3 mV	28.70 ft	200.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 2/1/2024 1:35:06 PM
Project: Plant Branch Ash Ponds
Operator Name: J. Tracy

Location Name: PZ-75I **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 20.38 ft** **Total Depth: 30.38 ft** **Initial Depth to Water: 17.35 ft**	**Pump Type: Peristaltic Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 25 ft** **Estimated Total Volume Pumped: 9 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 1.2 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 883546**

Test Notes:
Sample time is 1420 weather is sunny 58

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
2/1/2024 1:35 PM	00:00	6.06 pH	19.52 °C	497.48 µS/cm	2.27 mg/L	2.00 NTU	189.4 mV	17.35 ft	200.00 ml/min
2/1/2024 1:40 PM	05:00	5.97 pH	18.54 °C	512.69 µS/cm	1.72 mg/L	0.46 NTU	193.3 mV	17.45 ft	200.00 ml/min
2/1/2024 1:45 PM	10:00	5.86 pH	18.30 °C	516.43 µS/cm	1.65 mg/L	0.50 NTU	198.1 mV	17.45 ft	200.00 ml/min
2/1/2024 1:50 PM	15:00	5.79 pH	18.19 °C	515.86 µS/cm	1.85 mg/L	0.57 NTU	204.0 mV	17.45 ft	200.00 ml/min
2/1/2024 1:55 PM	20:00	5.85 pH	18.17 °C	514.23 µS/cm	1.90 mg/L	0.60 NTU	210.2 mV	17.45 ft	200.00 ml/min
2/1/2024 2:00 PM	25:00	5.70 pH	18.10 °C	514.30 µS/cm	1.90 mg/L	0.63 NTU	210.9 mV	17.45 ft	200.00 ml/min
2/1/2024 2:05 PM	30:00	5.81 pH	18.25 °C	513.11 µS/cm	1.90 mg/L	0.67 NTU	214.2 mV	17.45 ft	200.00 ml/min
2/1/2024 2:10 PM	35:00	5.93 pH	18.31 °C	512.93 µS/cm	1.94 mg/L	0.48 NTU	217.5 mV	17.45 ft	200.00 ml/min
2/1/2024 2:15 PM	40:00	5.85 pH	18.40 °C	513.75 µS/cm	1.96 mg/L	0.29 NTU	220.4 mV	17.45 ft	200.00 ml/min
2/1/2024 2:20 PM	45:00	5.92 pH	18.69 °C	510.24 µS/cm	1.96 mg/L	0.32 NTU	223.4 mV	17.45 ft	200.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Plant Branch Surface Water Samples 01/31/2024

Sample ID	Total Depth (ft)	Sample Depth (ft)	Time	Temp(°C)	pH	OPR (mV)	DO (mg/L)	Turbidity (NTU)	Conductance (mS/cm)	Coordinates
BRA-LR-1(surface)	50.5	Surface	1140	9.7	6.61	192.2	8.85	77.1	0.0642	33.178603, -83.317692
BRA-LR-1(mid)		25.3	1145	10.1	6.62	190.6	8.71	76.1	0.0649	
BRA-LR-1(bottom)		49.0	1150	9.6	6.63	191.3	9.30	76.0	0.0644	
BRA-LS+3A(surface)	10.3	Surface	1205	11.4	6.66	186.7	8.86	75.5	0.0673	33.185681, -83.311205
BRA-LS+3(surface)	17	Surface	1210	11.1	6.71	184.4	9.68	74.2	0.0671	33.185457, -83.311869
BRA-LS+3(mid)		8.5	1215	11.2	6.68	191.1	8.47	74.6	0.0673	
BRA-LR+8A(surface)	15.7	Surface	1110	10.6	6.51	185.2	8.94	82.7	0.0639	33.188793, -83.298479
BRA-LR+9A(surface)	17.5	Surface	1100	10.4	6.50	193.3	8.56	85.1	0.0611	33.190136, -83.297139
BRA-LR+8(surface)	30.7	Surface	1115	9.9	6.54	188.7	8.95	84.4	0.0607	33.187322, -83.296928
BRA-LR+8(mid)		15.3	1120	10.1	6.56	187.2	9.20	85.3	0.0608	
BRA-LR+8(bottom)		29.2	1125	10.1	6.57	178.7	8.94	84.2	0.0610	
BRA-LR+9(surface)	37.8	Surface	1040	9.8	6.43	206.2	9.24	85.7	0.0612	33.189500, -83.295199
BRA-LR+9(mid)		18.9	1045	10.0	6.47	194.1	8.66	86.0	0.0607	
BRA-LR+9(bottom)		36.3	1050	9.7	6.48	186.3	8.65	86.1	0.0603	
BRA-LR-10(surface)	30.8	Surface	1014	9.5	6.11	231.4	11.10	82.2	0.0629	33.188519, -83.284506
BRA-LR-10(mid)		15.4	1025	10.4	6.22	237.5	13.89	99.4	0.0894	
BRA-LR-10(bottom)		29.3	1030	10.0	6.40	212.5	9.49	83.4	0.0644	

Staff: SB/HA/AG/JS/AS | Date: 1/24/24 | Time (start/finish): 1230/1730

LANDFILL

Well-ID	Depth to Water	January 2023 Historical DTW	Total Depth (feet btoc)	Screen Interval (feet btoc)		Screen Length	Location	Has Dedicated Pump (Y/N) ID plate (Y/N)
BRLFC-01	12.01	11.76	35.1 32.4	24.6	34.6	10.0	Downgradient	Pump: N ID Plate: Y
BRLFC-02	16.51	16.78	54.5 54.85	43.5	53.5	10.0	Downgradient	Pump: N ID Plate: Y
BRLFC-03	2.81	2.65	42.8 41.85	32.3	42.3	10.0	Downgradient	Pump: N ID Plate: Y
BRLFC-04	15.72	17.21	50.0 50.25	39.5	49.5	10.0	Downgradient	Pump: N ID Plate: Y
BRLFC-05	12.98	12.82	43.3 43.34	32.8	42.8	10.0	Downgradient	Pump: N ID Plate: Y
BRLFC-06	13.83	12.41	50.5 50.71	40.0	50.0	10.0	Downgradient	Pump: N ID Plate: Y
BRLFC-07	21.45	16.97	53.9	43.4	53.4	10.0	Downgradient	Pump: Y ID Plate: Y
BRLFC-08	16.98	14.19	56.5 56.42	46.0	56.0	10.0	Downgradient	Pump: N ID Plate: Y
BRLFC-09	14.65	11.77	50.3 50.67	39.8	49.8	10.0	Downgradient	Pump: N ID Plate: Y
BRLFC-10	19.56	25.87 (Avg. 18.80)	~~60.8~~ 43.07	70.3	80.3	10.0	Downgradient	Pump: ID Plate:
BRLFC-11	21.43	34.90 (Avg. 21.88)	~~28.5~~ 40.98	18.4	28.4	10.0	Downgradient	Pump: ID Plate:
BRLFC-12	12.45	10.94	53.3 53.40	42.8	52.8	10.0	Downgradient	Pump: N ID Plate: N
BRLFC-13	18.91	17.55	49.7 50.51	39.2	49.2	10.0	Downgradient	Pump: N ID Plate: N
BRLFC-14	11.85	13.49	49.5 49.60	39.0	49.0	10.0	Downgradient	Pump: ID Plate:
BRLFC-15	28.16	28.40	35.3	24.8	34.8	10.0	Downgradient	Pump: ID Plate:
BRLFC-16	35.84	36.11	42.3	31.8	41.8	10.0	Downgradient	Pump: ID Plate:

Q&A

Quality Shared services

Funds flow legal

Deeds Review

Staff: JB/HA/TG/JST/AS

Date: 1/29/24

Time (start/finish): 12/30/1730

AP-BCD Detection Wells

Well-ID	Depth to Water	January 2023 Historical DTW	Total Depth (feet btoc)	Screen Interval (feet btoc)		Screen Length	Location	Has Dedicated Pump (Y/N) ID plate (Y/N)
BRGWA-2S	12.04 ~~10.15~~	10.42	47.4	37.0	47.0	10.0	Upgradient BCD & E	Pump: ~~Y~~ Y ID Plate: ~~Y~~ Y
BRGWA-2I	~~33.66~~	10.45	66.9	56.5	66.5	10.0	Upgradient BCD & E	Pump: ~~Y~~ Y ID Plate: Y Y
BRGWA-5S	11.86	12.53	43.1	32.7	42.7	10.0	Upgradient BCD & E	Pump: Y ID Plate: Y
BRGWA-5I	13.57	12.38	63.9	53.5	63.5	10.0	Upgradient BCD & E	Pump: Y ID Plate: Y
BRGWA-6S	13.43	25.73	52.9	42.5	52.5	10.0	Upgradient BCD & E	Pump: Y ID Plate: Y
BRGWA-23S	41.41	40.78	43.5	33.5	43.5	10.0	Upgradient BCD	Pump: Y ID Plate: Y
BRGWC-25I	11.83	10.18	22.9	12.9	22.9	10.0	Downgradient B	Pump: Y ID Plate: Y
BRGWC-27I	12.32	10.49	26.9	16.9	26.9	10.0	Downgradient C	Pump: Y ID Plate: Y
BRGWC-29I	10.63	9.91	22.6	12.6	22.6	10.0	Downgradient C	Pump: Y ID Plate: Y
BRGWC-30I	5.02	4.87	22.9	12.6	22.6	10.0	Downgradient D	Pump: Y ID Plate: Y ES
BRGWC-32S	41.76	42.26	47.8	37.8	47.8	10.0	Downgradient D	Pump: Y ID Plate: Y
BRGWC-45	14.90	10.93	60.0	49.6	59.6	10.0	Downgradient B	Pump: Y ID Plate: Y
BRGWC-47	29.65	28.83	94.4	84.0	94.0	10.0	Downgradient D	Pump: Y ID Plate: Y
BRGWC-50	38.48	38.21	67.6	57.2	67.2	10.0	Downgradient B	Pump: Y ID Plate: Y
BRGWC-52I	40.18	39.67	76.6	66.6	76.6	10.0	Downgradient B	Pump: Y ID Plate: Y

Staff: JD/HA/TG/ST/KS Date: 1/29/24 Time (start/finish): 1230 / 1730

AP-BCD Assessment Wells

Well-ID	Depth to Water	January 2023 Historical DTW	Total Depth (feet btoc)	Screen Interval (feet btoc)		Screen Length	Location	Has Dedicated Pump (Y/N) ID plate (Y/N)
PZ-44	30.11	27.78	59.5	49.1	59.1	10.0	Downgradient B	Pump: Y ID Plate: N
PZ-50D	38.66	38.67	108.5	98.6	108.6	10.0	Downgradient	Pump: ID Plate: Y
PZ-51S	38.51	38.77	47.8	42.4	47.4	5.0	Downgradient B	Pump: N ID Plate: Y
PZ-51I	38.38	38.15	67.5	57.4	67.4	10.0	Downgradient B	Pump: Y ID Plate: Y
PZ-51D	38.25	38.19	108.6	98.7	108.7	10.0	Downgradient B	Pump: Y ID Plate: N
PZ-57I	37.20	36.68	30.19 79.0	68.7	78.7	10.0	Downgradient B	Pump: N ID Plate: Y
PZ-58I	39.68	38.66	66.9	56.6	66.6	10.0	Downgradient B	Pump: Y ID Plate: Y
PZ-59I	40.46	40.08	69.80 69.6	60.0	70.0	10.0	Downgradient B	Pump: Y ID Plate: Y
PZ-60I	38.75	38.40	64.0	53.6	63.6	10.0	Downgradient B	Pump: Y ID Plate: Y
PZ-61I	47.44	47.27	78.9	68.6	78.6	10.0	Downgradient B	Pump: Y ID Plate: Y
PZ-62I	39.12	38.82	72.9	62.9	72.9	10.0	Downgradient B	Pump: N ID Plate: Y
PZ-63I	39.44	39.01	59.2	49.2	59.2	10.0	Downgradient B	Pump: Y ID Plate: Y
PZ-64I	38.85	38.64	71.8	61.3	71.3	10.0	Downgradient B	Pump: Y ID Plate: Y
PZ-65I	36.94	36.51	72.22 71.7	61.2	71.2	10.0	Downgradient B	Pump: N ID Plate: Y
PZ-66I	36.43	36.33	70.83 70.9	60.4	70.4	10.0	Downgradient B	Pump: N ID Plate: Y
PZ-68D	42.27	42.61	87.0	76.5	86.5	10.0	Downgradient D	Pump: Y ID Plate: Y
PZ-74I	28.40	28.17 (Recent Install)	50.9	40.6	50.6	10.0	Downgradient D	Pump: Y ID Plate: Y
PZ-75I	17.36	20.02 (Recent Install)	30.4 30.54	20.0	30.0	10.0	Downgradient D	Pump: N ID Plate: N
PZ-79I	8.36	18.69 (Recent Install)	18.7 19.28	8.6	18.7	10.0	Downgradient D	Pump: ID Plate:

Staff: TG | Date: 1-29-24 | Time (start/finish): 1400 / 1800

AP-E Detection Wells

Well-ID	Depth to Water	January 2023 Historical DTW	Total Depth (feet btoc)	Screen Interval (feet btoc)		Screen Length	Location	Has Dedicated Pump (Y/N) ID plate (Y/N)	
BRGWA-2S	12.04	10.42	47.4	37.0	47.0	10.0	Upgradient E	Pump: Yes ID Plate: Yes	
BRGWA-2I	11.86	10.45	66.9	56.5	66.5	10.0	Upgradient E	Pump: Yes ID Plate: Yes	
BRGWA-5S	13.57	12.53	43.1	32.7	42.7	10.0	Upgradient E	Pump: Yes ID Plate: Yes	
BRGWA-5I	13.43	12.38	63.9	53.5	63.5	10.0	Upgradient E	Pump: Yes ID Plate: Yes	
BRGWA-6S	27.61	25.73	52.9	42.5	52.5	10.0	Upgradient E	Pump: Yes ID Plate: Yes	
BRGWC-17S	5.91	5.55	10.2	4.8	9.8	5.0	Downgradient E	Pump: No ID Plate: Yes	9.25
BRGWC-33S	13.35	10.27	28.9	18.5	28.5	10.0	Downgradient E	Pump: Yes ID Plate: Yes	
BRGWC-34S	3.43	2.68	25.8	15.8	25.8	10.0	Downgradient E	Pump: Yes ID Plate: Yes	
BRGWC-35S	0.83	1.75	30.0	19.6	29.6	10.0	Downgradient E	Pump: Yes ID Plate: Yes	
BRGWC-36S	5.20	4.16	35.4	25.4	35.4	10.0	Downgradient E	Pump: No ID Plate: Yes	35.45
BRGWC-37S	54.60	54.02	66.2	56.3	66.3	10.0	Downgradient E	Pump: Yes ID Plate: Yes	
BRGWC-38S	24.63	22.56	40.6	30.2	40.2	10.0	Downgradient E	Pump: Yes ID Plate: Yes	

AP-E Assessment Wells

PZ-13S	30.09	28.41	38.2	27.8	37.8	10.0	Downgradient E	Pump: Yes ID Plate: Metal	
PZ-52D	25.47	35.43 (Avg. 16.05)	62.2	52.2	62.2	10.0	Downgradient E	Pump: Yes ID Plate: Metal	
PZ-53D	25.71	22.90	142.5	132.5	142.5	10.0	Downgradient E	Pump: Yes ID Plate: Yes	
PZ-70I	30.50	28.61	52.8	42.3	52.3	10.0	Downgradient E	Pump: Yes ID Plate: Yes	
PZ-76I	21.26	20.02 (Recent Install)	44.4	34.4	44.4	10.0	Downgradient E	Pump: No ID Plate: None	43.95
PZ-77I	20.49	18.69 (Recent Install)	42.7	32.7	42.7	10.0	Downgradient E	Pump: No ID Plate: None	43.06

Staff: TG

Date: 1-29-24

Time (start/finish): 1400/1800

Piezometers

Well-ID	Depth to Water	January 2023 Historical DTW	Total Depth (feet btoc)	Screen Interval (feet btoc)		Screen Length	Location	Has Dedicated Pump (Y/N) ID plate (Y/N)	TD
PZ-1S	41.25	40.09	67.7	57.3	67.3	10.0	Upgradient	Pump: No ID Plate: Metal	68.26
PZ-1I	42.98	41.38	82.3	71.9	81.9	10.0	Upgradient	Pump: Transducer / ID Plate: No Metal	83.03
PZ-1D	41.22	40.02	160.5	66.0	160.5	94.5	Upgradient	Pump: No ID Plate: Metal	161.22
PZ-3S	DRY	DRY	43.4	33.0	43.0	10.0	Upgradient	Pump: No ID Plate: Metal	42.63
PZ-3I	51.69	51.83	57.6	47.2	57.2	10.0	Upgradient	Pump: No ID Plate: Metal	57.99
PZ-3D	49.60	49.80	130.8	48.8	130.8	82.0	Upgradient	Pump: No ID Plate: Metal	130.20
PZ-4S	DRY	DRY (Avg. 32.59)	33.0	22.5	32.5	10.0	Upgradient	Pump: No ID Plate: Metal	33.18
PZ-4I	35.30	35.43	49.9	39.5	49.5	10.0	Upgradient	Pump: Transducer ID Plate: Metal	—
PZ-7S	31.14	29.37	47.1	36.7	46.7	10.0	Downgradient	Pump: No ID Plate: Metal	47.29
PZ-8S	27.82	25.52	52.1	41.7	51.7	10.0	Upgradient	Pump: No ID Plate: Metal	52.14
PZ-9S	37.04	36.71	51.2	40.8	50.8	10.0	Upgradient	Pump: No ID Plate: Metal	51.45
PZ-10S	29.12	27.56	41.9	31.5	41.5	10.0	Downgradient	Pump: Tag To Transducer ID Plate: Metal	42.30
PZ-14S	25.34	21.80	40.7	30.3	40.3	10.0	Downgradient	Pump: No ID Plate: Metal	40.62
PZ-14I	21.16	19.90	56.6	46.2	56.2	10.0	Downgradient	Pump: No ID Plate: Metal	56.61
PZ-15S	11.41	9.96	42.7	32.7	42.7	10.0	Downgradient	Pump: No ID Plate: Metal	42.43
PZ-15I	11.20	9.70	91.6	81.2	91.2	10.0	Downgradient	Pump: No ID Plate: Metal	91.66
PZ-16S	12.11	11.13	22.3	11.8	21.8	10.0	Downgradient	Pump: No ID Plate: Metal	23.15
PZ-16I	11.95	10.95	41.6	31.2	41.2	10.0	Downgradient	Pump: No ID Plate: Metal	42.60
PZ-17I	2.92	2.62	46.5	36.1	46.1	10.0	Downgradient	Pump: No ID Plate: Metal	29.54

Staff: JB/HA/TG/ST/KS | Date: 1/29/24 | Time (start/finish): 12/30/1730

Piezometers (continued)

Well ID	Depth to Water	January 2023 Historical DTW	Total Depth (feet btoc)	Screen Interval (feet btoc)		Screen Length	Location	Has Dedicated Pump (Y/N) ID plate (Y/N)
PZ-18S	20.92	21.30	27.3	17.8	27.8	10.0	Downgradient	Pump: N Transducer in well ID Plate: N
PZ-18I	20.73	21.06	41.4 / 42.37	31.3	41.3	10.0	Downgradient	Pump: N ID Plate: N
PZ-19S	16.34	18.25	31.0	20.6	30.6	10.0	Downgradient	Pump: N Transducer in well ID Plate: N
PZ-19I	16.85	18.79	46.5 / 47.44	36.1	46.1	10.0	Downgradient	Pump: N ID Plate: N
PZ-20S	17.37	16.16	18.5	8.1	18.1	10.0	Downgradient	Pump: N Transducer ID Plate: N
PZ-20I	17.23	15.98	32.8 / 33.40	22.2	32.2	10.0	Downgradient	Pump: N ID Plate: N
PZ-21S	DM	11.22	12.8 / 13.09	7.4	12.4	5.0	Downgradient	Pump: N ID Plate: N
PZ-21I	13.36	11.69	27.5 / 28.103	17.1	27.1	10.0	Downgradient	Pump: N ID Plate: N
PZ-23I	39.77	39.81	69.1 / 69.77	59.1	69.1	10.0	Downgradient	Pump: N ID Plate: N
BRGWC-24S	13.91	13.24	44.7 44.68	34.2	44.2	10.0	Downgradient A	Pump: N ID Plate: N
PZ-26I	25.43	24.40	33.1 / 33.34	23.1	33.1	10.0	Downgradient	Pump: N ID Plate: N
PZ-28I	16.72	15.50	26.3 / 27.38	16.3	26.3	10.0	Downgradient	Pump: N ID Plate: N
PZ-31S	28.48	29.44	42.0 / 42.8	32.0	42.0	10.0	Downgradient	Pump: NO ID Plate: NO
PZ-40S	15.70	14.73	43.29 43.0	31.6	41.6	10.0	Downgradient A	Pump: N ID Plate: N
PZ-41S	16.90	16.09	48.93 47.1	36.7	46.7	10.0	Downgradient A	Pump: N ID Plate: N
PZ-42S	20.66	20.74	34.45 34.9	24.5	34.5	10.0	Downgradient A	Pump: N ID Plate: N
PZ-43	31.20	31.00	43.1 43.01	32.7	42.7	10.0	Downgradient A	Pump: ID Plate:
PZ-46	11.64	8.91	49.05 48.1	38.1	48.1	10.0	Downgradient B	Pump: N ID Plate: N
PZ-48	34.24	33.72	69.6 69.69	59.2	69.2	10.0	Downgradient D	Pump: ID Plate:

Staff: JB/HA/TG/JT/AS | Date: 1/24/24 | Time (start/finish): 1230 / 1730

Piezometers (continued)

Well-ID	Depth to Water	January 2023 Historical DTW	Total Depth (feet btoc)	Screen Interval (feet btoc)		Screen Length	Location	Has Dedicated Pump (Y/N) ID plate (Y/N)
PZ-49	9.56	8.90	19.8 / 19.32	9.4	19.4	10.0	Downgradient B	Pump: N ID Plate: N
PZ-54	50.97	49.90	55.1 / 54.48	45.1	55.1	10.0	Downgradient E	Pump: ID Plate:
PZ-55	47.79	47.59	52.2 / 52.96	42.2	52.2	10.0	Downgradient E	Pump: ID Plate:
PZ-56	8.05	4.57 (Avg. 6.67)	31.9 / 32.40	21.9	31.9	10.0	Downgradient B	Pump: ID Plate:
PZ-67	32.17	32.11	41.0 / 41.25	30.5	40.5	10.0	Downgradient B	Pump: N ID Plate: Y
PZ-69I	22.63	23.18	41.6 / 41.60	31.1	41.1	10.0	Downgradient D	Pump: N ID Plate: Y
PZ-71I	34.30	34.14 (Recent Install)	42.8 / 43.95	32.5	42.5	10.0	Downgradient D	Pump: N ID Plate: Y
PZ-72I	25.53	25.87 (Recent Install)	36.9 / 36.87	26.6	36.6	10.0	Downgradient D	Pump: N ID Plate: Y
PZ-73I	~~7.55~~ 7.55	7.57 (Recent Install)	28.1 / 28.71	17.8	27.8	10.0	Downgradient D	Pump: N ID Plate: N

Other Locations

PB-13D	9.58	9.46	99.7 / 100.20	89.7	99.7	10.0	Downgradient Temporary Piezomter	Pump: N Size up only ID Plate: N
C2-02	45.53	45.72	59.45				Unknown	Pump: N ID Plate: ✓
IW-B-1	25.41	23.95	43.1	7.8	42.8	35.0	Interstitial Well	Pump: ID Plate:
IW-B-2	9.42	5.19	19.1	8.8	18.8	10.0	Interstitial Well	Pump: ID Plate:
IW-B-3	20.08	17.74 (Recent Install)	46.00				Interstitial Well	Pump: ID Plate:
IW-B-4	21.03	23.35 (Recent Install)	37.34				Interstitial Well	Pump: ID Plate:
IW-B-5	31.22	27.62 (Recent Install)	32.52				Interstitial Well	Pump: ID Plate:
IW-C-1	18.04	17.69 (Avg. 13.17)	22.2	11.9	21.9	10.0	Interstitial Well	Pump: ID Plate:
IW-C-2	22.78	21.34 (Avg. 14.22)	29.1	8.8	28.8	20.0	Interstitial Well	Pump: ID Plate:

Staff: JB/HA/TG/ST/AS | Date: 1/29/24 | Time (start/finish): 1220/1730

Other Locations (continued)

Well-ID	Depth to Water	January 2023 Historical DTW	Total Depth (feet btoc)	Screen Interval (feet btoc)		Screen Length	Location	Has Dedicated Pump (Y/N) ID plate (Y/N)
IW-D-1	DRY	DRY (Aug. 18.52)	19.7	9.4	19.4	10.0	Interstitial Well	Pump: ID Plate:
IW-D-2	26.45	DRY (Aug. 21.10)	33.4	8.1	33.1	25.0	Interstitial Well	Pump: ID Plate:
IW-D-3	Not found	DRY					Interstitial Well	Pump: ID Plate:
IW-E-1	10.15	9.26					Interstitial Well	Pump: ID Plate:
DW-B1	24.91	21.22 (Recent Install)	42.40				Deep Observation Well	Pump: ID Plate:
DW-D1	21.44	18.25 (Recent Install)	37.41				Deep Observation Well	Pump: ID Plate:
OW-B1	24.88	21.21 (Recent Install)	46.13				Observation Well	Pump: ID Plate:
OW-B2	24.45	20.72 (Recent Install)	44.35				Observation Well	Pump: ID Plate:
OW-B3	24.58 ~~24.76~~	20.92 (Recent Install)	50.43				Observation Well	Pump: ID Plate:
OW-B4	24.76	21.11 (Recent Install)	40.83				Observation Well	Pump: ID Plate:
OW-B5	25.35	21.68 (Recent Install)	41.77				Observation Well	Pump: ID Plate:
OW-B6	25.67	21.98 (Recent Install)	42.24				Observation Well	Pump: ID Plate:
OW-D1	20.90	17.75 (Recent Install)	32.26				Observation Well	Pump: ID Plate:
OW-D2	20.85	17.81 (Recent Install)					Observation Well	Pump: N ID Plate: N
OW-D3	20.03	17.24 (Recent Install)	31.44				Observation Well	Pump: N ID Plate: N
OW-D4	—	16.96 (Recent Install)					Observation Well	Pump: ID Plate: gone
OW-D5	—	DRY (Recent Install)					Observation Well	Pump: ID Plate: gone
OW-D6	—	DRY (Recent Install)					Observation Well	Pump: ID Plate: gone

FIELD STAFF:

JB / HA / JT / TG / AS

Georgia Power Site Sampling Data (GW)

Site Name: Plant Branch AP - Upgradient Wells Dates : 1/30/24

Sample ID	Sample Date	Sample Time	Additional Comments
BRA-BRGWA-2S	1/30/24	1045	pH= 6.05
			ferrous iron= 0.0 mg/L
BRA-BRGWA-2I	1/30/24	1252	pH= 6.57
			ferrous iron= 0.0 mg/L
BRA-BRGWA-5S	1/30/24	1022	pH= 6.38
			ferrous iron= 0.0 mg/L
BRA-BRGWA-5I	1/30/24	1030	pH= 6.44
			ferrous iron= 0.0 mg/L
BRA-BRGWA-6S	1/30/24	1021	pH= 5.75
			ferrous iron= 0.0 mg/L

Put Upgradient, BCD, and E on separate COCs

Matrix codes WG for groundwater, WS for surface water, WW for wastewater, WQ for field blanks and equipment blanks
FD for blind field duplicates with WG matrix

Additional comments :

Note if Dissolved metals were taken

Task_Code: BRA-CCR-ASSMT-2024S1

FIELD STAFF:
JB/HA/JT

Georgia Power Site Sampling Data (GW)

Site Name: Plant Branch AP - BCD Dates : 1/30/24 - 2/1/24

Sample ID	Sample Date	Sample Time	Additional Comments
BRA-BRGWA-23S	1/30/24	1238	pH= 5.87 ferrous iron= 0.0 mg/L
BRA-BRGWC-25I	1/31/24	1437	pH= 6.31 ferrous iron= 0.0 mg/L
BRA-BRGWC-27I	1/31/24	1540	pH= 5.83 ferrous iron= 0.0 mg/L
BRA-BRGWC-29I	1/31/24	1040	pH= 4.37 ferrous iron= 5.5 mg/L
BRA-BRGWC-30I	1/30/24	1734	pH= 6.39 ferrous iron= 0.25 mg/L
BRA-BRGWC-32S	1/30/24	1255	pH= 5.98 ferrous iron= 0.0 mg/L
BRA-BRGWC-45	2/1/24	1350	pH= 5.85 ferrous iron= 0.10 mg/L
BRA-BRGWC-47	1/30/24	1456	pH= 5.73 ferrous iron= 0.0 mg/L
BRA-BRGWC-50	2/1/24	1200	pH= 5.14 ferrous iron= 0.0 mg/L
BRA-BRGWC-52I	2/1/24	1015	pH= 6.30 ferrous iron= 0.5 mg/L
BRA-PZ-44	1/30/24	1620	pH= 6.18 ferrous iron= 0.0 mg/L

FIELD STAFF:
JB/NA/ ST

Georgia Power Site Sampling Data (GW)

Site Name: Plant Branch AP - BCD

Dates : 1/30/24 2/1/24

Sample ID	Sample Date	Sample Time	Additional Comments
BRA-PZ-50D	2/1/24	1015	pH= 6.16
			ferrous iron= 3.5 mg/L
BRA-PZ-51I	02/01/24	1349	pH= 5.54
			ferrous iron= 0.0 mg/L
BRA-PZ-51D	2/1/24	1011	pH= 6.74
			ferrous iron= 2.0 mg/L
BRA-PZ-58I	2/1/24	1012	pH= 4.04
			ferrous iron= 7.0 mg/L
BRA-PZ-60I	2/1/24	1313	pH= 4.75
			ferrous iron= 1.0 mg/L
BRA-PZ-61I	2/1/24	1133	pH= 5.26
			ferrous iron= 0.0 mg/L (TG) 0.5 mg/L
BRA-PZ-63I	2/1/24	1410	pH= 5.70
			ferrous iron= 1.5 mg/L
BRA-PZ-64I	2/1/24	1200	pH= 5.13
			ferrous iron= 2.0 mg/L
BRA-PZ-68D	2/1/24	0945	pH= 7.41
			ferrous iron= 0.0 mg/L
BRA-PZ-74I	2/1/24	1200	pH= 6.09
			ferrous iron= 0.0 mg/L

FIELD STAFF:

JB/HA/ST

Georgia Power Site Sampling Data (GW)

Site Name: Plant Branch AP - BCD Dates : 1/30/24 – 2/1/24

Sample ID	Sample Date	Sample Time	Additional Comments
BRA-PZ-75I	2/1/24	1420	pH= 5.92 ferrous iron= 0.0 mg/L
BRA-APBCD-FD-01	1/30/24	1620	Parent Sample: PZ-44
BRA-APBCD-FD-02	2/1/24	—	Parent Sample: BRGWC-52I
BRA-APBCD-FD-03	2/1/24	—	Parent Sample: PZ-60I
BRA-APBCD-FB-01	1/31/24	1425	Poured at: BRGWC-25I
BRA-APBCD-FB-02	2/1/24	1115	Poured at: PZ-64I
BRA-APBCD-FB-03	2/1/24	1320	Poured at: BRGWC-45
BRA-APBCD-EB-04	2/1/24	1010	Equipment Type: Gloves
BRA-APBCD-EB-05	2/1/24	1130	Equipment Type: ~~Gloves~~ SS Water level
BRA-APBCD-EB-06	2/1/24	1305	Equipment Type: Peri Pump

Put Upgradient, BCD, and E on separate COCs

Matrix codes WG for groundwater, WS for surface water, WW for wastewater, WQ for field blanks and equipment blanks
FD for blind field duplicates with WG matrix

Additional comments :

Note if Dissolved metals were taken

Task_Code: BRA-CCR-ASSMT-2024S1

FIELD STAFF: TG/AS

Georgia Power Site Sampling Data (GW)

Site Name: Plant Branch AP - E Dates: 1-30-24 & 1-31-24

Sample ID	Sample Date	Sample Time	Additional Comments
BRA-BRGWC-17S	1-30-24	1551	pH= 6.28 ferrous iron= 0.0 mg/L
BRA-BRGWC-33S	1-31-24	1215	pH= 4.78 ferrous iron= 0.0 mg/L
BRA-BRGWC-34S	1-31-24	1050	pH= 5.95 ferrous iron= 0.0 mg/L
BRA-BRGWC-35S	1-30-24	1200	pH= 5.50 ferrous iron= 0.0 mg/L
BRA-BRGWC-36S	1-31-24	0955	pH= 5.63 ferrous iron= 0.0 mg/L
BRA-BRGWC-37S	1-31-24	1152	pH= 5.76 ferrous iron= 0.0 mg/L
BRA-BRGWC-38S	1-31-24	1345	pH= 4.10 ferrous iron= 0.0 mg/L
BRA-PZ-52D	1-31-24	1405	pH= 7.69 ferrous iron= 0.0 mg/L
BRA-PZ-53D	1-31-24	1555	pH= 6.70 ferrous iron= 0.0 mg/L
BRA-PZ-13S	1-30-24	1545	pH= 5.66 ferrous iron= 0.0 mg/L
BRA-PZ-7DI	1-31-24	1645	pH= 5.50 ferrous iron= 0.0 mg/L

FIELD STAFF: TG/AS

Georgia Power Site Sampling Data (GW)

Site Name: Plant Branch AP - E Dates : 1-30-24 & 1-31-24

Sample ID	Sample Date	Sample Time	Additional Comments
BRA-APE-FD-04	1-30-24	—	Parent Sample: BRGWC-35S
BRA-APE-FD-05	1-31-24	—	Parent Sample: BRGWC-33S
BRA-APE-FB-07	1-30-24	1420	Poured at: BRGWC-13
BRA-APE-FB-08	1-31-24	1500	Poured at: PZ-53D
BRA-APE-EB-09	1-31-24	1030	Equipment Type: Peri. Tubing
BRA-APE-EB-10	1-31-24	1555	Equipment Type: Water Level

Put Upgradient, BCD, and E on separate COCs

Matrix codes WG for groundwater, WS for surface water, WW for wastewater, WQ for field blanks and equipment blanks
FD for blind field duplicates with WG matrix

Additional comments :

Note if Dissolved metals were taken

Task_Code: BRA-CCR-ASSMT-2024S1

Calibration Report

Instrument	Aqua TROLL 400
Serial Number	883546
Created	1/30/2024

Sensor	**RDO**
Serial Number	884416
Last Calibrated	1/30/2024

Calibration Details

Slope	1.1359793
Offset	-0.00 mg/L

Calibration point 100%

Concentration	11.61 mg/L
Temperature	3.42 °C
Barometric Pressure	1,009.0 mbar

Sensor	**Conductivity**
Serial Number	883546
Last Calibrated	1/30/2024

Calibration Details

Cell Constant	0.822
Reference Temperature	20.00 °C
TDS Conversion Factor (ppm)	0.65

Sensor	**Level**
Serial Number	879610
Last Calibrated	Factory Defaults

Sensor	**pH/ORP**
Serial Number	20579
Last Calibrated	1/30/2024

Calibration Details

Total Calibration Points	3

Calibration Point 1

pH of Buffer	4.00 pH
pH mV	158.3 mV
Temperature	0.02 °C

Calibration Point 2

pH of Buffer	7.06 pH
pH mV	-2.4 mV
Temperature	3.61 °C

Calibration Point 3

pH of Buffer	10.14 pH
pH mV	-162.5 mV
Temperature	2.80 °C

Slope and Offset 1

Slope	-52.49 mV/pH
Offset	0.8 mV

Slope and Offset 2

Slope	-52 mV/pH
Offset	0.8 mV

ORP

ORP Solution	ORP Standard
Offset	-8.6 mV
Temperature	3.88 °C

Calibration Report

Instrument	Aqua TROLL 400
Serial Number	965678
Created	2/1/2024

Sensor	**RDO**
Serial Number	1071277
Last Calibrated	2/1/2024

Calibration Details

Slope	1.0825956
Offset	-0.00 mg/L

Calibration point 100%

Concentration	12.47 mg/L
Temperature	2.89 °C
Barometric Pressure	1,012.8 mbar

Sensor	**Conductivity**
Serial Number	965678
Last Calibrated	2/1/2024

Calibration Details

Cell Constant	0.68
Reference Temperature	25.00 °C
TDS Conversion Factor (ppm)	0.65

Sensor	**Level**
Serial Number	965199
Last Calibrated	Factory Defaults

Sensor	**pH/ORP**
Serial Number	21997
Last Calibrated	2/1/2024

Calibration Details

Total Calibration Points	3

Calibration Point 1

pH of Buffer	4.00 pH
pH mV	143.4 mV
Temperature	4.41 °C

Calibration Point 2

pH of Buffer	7.06 pH
pH mV	-15.1 mV
Temperature	4.98 °C

Calibration Point 3

pH of Buffer	10.14 pH
pH mV	-181.3 mV
Temperature	5.36 °C

Slope and Offset 1

Slope	-51.77 mV/pH
Offset	-12.0 mV

Slope and Offset 2

Slope	-53.98 mV/pH
Offset	-11.8 mV

ORP

ORP Solution	ORP Standard
Offset	13.2 mV
Temperature	6.35 °C

Calibration Report

Instrument	Aqua TROLL 400
Serial Number	883546
Created	2/1/2024

Sensor	**RDO**
Serial Number	884416
Last Calibrated	2/1/2024

Calibration Details

Slope	0.9918555
Offset	-0.00 mg/L

Calibration point 100%

Concentration	13.23 mg/L
Temperature	3.65 °C
Barometric Pressure	1,010.6 mbar

Sensor	**Conductivity**
Serial Number	883546
Last Calibrated	2/1/2024

Calibration Details

Cell Constant	0.858
Reference Temperature	20.00 °C
TDS Conversion Factor (ppm)	0.65

Sensor	**Level**
Serial Number	879610
Last Calibrated	Factory Defaults

Sensor	**pH/ORP**
Serial Number	20579
Last Calibrated	2/1/2024

Calibration Details

Total Calibration Points	3

Calibration Point 1

pH of Buffer	4.00 pH
pH mV	153.3 mV
Temperature	3.56 °C

Calibration Point 2

pH of Buffer	7.06 pH
pH mV	1.9 mV
Temperature	3.85 °C

Calibration Point 3

pH of Buffer	10.14 pH
pH mV	-169.1 mV
Temperature	2.70 °C

Slope and Offset 1

Slope	-49.49 mV/pH
Offset	4.8 mV

Slope and Offset 2

Slope	-55.52 mV/pH
Offset	5.2 mV

ORP

ORP Solution	ORP Standard
Offset	120.3 mV
Temperature	2.99 °C

Calibration Report

Instrument	Aqua TROLL 400
Serial Number	850762
Created	1/30/2024

Sensor	**RDO**
Serial Number	1043197
Last Calibrated	1/30/2024

Calibration Details

Slope	1.1068791
Offset	-0.00 mg/L

Calibration point 100%

Concentration	11.54 mg/L
Temperature	4.85 °C
Barometric Pressure	1,009.3 mbar

Sensor	**Conductivity**
Serial Number	850762
Last Calibrated	1/30/2024

Calibration Details

Cell Constant	0.875
Reference Temperature	20.00 °C
TDS Conversion Factor (ppm)	0.65

Sensor	**Level**
Serial Number	850400
Last Calibrated	Factory Defaults

Sensor	**pH/ORP**
Serial Number	21487
Last Calibrated	1/30/2024

Calibration Details

Total Calibration Points	3

Calibration Point 1

pH of Buffer	4.00 pH
pH mV	155.5 mV
Temperature	5.09 °C

Calibration Point 2

pH of Buffer	7.06 pH
pH mV	-15.3 mV
Temperature	5.04 °C

Calibration Point 3

pH of Buffer	10.14 pH
pH mV	-173.3 mV
Temperature	5.09 °C

Slope and Offset 1

Slope	-55.8 mV/pH
Offset	-11.9 mV

Slope and Offset 2

Slope	-51.29 mV/pH
Offset	-12.2 mV

ORP

ORP Solution	Zobell's
Offset	14.2 mV
Temperature	4.94 °C

Calibration Report

Instrument	Aqua TROLL 400
Serial Number	850762
Created	1/31/2024

Sensor	**RDO**
Serial Number	1043197
Last Calibrated	1/31/2024

Calibration Details

Slope	1.0951796
Offset	-0.00 mg/L

Calibration point 100%

Concentration	10.12 mg/L
Temperature	10.43 °C
Barometric Pressure	1,005.0 mbar

Sensor	**Conductivity**
Serial Number	850762
Last Calibrated	1/31/2024

Calibration Details

Cell Constant	0.873
Reference Temperature	20.00 °C
TDS Conversion Factor (ppm)	0.65

Sensor	**Level**
Serial Number	850400
Last Calibrated	Factory Defaults

Sensor	**pH/ORP**
Serial Number	21487
Last Calibrated	1/31/2024

Calibration Details

Total Calibration Points	3

Calibration Point 1

pH of Buffer	4.00 pH
pH mV	156.8 mV
Temperature	10.09 °C

Calibration Point 2

pH of Buffer	7.06 pH
pH mV	-15.5 mV
Temperature	10.16 °C

Calibration Point 3

pH of Buffer	10.14 pH
pH mV	-173.3 mV
Temperature	10.25 °C

Slope and Offset 1

Slope	-56.33 mV/pH
Offset	-12.2 mV

Slope and Offset 2

Slope	-51.22 mV/pH
Offset	-12.5 mV

ORP

ORP Solution	Zobell's
Offset	17.8 mV
Temperature	10.37 °C

Calibration Report

Instrument	Aqua TROLL 400
Serial Number	850762
Created	2/1/2024

Sensor	**RDO**
Serial Number	1043197
Last Calibrated	2/1/2024

Calibration Details

Slope	1.0555389
Offset	-0.00 mg/L

Calibration point 100%

Concentration	11.23 mg/L
Temperature	7.87 °C
Barometric Pressure	1,010.6 mbar

Sensor	**Conductivity**
Serial Number	850762
Last Calibrated	2/1/2024

Calibration Details

Cell Constant	0.865
Reference Temperature	20.00 °C
TDS Conversion Factor (ppm)	0.65

Sensor	**Level**
Serial Number	850400
Last Calibrated	Factory Defaults

Sensor	**pH/ORP**
Serial Number	21487
Last Calibrated	2/1/2024

Calibration Details

Total Calibration Points	3

Calibration Point 1

pH of Buffer	4.00 pH
pH mV	155.1 mV
Temperature	7.32 °C

Calibration Point 2

pH of Buffer	7.06 pH
pH mV	-16.4 mV
Temperature	7.34 °C

Calibration Point 3

pH of Buffer	10.14 pH
pH mV	-169.4 mV
Temperature	7.39 °C

Slope and Offset 1

Slope	-56.05 mV/pH
Offset	-13.0 mV

Slope and Offset 2

Slope	-49.7 mV/pH
Offset	-13.4 mV

ORP

ORP Solution	Zobell's
Offset	15.0 mV
Temperature	7.15 °C

Calibration Report

Instrument	Aqua TROLL 400
Serial Number	883546
Created	1/31/2024

Sensor	**RDO**
Serial Number	884416
Last Calibrated	1/31/2024

Calibration Details

Slope	0.99207425
Offset	-0.00 mg/L

Calibration point 100%

Concentration	10.95 mg/L
Temperature	11.29 °C
Barometric Pressure	1,004.6 mbar

Sensor	**Conductivity**
Serial Number	883546
Last Calibrated	1/31/2024

Calibration Details

Cell Constant	0.868
Reference Temperature	20.00 °C
TDS Conversion Factor (ppm)	0.65

Sensor	**Level**
Serial Number	879610
Last Calibrated	Factory Defaults

Sensor	**pH/ORP**
Serial Number	20579
Last Calibrated	1/31/2024

Calibration Details

Total Calibration Points	3

Calibration Point 1

pH of Buffer	4.00 pH
pH mV	153.8 mV
Temperature	7.75 °C

Calibration Point 2

pH of Buffer	7.06 pH
pH mV	-2.6 mV
Temperature	8.36 °C

Calibration Point 3

pH of Buffer	10.14 pH
pH mV	-167.1 mV
Temperature	8.61 °C

Slope and Offset 1

Slope	-51.11 mV/pH
Offset	0.4 mV

Slope and Offset 2

Slope	-53.38 mV/pH
Offset	0.6 mV

ORP

ORP Solution	ORP Standard
Offset	61.7 mV
Temperature	7.79 °C

Calibration Report

Instrument	Aqua TROLL 400
Serial Number	965658
Created	1/31/2024

Sensor	**RDO**
Serial Number	964434
Last Calibrated	1/31/2024

Calibration Details

Slope	1.0675508
Offset	-0.00 mg/L

Calibration point 100%

Concentration	8.89 mg/L
Temperature	17.35 °C
Barometric Pressure	1,005.9 mbar

Sensor	**Conductivity**
Serial Number	965658
Last Calibrated	1/31/2024

Calibration Details

Cell Constant	0.77
Reference Temperature	20.00 °C
TDS Conversion Factor (ppm)	0.65

Sensor	**Level**
Serial Number	976298
Last Calibrated	Factory Defaults

Sensor	**pH/ORP**
Serial Number	22007
Last Calibrated	1/31/2024

Calibration Details

Total Calibration Points	3

Calibration Point 1

pH of Buffer	4.00 pH
pH mV	152.2 mV
Temperature	20.55 °C

Calibration Point 2

pH of Buffer	7.02 pH
pH mV	-5.4 mV
Temperature	17.83 °C

Calibration Point 3

pH of Buffer	10.05 pH
pH mV	-179.4 mV
Temperature	18.43 °C

Slope and Offset 1

Slope	-52.16 mV/pH
Offset	-4.3 mV

Slope and Offset 2

Slope	-57.43 mV/pH
Offset	-4.2 mV

ORP

ORP Solution	Zobell's
Offset	14.0 mV
Temperature	17.66 °C

Calibration Report

Instrument	Aqua TROLL 400
Serial Number	965658
Created	2/1/2024

Sensor	**RDO**
Serial Number	964434
Last Calibrated	2/1/2024

Calibration Details

Slope	1.1030829
Offset	-0.00 mg/L

Calibration point 100%

Concentration	10.76 mg/L
Temperature	7.60 °C
Barometric Pressure	1,010.3 mbar

Sensor	**Conductivity**
Serial Number	965658
Last Calibrated	2/1/2024

Calibration Details

Cell Constant	0.982
Reference Temperature	20.00 °C
TDS Conversion Factor (ppm)	0.65

Sensor	**Level**
Serial Number	976298
Last Calibrated	Factory Defaults

Sensor	**pH/ORP**
Serial Number	22007
Last Calibrated	2/1/2024

Calibration Details

Total Calibration Points	3

Calibration Point 1

pH of Buffer	4.00 pH
pH mV	144.7 mV
Temperature	4.80 °C

Calibration Point 2

pH of Buffer	7.06 pH
pH mV	-6.3 mV
Temperature	6.59 °C

Calibration Point 3

pH of Buffer	10.14 pH
pH mV	-180.1 mV
Temperature	7.02 °C

Slope and Offset 1

Slope	-49.34 mV/pH
Offset	-3.3 mV

Slope and Offset 2

Slope	-56.44 mV/pH
Offset	-2.9 mV

ORP

ORP Solution	Zobell's
Offset	11.5 mV
Temperature	8.04 °C

Calibration Report

Instrument	Aqua TROLL 400
Serial Number	877800
Created	1/30/2024

Sensor	**RDO**
Serial Number	878537
Last Calibrated	1/30/2024

Calibration Details

Slope	1.175366
Offset	-0.00 mg/L

Calibration point 100%

Concentration	9.09 mg/L
Temperature	10.36 °C
Barometric Pressure	1,009.2 mbar

Sensor	**Conductivity**
Serial Number	877800
Last Calibrated	1/30/2024

Calibration Details

Cell Constant	0.906
Reference Temperature	20.00 °C
TDS Conversion Factor (ppm)	0.65

Sensor	**Level**
Serial Number	850056
Last Calibrated	Factory Defaults

Sensor	**pH/ORP**
Serial Number	21624
Last Calibrated	1/30/2024

Calibration Details

Total Calibration Points	3

Calibration Point 1

pH of Buffer	4.00 pH
pH mV	163.2 mV
Temperature	8.86 °C

Calibration Point 2

pH of Buffer	7.06 pH
pH mV	0.4 mV
Temperature	6.50 °C

Calibration Point 3

pH of Buffer	10.14 pH
pH mV	-161.0 mV
Temperature	8.93 °C

Slope and Offset 1

Slope	-53.2 mV/pH
Offset	3.6 mV

Slope and Offset 2

Slope	-52.39 mV/pH
Offset	3.5 mV

ORP

ORP Solution	Zobell's
Offset	-7.1 mV
Temperature	7.37 °C

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

February 14, 2024

Joju Abraham
Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308

Re: Branch CCR Groundwater Compliance Upgradient
Work Order: 653570

Dear Joju Abraham:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on January 31, 2024. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Recieved
653570001	BRA-BRGWA-2S	Ground Water	30/01/24 10:45	31/01/24 13:06
653570002	BRA-BRGWA-5S	Ground Water	30/01/24 10:22	31/01/24 13:06
653570003	BRA-BRGWA-5I	Ground Water	30/01/24 10:30	31/01/24 13:06
653570004	BRA-BRGWA-6S	Ground Water	30/01/24 10:21	31/01/24 13:06
653570005	BRA-BRGWA-2I	Ground Water	30/01/24 12:52	31/01/24 13:06

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Prep Methods and Prep Dates

Method	Run Date ID
SW846 3005A	01-FEB-2024
SW846 7470A Prep	01-FEB-2024

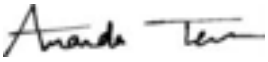
Analysis Methods and Analysis Dates

Method	Run Date ID
EPA 300.0	31-JAN-2024
SM 2320B	01-FEB-2024
SM 2540C	06-FEB-2024

SM 4500-S (2-) D	31-JAN-2024
SW846 3005A/6020B	10-FEB-2024
SW846 3005A/6020B	12-FEB-2024
SW846 3005A/6020B	13-FEB-2024
SW846 7470A	02-FEB-2024

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4504.

Sincerely,



Amanda Turner for
Erin Trent
Project Manager

Purchase Order: GPC82177-0006
Enclosures

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 653570 GEL Work Order: 653570

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL

J Value is estimated

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Erin Trent.

Reviewed by Amanda Tew

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: February 14, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceUpgradient

Client Sample ID: BRA-BRGWA-2S
Sample ID: 653570001
Matrix: WG
Collect Date: 30-JAN-24 10:45
Receive Date: 31-JAN-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		2.14	0.0670	0.200	mg/L		1	CH6	01/31/24	1637	2561599	1
Fluoride		0.184	0.0330	0.100	mg/L		1					
Nitrate-N		0.275	0.0330	0.100	mg/L		1					
Sulfate		0.423	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/02/24	1233	2561612	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/10/24	0036	2561630	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0137	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	J	0.00854	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000962	0.000300	0.00100	mg/L	1.00	1					
Iron		0.119	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		0.443	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		3.51	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1	PRB	02/12/24	1310	2561630	4
Calcium		5.25	0.0800	0.200	mg/L	1.00	1					
Magnesium		5.36	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.0378	0.00100	0.00500	mg/L	1.00	1	PRB	02/13/24	0948	2561630	5
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		54.0	2.38	10.0	mg/L			ES2	02/06/24	0807	2563910	6
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	01/31/24	1638	2561631	7

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Certificate of Analysis

Report Date: February 14, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceUpgradient

Client Sample ID: BRA-BRGWA-2S
Sample ID: 653570001
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		38.1	0.725	2.00	mg/L			JW2	02/01/24	1056	2561936	8
Bicarbonate alkalinity (CaCO3)		38.1	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	JD2	02/01/24	0815	2561629
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/01/24	1135	2561610

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 4500-S (2-) D	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 14, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceUpgradient

Client Sample ID: BRA-BRGWA-5S
Sample ID: 653570002
Matrix: WG
Collect Date: 30-JAN-24 10:22
Receive Date: 31-JAN-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		3.52	0.0670	0.200	mg/L		1	CH6	01/31/24	1810	2561599	1
Fluoride		0.233	0.0330	0.100	mg/L		1					
Nitrate-N		0.204	0.0330	0.100	mg/L		1					
Sulfate		0.617	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/02/24	1239	2561612	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1	PRB	02/12/24	1316	2561630	3
Calcium		18.2	0.0800	0.200	mg/L	1.00	1					
Magnesium		8.58	0.0100	0.0300	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/10/24	0056	2561630	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0396	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	J	0.00582	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0870	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		0.515	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		4.64	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Manganese		0.00634	0.00100	0.00500	mg/L	1.00	1	PRB	02/13/24	1001	2561630	5
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		113	2.38	10.0	mg/L			ES2	02/06/24	0807	2563910	6
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	01/31/24	1638	2561631	7

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Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceUpgradient

Client Sample ID: BRA-BRGWA-5S
Sample ID: 653570002
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		78.1	0.725	2.00	mg/L			JW2	02/01/24	1057	2561936	8
Bicarbonate alkalinity (CaCO3)		78.1	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	JD2	02/01/24	0815	2561629
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/01/24	1135	2561610

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 4500-S (2-) D	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 14, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceUpgradient

Client Sample ID:	BRA-BRGWA-5I	Project:	GPCC00101
Sample ID:	653570003	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	30-JAN-24 10:30		
Receive Date:	31-JAN-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		3.98	0.0670	0.200	mg/L		1	CH6	01/31/24	1841	2561599	1
Fluoride		0.232	0.0330	0.100	mg/L		1					
Nitrate-N		0.349	0.0330	0.100	mg/L		1					
Sulfate		2.74	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/02/24	1240	2561612	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1	PRB	02/12/24	1320	2561630	3
Calcium		16.0	0.0800	0.200	mg/L	1.00	1					
Magnesium		10.8	0.0100	0.0300	mg/L	1.00	1					
Manganese	J	0.00120	0.00100	0.00500	mg/L	1.00	1	PRB	02/13/24	1003	2561630	4
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/10/24	0059	2561630	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0296	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	J	0.00551	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000555	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0342	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum		0.00143	0.000200	0.00100	mg/L	1.00	1					
Potassium		1.23	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		5.05	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		118	2.38	10.0	mg/L			ES2	02/06/24	0807	2563910	6
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	01/31/24	1638	2561631	7

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Report Date: February 14, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceUpgradient

Client Sample ID: BRA-BRGWA-5I
Sample ID: 653570003
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		81.1	0.725	2.00	mg/L			JW2	02/01/24	1100	2561936	8
Bicarbonate alkalinity (CaCO3)		81.1	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/01/24	1135	2561610
SW846 3005A	ICP-MS 3005A PREP	JD2	02/01/24	0815	2561629

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 4500-S (2-) D	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceUpgradient

Client Sample ID: BRA-BRGWA-6S
Sample ID: 653570004
Matrix: WG
Collect Date: 30-JAN-24 10:21
Receive Date: 31-JAN-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		3.23	0.0670	0.200	mg/L		1	CH6	01/31/24	1911	2561599	1
Fluoride	J	0.0341	0.0330	0.100	mg/L		1					
Nitrate-N		0.671	0.0330	0.100	mg/L		1					
Sulfate		0.456	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/02/24	1242	2561612	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1	PRB	02/12/24	1321	2561630	3
Calcium		4.27	0.0800	0.200	mg/L	1.00	1					
Magnesium		4.38	0.0100	0.0300	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1	PRB	02/13/24	1005	2561630	4
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/10/24	0102	2561630	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0151	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium		0.0139	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00317	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		0.659	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		2.60	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		45.0	2.38	10.0	mg/L			ES2	02/06/24	0807	2563910	6
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	01/31/24	1638	2561631	7

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Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceUpgradient

Client Sample ID: BRA-BRGWA-6S
Sample ID: 653570004
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		25.9	0.725	2.00	mg/L			JW2	02/01/24	1101	2561936	8
Bicarbonate alkalinity (CaCO3)		25.9	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/01/24	1135	2561610
SW846 3005A	ICP-MS 3005A PREP	JD2	02/01/24	0815	2561629

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 4500-S (2-) D	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 14, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceUpgradient

Client Sample ID:	BRA-BRGWA-2I	Project:	GPCC00101
Sample ID:	653570005	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	30-JAN-24 12:52		
Receive Date:	31-JAN-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		2.35	0.0670	0.200	mg/L		1	CH6	01/31/24	1942	2561599	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Nitrate-N		0.271	0.0330	0.100	mg/L		1					
Sulfate		2.65	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/02/24	1243	2561612	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1	PRB	02/12/24	1322	2561630	3
Calcium		14.1	0.0800	0.200	mg/L	1.00	1					
Magnesium		8.67	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.0159	0.00100	0.00500	mg/L	1.00	1	PRB	02/13/24	1007	2561630	4
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/10/24	0105	2561630	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0124	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	J	0.00458	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00140	0.000300	0.00100	mg/L	1.00	1					
Iron		0.224	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00407	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	J	0.000362	0.000200	0.00100	mg/L	1.00	1					
Potassium		1.79	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		5.31	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		98.0	2.38	10.0	mg/L			ES2	02/06/24	0807	2563910	6
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	01/31/24	1638	2561631	7

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Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceUpgradient

Client Sample ID: BRA-BRGWA-2I
Sample ID: 653570005
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		68.4	0.725	2.00	mg/L			JW2	02/01/24	1103	2561936	8
Bicarbonate alkalinity (CaCO3)		68.4	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/01/24	1135	2561610
SW846 3005A	ICP-MS 3005A PREP	JD2	02/01/24	0815	2561629

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 4500-S (2-) D	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

QC Summary

Report Date: February 14, 2024

Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia

Contact: **Joju Abraham**

Workorder: **653570**

Parmname	NOM		Sample	Qual	QC	Units	RPD%		REC%	Range	Anlst	Date	Time
Ion Chromatography													
Batch 2561599													
QC1205637122 653570001 DUP													
Chloride			2.14		2.13	mg/L	0.501			(0%-20%)	CH6	01/31/24	17:39
Fluoride			0.184		0.189	mg/L	2.79	^		(+/-0.100)			
Nitrate-N			0.275		0.273	mg/L	0.803	^		(+/-0.100)			
Sulfate			0.423		0.411	mg/L	2.83	^		(+/-0.400)			
QC1205637124 653582003 DUP													
Chloride			6.36		6.34	mg/L	0.331			(0%-20%)		02/01/24	01:22
Fluoride			0.242		0.245	mg/L	1.23	^		(+/-0.100)			
Nitrate-N		J	0.0660	U	ND	mg/L	200	^					
Sulfate			42.4		42.2	mg/L	0.475			(0%-20%)		02/01/24	18:29
QC1205637121 LCS													
Chloride	5.00				4.83	mg/L			96.7	(90%-110%)		01/31/24	16:06
Fluoride	2.50				2.39	mg/L			95.6	(90%-110%)			
Nitrate-N	2.50				2.39	mg/L			95.5	(90%-110%)			
Sulfate	10.0				9.77	mg/L			97.7	(90%-110%)			
QC1205637120 MB													
Chloride				U	ND	mg/L						01/31/24	15:36

QC Summary

Workorder: 653570

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography											
Batch 2561599											
Fluoride				U	ND	mg/L				CH6	01/31/24 15:36
Nitrate-N				U	ND	mg/L					
Sulfate				U	ND	mg/L					
QC1205637123 653570001 PS											
Chloride	5.00		2.14		7.30	mg/L		103	(90%-110%)		01/31/24 17:08
Fluoride	2.50		0.184		2.62	mg/L		97.5	(90%-110%)		
Nitrate-N	2.50		0.275		2.68	mg/L		96	(90%-110%)		
Sulfate	10.0		0.423		10.3	mg/L		98.4	(90%-110%)		
QC1205637125 653582003 PS											
Chloride	5.00		6.36		12.1	mg/L		115*	(90%-110%)		02/01/24 01:53
Fluoride	2.50		0.242		2.67	mg/L		97.1	(90%-110%)		
Nitrate-N	2.50	J	0.0660		2.45	mg/L		95.5	(90%-110%)		
Sulfate	10.0		8.49		18.9	mg/L		104	(90%-110%)		02/02/24 22:46
Metals Analysis - ICPMS											
Batch 2561630											
QC1205637184 LCS											
Antimony	0.0500				0.0489	mg/L		97.9	(80%-120%)	PRB	02/10/24 00:33
Arsenic	0.0500				0.0497	mg/L		99.4	(80%-120%)		
Barium	0.0500				0.0517	mg/L		103	(80%-120%)		

QC Summary

Workorder: **653570**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2561630										
Beryllium	0.0500			0.0563	mg/L		113	(80%-120%)	PRB	02/10/24 00:33
Boron	0.100			0.113	mg/L		113	(80%-120%)		02/12/24 13:08
Cadmium	0.0500			0.0505	mg/L		101	(80%-120%)		02/10/24 00:33
Calcium	2.00			2.14	mg/L		107	(80%-120%)		02/12/24 13:08
Chromium	0.0500			0.0488	mg/L		97.5	(80%-120%)		02/10/24 00:33
Cobalt	0.0500			0.0499	mg/L		99.8	(80%-120%)		
Iron	2.00			1.97	mg/L		98.4	(80%-120%)		
Lead	0.0500			0.0495	mg/L		98.9	(80%-120%)		
Lithium	0.0500			0.0535	mg/L		107	(80%-120%)		
Magnesium	2.00			2.24	mg/L		112	(80%-120%)		02/12/24 13:08
Manganese	0.0500			0.0506	mg/L		101	(80%-120%)		02/13/24 09:46
Molybdenum	0.0500			0.0522	mg/L		104	(80%-120%)		02/10/24 00:33
Potassium	2.00			2.06	mg/L		103	(80%-120%)		
Selenium	0.0500			0.0501	mg/L		100	(80%-120%)		
Sodium	2.00			2.09	mg/L		105	(80%-120%)		

QC Summary

Workorder: **653570**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2561630										
Thallium	0.0500			0.0486	mg/L		97.1	(80%-120%)	PRB	02/10/24 00:33
QC1205637183 MB										
Antimony			U	ND	mg/L					02/10/24 00:30
Arsenic			U	ND	mg/L					
Barium			U	ND	mg/L					
Beryllium			U	ND	mg/L					
Boron			U	ND	mg/L					02/12/24 13:07
Cadmium			U	ND	mg/L					02/10/24 00:30
Calcium			U	ND	mg/L					02/12/24 13:07
Chromium			U	ND	mg/L					02/10/24 00:30
Cobalt			U	ND	mg/L					
Iron			U	ND	mg/L					
Lead			U	ND	mg/L					
Lithium			U	ND	mg/L					
Magnesium			U	ND	mg/L					02/12/24 13:07
Manganese			U	ND	mg/L					02/13/24 09:44

QC Summary

Workorder: **653570**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2561630											
Molybdenum				U	ND	mg/L				PRB	02/10/24 00:30
Potassium				U	ND	mg/L					
Selenium				U	ND	mg/L					
Sodium				U	ND	mg/L					
Thallium				U	ND	mg/L					
QC1205637185 653570001 MS											
Antimony	0.0500	U	ND		0.0501	mg/L		100	(75%-125%)		02/10/24 00:39
Arsenic	0.0500	U	ND		0.0502	mg/L		99.2	(75%-125%)		
Barium	0.0500		0.0137		0.0660	mg/L		105	(75%-125%)		
Beryllium	0.0500	U	ND		0.0590	mg/L		118	(75%-125%)		
Boron	0.100	U	ND		0.117	mg/L		113	(75%-125%)		02/12/24 13:12
Cadmium	0.0500	U	ND		0.0504	mg/L		101	(75%-125%)		02/10/24 00:39
Calcium	2.00		5.25		7.52	mg/L		114	(75%-125%)		02/12/24 13:12
Chromium	0.0500	J	0.00854		0.0593	mg/L		102	(75%-125%)		02/10/24 00:39
Cobalt	0.0500	J	0.000962		0.0528	mg/L		104	(75%-125%)		
Iron	2.00		0.119		2.17	mg/L		102	(75%-125%)		

QC Summary

Workorder: **653570**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2561630											
Lead	0.0500	U	ND		0.0500	mg/L		99.9	(75%-125%)	PRB	02/10/24 00:39
Lithium	0.0500	U	ND		0.0565	mg/L		112	(75%-125%)		
Magnesium	2.00		5.36		7.64	mg/L		114	(75%-125%)		02/12/24 13:12
Manganese	0.0500		0.0378		0.0910	mg/L		106	(75%-125%)		02/13/24 09:50
Molybdenum	0.0500	U	ND		0.0533	mg/L		107	(75%-125%)		02/10/24 00:39
Potassium	2.00		0.443		2.53	mg/L		104	(75%-125%)		
Selenium	0.0500	U	ND		0.0507	mg/L		101	(75%-125%)		
Sodium	2.00		3.51		5.63	mg/L		106	(75%-125%)		
Thallium	0.0500	U	ND		0.0487	mg/L		97.4	(75%-125%)		
QC1205637186 653570001 MSD											
Antimony	0.0500	U	ND		0.0507	mg/L	1.1	101	(0%-20%)		02/10/24 00:42
Arsenic	0.0500	U	ND		0.0511	mg/L	1.87	101	(0%-20%)		
Barium	0.0500		0.0137		0.0668	mg/L	1.3	106	(0%-20%)		
Beryllium	0.0500	U	ND		0.0605	mg/L	2.57	121	(0%-20%)		
Boron	0.100	U	ND		0.120	mg/L	3.14	117	(0%-20%)		02/12/24 13:13
Cadmium	0.0500	U	ND		0.0510	mg/L	1.22	102	(0%-20%)		02/10/24 00:42

QC Summary

Workorder: **653570**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2561630											
Calcium	2.00		5.25		7.64	mg/L	1.52	119	(0%-20%)	PRB	02/12/24 13:13
Chromium	0.0500	J	0.00854		0.0592	mg/L	0.14	101	(0%-20%)		02/10/24 00:42
Cobalt	0.0500	J	0.000962		0.0531	mg/L	0.648	104	(0%-20%)		
Iron	2.00		0.119		2.21	mg/L	2.09	105	(0%-20%)		
Lead	0.0500	U	ND		0.0512	mg/L	2.45	102	(0%-20%)		
Lithium	0.0500	U	ND		0.0571	mg/L	1.03	113	(0%-20%)		
Magnesium	2.00		5.36		7.84	mg/L	2.67	124	(0%-20%)		02/12/24 13:13
Manganese	0.0500		0.0378		0.0910	mg/L	0.0418	106	(0%-20%)		02/13/24 09:52
Molybdenum	0.0500	U	ND		0.0540	mg/L	1.23	108	(0%-20%)		02/10/24 00:42
Potassium	2.00		0.443		2.59	mg/L	2.49	107	(0%-20%)		
Selenium	0.0500	U	ND		0.0514	mg/L	1.48	103	(0%-20%)		
Sodium	2.00		3.51		5.75	mg/L	2.27	112	(0%-20%)		
Thallium	0.0500	U	ND		0.0494	mg/L	1.48	98.8	(0%-20%)		
QC1205637187 653570001 SDILT											
Antimony		U	ND	U	ND	ug/L	N/A		(0%-20%)		02/10/24 00:47
Arsenic		U	ND	U	ND	ug/L	N/A		(0%-20%)		

QC Summary

Workorder: **653570**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2561630										
Barium		13.7	J	2.52	ug/L	7.99		(0%-20%)	PRB	02/10/24 00:47
Beryllium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Boron	U	ND	U	ND	ug/L	N/A		(0%-20%)		02/12/24 13:15
Cadmium	U	ND	U	ND	ug/L	N/A		(0%-20%)		02/10/24 00:47
Calcium		5250		1040	ug/L	.721		(0%-20%)		02/12/24 13:15
Chromium	J	8.54	U	ND	ug/L	N/A		(0%-20%)		02/10/24 00:47
Cobalt	J	0.962	U	ND	ug/L	N/A		(0%-20%)		
Iron		119	U	ND	ug/L	N/A		(0%-20%)		
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Lithium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Magnesium		5360		997	ug/L	7.04		(0%-20%)		02/12/24 13:15
Manganese		37.8		7.44	ug/L	1.55		(0%-20%)		02/13/24 09:56
Molybdenum	U	ND	U	ND	ug/L	N/A		(0%-20%)		02/10/24 00:47
Potassium		443	J	82.7	ug/L	6.62		(0%-20%)		
Selenium	U	ND	U	ND	ug/L	N/A		(0%-20%)		

QC Summary

Workorder: **653570**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2561630										
Sodium		3510		643	ug/L	8.27		(0%-20%)	PRB	02/10/24 00:47
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Metals Analysis-Mercury										
Batch 2561612										
QC1205637162 653438005 DUP										
Mercury	U	ND	U	ND	mg/L	N/A			JP2	02/02/24 12:01
QC1205637158 LCS										
Mercury	0.00200			0.00211	mg/L		106	(80%-120%)		02/02/24 11:41
QC1205637157 MB										
Mercury			U	ND	mg/L					02/02/24 11:40
QC1205637163 653438005 MS										
Mercury	0.00200	U	ND	0.00219	mg/L		109	(75%-125%)		02/02/24 12:02
QC1205637164 653438005 SDILT										
Mercury	U	ND	U	ND	ug/L	N/A		(0%-10%)		02/02/24 12:04
Solids Analysis										
Batch 2563910										
QC1205641440 653575002 DUP										
Total Dissolved Solids		502		509	mg/L	1.38		(0%-5%)	ES2	02/06/24 08:07
QC1205641438 LCS										
Total Dissolved Solids	300			297	mg/L		99	(95%-105%)		02/06/24 08:07
QC1205641437 MB										
Total Dissolved Solids			U	ND	mg/L					02/06/24 08:07

QC Summary

Workorder: **653570**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Spectrometric Analysis										
Batch 2561631										
QC1205637189 LCS										
Total Sulfide	0.400			0.401	mg/L		100	(85%-115%)	JW2	01/31/24 16:37
QC1205637188 MB										
Total Sulfide			U	ND	mg/L					01/31/24 16:37
QC1205637190 653570001 PS										
Total Sulfide	0.400 U	ND		0.421	mg/L		105	(75%-125%)		01/31/24 16:38
QC1205637192 653582003 PS										
Total Sulfide	0.400 U	ND		0.294	mg/L		73.5*	(75%-125%)		01/31/24 16:38
QC1205637191 653570001 PSD										
Total Sulfide	0.400 U	ND		0.418	mg/L	0.75	104	(0%-15%)		01/31/24 16:38
QC1205637193 653582003 PSD										
Total Sulfide	0.400 U	ND		0.289	mg/L	1.8	72.2*	(0%-15%)		01/31/24 16:38
Titration and Ion Analysis										
Batch 2561936										
QC1205637749 LCS										
Alkalinity, Total as CaCO3	50.0			52.3	mg/L		105	(90%-110%)	JW2	02/01/24 10:50
QC1205637750 LCS										
Alkalinity, Total as CaCO3	15.0			15.1	mg/L		101	(90%-110%)		02/01/24 10:54
QC1205637751 LCSD										
Alkalinity, Total as CaCO3	50.0			52.1	mg/L	0.383	104	(0%-20%)		02/01/24 10:52
QC1205637752 LCSD										
Alkalinity, Total as CaCO3	15.0			15.2	mg/L	0.66	101	(0%-20%)		02/01/24 10:55

Notes:

The Qualifiers in this report are defined as follows:

QC Summary

Workorder: **653570**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
N	Metals--The Matrix spike sample recovery is not within specified control limits
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
Z	Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
d	5-day BOD--The 2:1 depletion requirement was not met for this sample
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
E	%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
E	General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
FB	Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
R	Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.
B	The target analyte was detected in the associated blank.
e	5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes
J	See case narrative for an explanation

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2561630

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 14
Preparation Batch: 2561629

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
653570001	BRA-BRGWA-2S
653570002	BRA-BRGWA-5S
653570003	BRA-BRGWA-5I
653570004	BRA-BRGWA-6S
653570005	BRA-BRGWA-2I
1205637183	Method Blank (MB)**ICP-MS**
1205637184	Laboratory Control Sample (LCS)
1205637187	653570001(BRA-BRGWA-2SL) Serial Dilution (SD)
1205637185	653570001(BRA-BRGWA-2SS) Matrix Spike (MS)
1205637186	653570001(BRA-BRGWA-2SSD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

CRDL/PQL Requirements
The CRDL standard recoveries for SW846 6020B met the advisory control limits with the exception of the calcium. Client sample concentrations were less than the MDL or greater than two times the CRDL; therefore the data were not adversely affected.

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**
Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 40

Analytical Batch: 2561612

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 40
Preparation Batch: 2561610

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
653570001	BRA-BRGWA-2S
653570002	BRA-BRGWA-5S
653570003	BRA-BRGWA-5I
653570004	BRA-BRGWA-6S
653570005	BRA-BRGWA-2I
1205637157	Method Blank (MB)**CVAA**
1205637158	Laboratory Control Sample (LCS)
1205637164	653438005(NonSDGL) Serial Dilution (SD)
1205637162	653438005(NonSDGD) Sample Duplicate (DUP)
1205637163	653438005(NonSDGS) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

General Chemistry

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 34
Analytical Batch: 2561599

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
653570001	BRA-BRGWA-2S
653570002	BRA-BRGWA-5S
653570003	BRA-BRGWA-5I
653570004	BRA-BRGWA-6S
653570005	BRA-BRGWA-2I
1205637120	Method Blank (MB)
1205637121	Laboratory Control Sample (LCS)
1205637122	653570001(BRA-BRGWA-2S) Sample Duplicate (DUP)
1205637123	653570001(BRA-BRGWA-2S) Post Spike (PS)
1205637124	653582003(BRA-PZ-44) Sample Duplicate (DUP)
1205637125	653582003(BRA-PZ-44) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures

for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Matrix Spike (MS)/Post Spike (PS) Recovery Statement
The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Chloride	1205637125 (BRA-PZ-44PS)	115* (90%-110%)

Technical Information

Sample Dilutions
The following samples 1205637124 (BRA-PZ-44DUP) and 1205637125 (BRA-PZ-44PS) were diluted because target analyte concentrations exceeded the calibration range. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Sample Re-analysis
Sample 1205637125 (BRA-PZ-44PS) was reanalyzed due to PS failure. The reanalysis data was reported.

Miscellaneous Information

Manual Integrations
Sample 653570004 (BRA-BRGWA-6S) was manually integrated to correctly position the baseline as set in the calibration standards.

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 21
Analytical Batch: 2563910

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
653570001	BRA-BRGWA-2S
653570002	BRA-BRGWA-5S
653570003	BRA-BRGWA-5I
653570004	BRA-BRGWA-6S
653570005	BRA-BRGWA-2I
1205641437	Method Blank (MB)
1205641438	Laboratory Control Sample (LCS)
1205641440	653575002(BRA-BRGWC-35S) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report

met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **Sulfide, Total**
Analytical Method: SM 4500-S (2-) D
Analytical Procedure: GL-GC-E-052 REV# 13
Analytical Batch: 2561631

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
653570001	BRA-BRGWA-2S
653570002	BRA-BRGWA-5S
653570003	BRA-BRGWA-5I
653570004	BRA-BRGWA-6S
653570005	BRA-BRGWA-2I
1205637188	Method Blank (MB)
1205637189	Laboratory Control Sample (LCS)
1205637190	653570001(BRA-BRGWA-2S) Post Spike (PS)
1205637191	653570001(BRA-BRGWA-2S) Post Spike Duplicate (PSD)
1205637192	653582003(BRA-PZ-44) Post Spike (PS)
1205637193	653582003(BRA-PZ-44) Post Spike Duplicate (PSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Matrix Spike (MS)/Post Spike (PS) Recovery Statement
The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Total Sulfide	1205637192 (BRA-PZ-44PS)	73.5* (75%-125%)
	1205637193 (BRA-PZ-44PSD)	72.2* (75%-125%)

Product: **Alkalinity**
Analytical Method: SM 2320B
Analytical Procedure: GL-GC-E-033 REV# 16
Analytical Batch: 2561936

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification

653570001	BRA-BRGWA-2S
653570002	BRA-BRGWA-5S
653570003	BRA-BRGWA-5I
653570004	BRA-BRGWA-6S
653570005	BRA-BRGWA-2I
1205637749	Laboratory Control Sample (LCS)
1205637750	Laboratory Control Sample (LCS)
1205637751	Laboratory Control Sample Duplicate (LCSD)
1205637752	Laboratory Control Sample Duplicate (LCSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Laboratory Control Sample Duplicate (LCSD)
An LCSD was used in place of matrix QC due to limited sample volume.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

653570 / 653572

Page: ____ of ____
Project #
GEL Quote #:
COC Number (1):
PO Number: GPC82177-0006

GEL Laboratories LLC
gel.com | Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number:

GEL Project Manager: Erin Trent

GEL Laboratories
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power | Phone #: 404-506-7116

Project/Site Name: Plant Branch Ash Ponds - Upgradient | Fax #:

Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308

Collected By: J Bowen ACC | Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested (2) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (Mmmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply sample info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Ni	Ni	<-- Preservative Type (5)
									Metals* EPA 6020, 6010, 7470	Radium 226 & 228 SW 846 9315, 9320	Comments
BRA-BR6WA-25	01/30/24	1045	G	N	WG			3	✓	✓	✓
BRA-BR6WA-55	01/30/24	1022	G	N	WG			3	✓	✓	✓
BRA-BR6WA-5I	01/30/24	1030	G	N	WG			3	✓	✓	✓
BRA-BR6WA-6S	01/30/24	1041	G	N	WG			3	✓	✓	✓
BRA-BR6WA-2I	01/30/24	1252	G	N	WG			3	✓	✓	✓
BRA-											
BRA-											
BRA-											
BRA-											
BRA-											

Note: extra sample is required for sample specific QC

Task_Code: BRA-CCR-ASSMT-202451

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	1/31/24	0828	1	1/31/24	0828
2	1/31/24	1614	2	1/31/24	1806
3			3		

TAT Requested: Normal: X Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [X] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] Level 1 [X] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fr,Mg,Mn,K,Se,Hg

For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No Cooler Temp: 7 °C

> For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)

Sample Collection Time Zone: [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other

(1) Chain of Custody Number = Client Determined

(2) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

(3) Field Filtered: For liquid matrices, indicate with a "Y" for yes the sample was field filtered or "N" for sample was not field filtered.

(4) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix

(5) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).

(6) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, AX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave Field blank

(7) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic; Hg= Mercury
Ba = Barium; Se= Selenium
Cd = Cadmium; Ag= Silver
Cr = Chromium; MR= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, ferrumes, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e. Origin of sample(s), type of site collected from, solid matrices, etc.)

653570 653584
653572 653575
653582 653580

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPC	SDG/AR/COC/Work Order:
Received By: QG	Date Received: 1/31/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other
	n/a

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A) Shipped as a DOT Hazardous?			Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?			COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?			Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 26 CPM/mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?			COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?			If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?				Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?				Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)*?				Preservation Method: Wet Ice Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: 4°
4	Daily check performed and passed on IR temperature gun?				Temperature Device Serial #: IR1-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?				Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?				Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?				If "No", are Encores or Soil Kits present for solids? Yes___ No___ NA___ (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___ (If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?				ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?				ID's and containers affected:
10	Date & time on COC match date & time on bottles?				Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?				Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?				
13	COC form is properly signed in relinquished/received sections?				Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials JVS Date 01/02/24 Page 1 of 1

List of current GEL Certifications as of 14 February 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122024-05
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-23-21
Utah NELAP	SC000122023-38
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

February 27, 2024

Joju Abraham
Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308

Re: Branch CCR Groundwater Compliance Upgradient-R
Work Order: 653572

Dear Joju Abraham:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on January 31, 2024. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Recieved
653572001	BRA-BRGWA-2S	Ground Water	30/01/24 10:45	31/01/24 13:06
653572002	BRA-BRGWA-5S	Ground Water	30/01/24 10:22	31/01/24 13:06
653572003	BRA-BRGWA-5I	Ground Water	30/01/24 10:30	31/01/24 13:06
653572004	BRA-BRGWA-6S	Ground Water	30/01/24 10:21	31/01/24 13:06
653572005	BRA-BRGWA-2I	Ground Water	30/01/24 12:52	31/01/24 13:06

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Prep Methods and Prep Dates

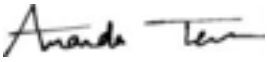
Not Applicable

Analysis Methods and Analysis Dates

Method	Run Date ID
Calculation	27-FEB-2024
EPA 903.1 Modified	26-FEB-2024
EPA 904.0/SW846 9320 Modified	23-FEB-2024

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4504.

Sincerely,



Amanda Turner for
Erin Trent
Project Manager

Purchase Order: GPC82177-0006
Enclosures

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 653572 GEL Work Order: 653572

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

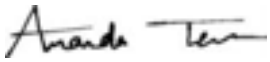
** Analyte is a surrogate compound

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Erin Trent.

Reviewed by 

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: February 27, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceUpgradient-R

Client Sample ID: BRA-BRGWA-2S
Sample ID: 653572001
Matrix: WG
Collect Date: 30-JAN-24
Receive Date: 31-JAN-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		2.10	+/-1.28	2.00	+/-1.39	3.00	pCi/L			JE1	02/23/24	1249	2568518	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.54	+/-1.34	2.00	+/-1.45		pCi/L		1	NXL1	02/27/24	0938	2570132	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.439	+/-0.391	0.467	+/-0.398	1.00	pCi/L			MJ2	02/26/24	0954	2561841	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2568518	91.2	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: February 27, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceUpgradient-R

Client Sample ID: BRA-BRGWA-5S
Sample ID: 653572002
Matrix: WG
Collect Date: 30-JAN-24
Receive Date: 31-JAN-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	-0.728	+/-0.924	1.90	+/-0.924	3.00	pCi/L			JE1	02/23/24	1249	2568518	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	0.000	+/-0.983	1.90	+/-0.983		pCi/L		1	NXL1	02/27/24	0938	2570132	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	-0.0919	+/-0.337	0.917	+/-0.337	1.00	pCi/L			MJ2	02/26/24	0954	2561841	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2568518	86.5	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: February 27, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceUpgradient-R

Client Sample ID: BRA-BRGWA-5I
Sample ID: 653572003
Matrix: WG
Collect Date: 30-JAN-24
Receive Date: 31-JAN-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.906	+/-1.14	1.93	+/-1.16	3.00	pCi/L			JE1	02/23/24	1249	2568518	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	1.48	+/-1.23	1.93	+/-1.26		pCi/L		1	NXL1	02/27/24	0938	2570132	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.579	+/-0.472	0.581	+/-0.488	1.00	pCi/L			MJ2	02/26/24	0954	2561841	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2568518	83	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: February 27, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceUpgradient-R

Client Sample ID: BRA-BRGWA-6S
Sample ID: 653572004
Matrix: WG
Collect Date: 30-JAN-24
Receive Date: 31-JAN-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.933	+/-0.776	1.22	+/-0.811	3.00	pCi/L			JE1	02/23/24	1249	2568518	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		1.29	+/-0.947	1.22	+/-0.979		pCi/L		1	NXL1	02/27/24	0938	2570132	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.361	+/-0.544	0.966	+/-0.548	1.00	pCi/L			MJ2	02/26/24	0954	2561841	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2568518	83.8	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: February 27, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceUpgradient-R

Client Sample ID: BRA-BRGWA-2I
Sample ID: 653572005
Matrix: WG
Collect Date: 30-JAN-24
Receive Date: 31-JAN-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.371	+/-0.647	1.15	+/-0.654	3.00	pCi/L			JE1	02/23/24	1249	2568518	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		1.25	+/-0.927	1.15	+/-0.955		pCi/L		1	NXL1	02/27/24	0938	2570132	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.878	+/-0.664	0.819	+/-0.695	1.00	pCi/L			MJ2	02/26/24	0954	2561841	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2568518	88.9	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

Product: **Radium-226+Radium-228 Calculation**
Analytical Method: Calculation
Analytical Procedure: GL-RAD-D-003 REV# 45
Analytical Batch: 2570132

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
653572001	BRA-BRGWA-2S
653572002	BRA-BRGWA-5S
653572003	BRA-BRGWA-5I
653572004	BRA-BRGWA-6S
653572005	BRA-BRGWA-2I

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **GFPC Ra228, Liquid**
Analytical Method: EPA 904.0/SW846 9320 Modified
Analytical Procedure: GL-RAD-A-063 REV# 5
Analytical Batch: 2568518

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
653572001	BRA-BRGWA-2S
653572002	BRA-BRGWA-5S
653572003	BRA-BRGWA-5I
653572004	BRA-BRGWA-6S
653572005	BRA-BRGWA-2I
1205650244	Method Blank (MB)
1205650245	653572001(BRA-BRGWA-2S) Sample Duplicate (DUP)
1205650246	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Method Blank Criteria
The blank result (See Below) is greater than the MDC but less than the required detection limit.

Sample	Analyte	Value
1205650244 (MB)	Radium-228	Result: 2.37 pCi/L > MDA: 1.79 pCi/L <= RDL: 3.00 pCi/L

Product: **Lucas Cell, Ra226, Liquid**
Analytical Method: EPA 903.1 Modified
Analytical Procedure: GL-RAD-A-008 REV# 15
Analytical Batch: 2561841

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
653572001	BRA-BRGWA-2S
653572002	BRA-BRGWA-5S
653572003	BRA-BRGWA-5I
653572004	BRA-BRGWA-6S
653572005	BRA-BRGWA-2I
1205637591	Method Blank (MB)
1205637592	653572001(BRA-BRGWA-2S) Sample Duplicate (DUP)
1205637593	653572001(BRA-BRGWA-2S) Matrix Spike (MS)
1205637594	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments
The matrix spike, 1205637593 (BRA-BRGWA-2SMS), aliquot was reduced to conserve sample volume.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

QC Summary

Client : **Georgia Power Company, Southern Company**
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia

Contact: **Joju Abraham**

Workorder: **653572**

Report Date: February 27, 2024

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gas Flow										
Batch 2568518										
QC1205650245 653572001 DUP										
Radium-228		2.10	U	1.41	pCi/L	39.2		(0% - 100%)	JE1	02/23/2412:50
	Uncert:	+/-1.28		+/-0.941						
	TPU:	+/-1.39		+/-1.01						
QC1205650246 LCS										
Radium-228	73.9			80.2	pCi/L		109	(75%-125%)	JE1	02/23/2412:50
	Uncert:			+/-4.25						
	TPU:			+/-21.0						
QC1205650244 MB										
Radium-228				2.37	pCi/L				JE1	02/23/2412:50
	Uncert:			+/-1.21						
	TPU:			+/-1.36						
Rad Ra-226										
Batch 2561841										
QC1205637592 653572001 DUP										
Radium-226	U	0.439	U	0.748	pCi/L	0		N/A	MJ2	02/26/2410:29
	Uncert:	+/-0.391		+/-0.667						
	TPU:	+/-0.398		+/-0.676						
QC1205637594 LCS										
Radium-226	26.4			24.7	pCi/L		93.4	(75%-125%)	MJ2	02/26/2410:29
	Uncert:			+/-3.03						
	TPU:			+/-5.48						
QC1205637591 MB										
Radium-226			U	0.197	pCi/L				MJ2	02/26/2410:29
	Uncert:			+/-0.337						
	TPU:			+/-0.340						
QC1205637593 653572001 MS										
Radium-226	135 U	0.439		114	pCi/L		84.3	(75%-125%)	MJ2	02/26/2410:29
	Uncert:	+/-0.391		+/-14.3						
	TPU:	+/-0.398		+/-31.1						

Notes:

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

The Qualifiers in this report are defined as follows:

U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported

QC Summary

Workorder: **653572**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time

UI	Gamma Spectroscopy--Uncertain identification
BD	Results are either below the MDC or tracer recovery is low
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
M	M if above MDC and less than LLD
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
FA	Failed analysis.
UJ	Gamma Spectroscopy--Uncertain identification
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
K	Analyte present. Reported value may be biased high. Actual value is expected to be lower.
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.
L	Analyte present. Reported value may be biased low. Actual value is expected to be higher.
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
**	Analyte is a Tracer compound
M	REMP Result > MDC/CL and < RDL
J	See case narrative for an explanation

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
** Indicates analyte is a surrogate/tracer compound.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptence criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

653570 / 653572

Page: ____ of ____
Project #
GEL Quote #:
COC Number (1):
PO Number: GPC82177-0006

GEL Laboratories LLC

gel.com
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories,
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power | Phone # 404-506-7119
Project/Site Name: Plant Branch Ash Ponds - Upgradient | Fax #
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: [signature] ACC | Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Hazardous (If yes, please supply asterisk info.)	Should this sample be considered: (*) Solvent or possible Hazards	Total number of containers	Cl, F, SO4, TDS, NH3 EPA 300, SM 2540C	Total Carb & Bicarb Alk SM 2320B	Metals* EPA 6020, 6010, 7470	Radium 226 & 228 SW-846 9315, 9320	Sulfide SM 4500							← Preservative Type (6)
BRA-BR6WA-2S	01/30/24	1645	G	N	WG			8	✓	✓	✓	✓	✓							
BRA-BR6WA-5S	01/30/24	1052	G	N	WG			8	✓	✓	✓	✓	✓							
BRA-BR6WA-5I	01/30/24	1030	G	N	WG			8	✓	✓	✓	✓	✓							
BRA-BR6WA-6S	01/30/24	1041	G	N	WG			8	✓	✓	✓	✓	✓							
BRA-BR6WA-2I	01/30/24	1252	G	N	WG			8	✓	✓	✓	✓	✓							
BRA-																				
BRA-																				
BRA-																				
BRA-																				
BRA-																				

Comments
Note: extra sample is required for sample specific QC
Task_Code: BRA-CCR-ASSMT-2024S1

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1 [signature]	1/31/24	0823	1 [signature]	1/31/24	1828
2 [signature]	1/31/24	1824	2 [signature]	1/31/24	1906
3			3		

TAT Requested: Normal: x Rush: ____ Specify: ____ (Subject to Surcharge)
Fax Results: [ ] Yes [x] No
Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [x] Level 2 [ ] Level 3 [ ] Level 4
Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg
For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No Cooler Temp: 1 °C
Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)

1.) Chain of Custody Number = Client Determined

2.) QC Codes: N = Normal Sample, TB = Trip Blank, FB = Field Duplicate, ER = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.

4.) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 2, 6010B/7470A - 1)

6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate. If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic; Hg= Mercury
Ba = Barium; Se= Selenium
Cd = Cadmium; Ag= Silver
Cr = Chromium; MR= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other toxic, health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal requirements. (i.e.: Origin of sample(s), type of site collected from, safe matrices, etc.)

653570 653584
653572 653575
653582 653580

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	SDG/AR/COC/Work Order:
Received By: QG	Date Received: 1/31/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other
	n/a

Suspected Hazard Information	Yes	No	
A) Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)**	✓			Preservation Method: Wet Ice Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: 7°
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR1-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservative added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If "No", are Encores or Soil Kits present for solids? Yes___ No___ NA___ (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___ (If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials JJS Date 01/02/24 Page 1 of 1

List of current GEL Certifications as of 27 February 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122024-05
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-23-21
Utah NELAP	SC000122023-38
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC
2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

February 15, 2024

Joju Abraham
Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308

Re: Branch CCR Groundwater Compliance APE
Work Orders: 653855 and 653575

Dear Joju Abraham:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on January 31, 2024 and February 01, 2024. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Recieved
653575001	BRA-BRGWC-17S	Ground Water	30/01/24 15:51	31/01/24 13:06
653575002	BRA-BRGWC-35S	Ground Water	30/01/24 12:00	31/01/24 13:06
653575003	BRA-PZ-13S	Ground Water	30/01/24 15:45	31/01/24 13:06
653575004	BRA-APE-FD-04	Ground Water	30/01/24 12:00	31/01/24 13:06
653575005	BRA-APE-FB-07	Ground Water	30/01/24 14:20	31/01/24 13:06
653855001	BRA-BRGWC-33S	Ground Water	31/01/24 12:15	01/02/24 13:00
653855002	BRA-BRGWC-34S	Ground Water	31/01/24 10:50	01/02/24 13:00
653855003	BRA-BRGWC-36S	Ground Water	31/01/24 09:55	01/02/24 13:00
653855004	BRA-BRGWC-37S	Ground Water	31/01/24 11:52	01/02/24 13:00
653855005	BRA-BRGWC-38S	Ground Water	31/01/24 13:45	01/02/24 13:00
653855006	BRA-APE-EB-09	Water	31/01/24 10:30	01/02/24 13:00
653855007	BRA-APE-FB-08	Water	31/01/24 15:00	01/02/24 13:00
653855008	BRA-PZ-52D	Ground Water	31/01/24 14:05	01/02/24 13:00
653855009	BRA-PZ-53D	Ground Water	31/01/24 15:55	01/02/24 13:00
653855010	BRA-PZ-70I	Ground Water	31/01/24 16:45	01/02/24 13:00
653855011	BRA-APE-FD-05	Ground Water	31/01/24 12:00	01/02/24 13:00

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Prep Methods and Prep Dates

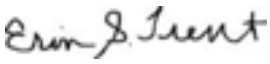
Method	Run Date ID
SW846 3005A	01-FEB-2024
SW846 3005A	02-FEB-2024
SW846 7470A Prep	01-FEB-2024
SW846 7470A Prep	02-FEB-2024

Analysis Methods and Analysis Dates

Method	Run Date ID
EPA 300.0	01-FEB-2024
EPA 300.0	02-FEB-2024
EPA 300.0	03-FEB-2024
EPA 300.0	05-FEB-2024
EPA 300.0	31-JAN-2024
SM 2320B	01-FEB-2024
SM 2320B	02-FEB-2024
SM 2540C	06-FEB-2024
SM 2540C	07-FEB-2024
SM 4500-S (2-) D	01-FEB-2024
SM 4500-S (2-) D	31-JAN-2024
SW846 3005A/6020B	10-FEB-2024
SW846 3005A/6020B	12-FEB-2024
SW846 3005A/6020B	13-FEB-2024
SW846 3005A/6020B	14-FEB-2024
SW846 3005A/6020B	15-FEB-2024
SW846 7470A	02-FEB-2024
SW846 7470A	05-FEB-2024

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4504.

Sincerely,



Erin Trent
Project Manager

Purchase Order: GPC82177-0006
Enclosures

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 653855 GEL Work Order: 653855

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL

H Analytical holding time was exceeded

J Value is estimated

N Metals--The Matrix spike sample recovery is not within specified control limits

N/A RPD or %Recovery limits do not apply.

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Erin Trent.

Reviewed by Erin B. Trent

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 653575 GEL Work Order: 653575

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL

J Value is estimated

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Erin Trent.

Reviewed by Erin B. Trent

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: February 15, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPE

Client Sample ID:	BRA-BRGWC-33S	Project:	GPCC00101
Sample ID:	653855001	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	31-JAN-24 12:15		
Receive Date:	01-FEB-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		65.3	6.70	20.0	mg/L		100	TXT1	02/05/24	1656	2562344	1
Sulfate		872	13.3	40.0	mg/L		100					
Fluoride		0.194	0.0330	0.100	mg/L		1	TXT1	02/01/24	1917	2562344	2
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/05/24	1220	2562605	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		1.28	0.0520	0.150	mg/L	1.00	10	BAJ	02/14/24	1213	2562401	4
Calcium		281	0.800	2.00	mg/L	1.00	10					
Sodium		67.7	0.800	2.50	mg/L	1.00	10					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	02/13/24	2219	2562401	5
Arsenic		0.00516	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0515	0.000670	0.00400	mg/L	1.00	1					
Beryllium		0.00269	0.000200	0.000500	mg/L	1.00	1					
Cadmium	J	0.000792	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.0988	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0373	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0117	0.00300	0.0100	mg/L	1.00	1					
Magnesium		45.2	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		19.4	0.0800	0.300	mg/L	1.00	1					
Selenium		0.0164	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Manganese		5.33	0.0100	0.0500	mg/L	1.00	10	PRB	02/15/24	1418	2562401	6
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1420	4.76	20.0	mg/L			ES2	02/07/24	0848	2564661	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	02/01/24	1655	2562451	8

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Certificate of Analysis

Report Date: February 15, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPE

Client Sample ID: BRA-BRGWC-33S
Sample ID: 653855001
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		2.20	0.725	2.00	mg/L			JW2	02/02/24	1055	2562772	9
Bicarbonate alkalinity (CaCO3)		2.20	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/02/24	1150	2562604
SW846 3005A	ICP-MS 3005A PREP	JD2	02/02/24	0845	2562399

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 4500-S (2-) D	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 15, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPE

Client Sample ID: BRA-BRGWC-34S
Sample ID: 653855002
Matrix: WG
Collect Date: 31-JAN-24 10:50
Receive Date: 01-FEB-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		0.101	0.0330	0.100	mg/L		1	TXT1	02/01/24	1949	2562344	1
Nitrate-N	J	0.0409	0.0330	0.100	mg/L		1					
Chloride		15.7	1.68	5.00	mg/L		25	TXT1	02/03/24	0234	2562344	2
Sulfate		289	3.33	10.0	mg/L		25					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/05/24	1228	2562605	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		2.14	0.104	0.300	mg/L	1.00	20	BAJ	02/14/24	1219	2562401	4
Calcium		99.2	1.60	4.00	mg/L	1.00	20					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	02/13/24	2239	2562401	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0261	0.000670	0.00400	mg/L	1.00	1					
Beryllium	J	0.000202	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00751	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		20.1	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		3.73	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		22.0	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Manganese		4.17	0.0200	0.100	mg/L	1.00	20	PRB	02/15/24	1428	2562401	6
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		494	2.38	10.0	mg/L			ES2	02/07/24	0848	2564661	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	02/01/24	1655	2562451	8

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Certificate of Analysis

Report Date: February 15, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPE

Client Sample ID: BRA-BRGWC-34S
Sample ID: 653855002
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		33.5	0.725	2.00	mg/L			JW2	02/02/24	1057	2562772	9
Bicarbonate alkalinity (CaCO3)		33.5	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	JD2	02/02/24	0845	2562399
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/02/24	1150	2562604

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 4500-S (2-) D	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 15, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPE

Client Sample ID:	BRA-BRGWC-36S	Project:	GPCC00101
Sample ID:	653855003	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	31-JAN-24 09:55		
Receive Date:	01-FEB-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		222	2.66	8.00	mg/L		20	TXT1	02/03/24	0306	2562344	1
Chloride		8.32	0.0670	0.200	mg/L		1	TXT1	02/01/24	2020	2562344	2
Fluoride		0.144	0.0330	0.100	mg/L		1					
Nitrate-N		0.159	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/05/24	1233	2562605	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		1.12	0.0520	0.150	mg/L	1.00	10	BAJ	02/14/24	1220	2562401	4
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1	PRB	02/15/24	1256	2562401	5
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	02/13/24	2242	2562401	6
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0273	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		44.4	0.0800	0.200	mg/L	1.00	1					
Chromium	J	0.00648	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		18.8	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		3.62	0.0800	0.300	mg/L	1.00	1					
Selenium	J	0.00174	0.00150	0.00500	mg/L	1.00	1					
Sodium		38.5	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		435	2.38	10.0	mg/L			ES2	02/07/24	0848	2564661	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	02/01/24	1655	2562451	8

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Certificate of Analysis

Report Date: February 15, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPE

Client Sample ID: BRA-BRGWC-36S
Sample ID: 653855003
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		21.3	0.725	2.00	mg/L			JW2	02/02/24	1059	2562772	9
Bicarbonate alkalinity (CaCO3)		21.3	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	JD2	02/02/24	0845	2562399
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/02/24	1150	2562604

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 4500-S (2-) D	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 15, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPE

Client Sample ID: BRA-BRGWC-37S
Sample ID: 653855004
Matrix: WG
Collect Date: 31-JAN-24 11:52
Receive Date: 01-FEB-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		2.00	0.0670	0.200	mg/L		1	TXT1	02/01/24	2052	2562344	1
Fluoride		0.109	0.0330	0.100	mg/L		1					
Nitrate-N		0.293	0.0330	0.100	mg/L		1					
Sulfate	J	0.258	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/05/24	1234	2562605	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1	PRB	02/15/24	1258	2562401	3
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1	BAJ	02/14/24	1150	2562401	4
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	02/13/24	2244	2562401	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0256	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		3.54	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		1.22	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		1.86	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		4.35	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		37.0	2.38	10.0	mg/L			ES2	02/07/24	0848	2564661	6
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	02/01/24	1655	2562451	7

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Certificate of Analysis

Report Date: February 15, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPE

Client Sample ID: BRA-BRGWC-37S
Sample ID: 653855004
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		22.5	0.725	2.00	mg/L			JW2	02/02/24	1100	2562772	8
Bicarbonate alkalinity (CaCO3)		22.5	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/02/24	1150	2562604
SW846 3005A	ICP-MS 3005A PREP	JD2	02/02/24	0845	2562399

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 4500-S (2-) D	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
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Certificate of Analysis

Report Date: February 15, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPE

Client Sample ID: BRA-BRGWC-38S
Sample ID: 653855005
Matrix: WG
Collect Date: 31-JAN-24 13:45
Receive Date: 01-FEB-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		7.00	0.0670	0.200	mg/L		1	TXT1	02/01/24	2124	2562344	1
Fluoride		0.493	0.0330	0.100	mg/L		1					
Nitrate-N		0.119	0.0330	0.100	mg/L		1					
Sulfate		233	2.66	8.00	mg/L		20	TXT1	02/03/24	0338	2562344	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	J	0.0000850	0.0000670	0.000200	mg/L	1.00	1	JP2	02/05/24	1236	2562605	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		1.26	0.0520	0.150	mg/L	1.00	10	BAJ	02/14/24	1221	2562401	4
Manganese		1.40	0.0100	0.0500	mg/L	1.00	10	PRB	02/15/24	1300	2562401	5
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	02/13/24	2247	2562401	6
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0160	0.000670	0.00400	mg/L	1.00	1					
Beryllium		0.00591	0.000200	0.000500	mg/L	1.00	1					
Cadmium	J	0.000342	0.000300	0.00100	mg/L	1.00	1					
Calcium		23.7	0.0800	0.200	mg/L	1.00	1					
Chromium	J	0.00305	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.134	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0201	0.00300	0.0100	mg/L	1.00	1					
Magnesium		29.2	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		5.15	0.0800	0.300	mg/L	1.00	1					
Selenium		0.0187	0.00150	0.00500	mg/L	1.00	1					
Sodium		31.3	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		393	2.38	10.0	mg/L			ES2	02/07/24	0848	2564661	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	02/01/24	1655	2562451	8

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Report Date: February 15, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPE

Client Sample ID: BRA-BRGWC-38S
Sample ID: 653855005
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	02/02/24	1102	2562772	9
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	JD2	02/02/24	0845	2562399
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/02/24	1150	2562604

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 4500-S (2-) D	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: February 15, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPE

Client Sample ID: BRA-APE-EB-09
Sample ID: 653855006
Matrix: WQ
Collect Date: 31-JAN-24 10:30
Receive Date: 01-FEB-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	J	0.152	0.0670	0.200	mg/L		1	TXT1	02/01/24	2156	2562344	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Nitrate-N	J	0.0509	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/05/24	1238	2562605	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1	BAJ	02/14/24	1151	2562401	3
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1	PRB	02/15/24	1301	2562401	4
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	02/13/24	2250	2562401	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium	U	ND	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium	U	ND	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			ES2	02/07/24	0848	2564661	6
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	02/01/24	1655	2562451	7

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Certificate of Analysis

Report Date: February 15, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPE

Client Sample ID: BRA-APE-EB-09 Project: GPCC00101
Sample ID: 653855006 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	02/02/24	1104	2562772	8
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	JD2	02/02/24	0845	2562399
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/02/24	1150	2562604

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 4500-S (2-) D	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 15, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPE

Client Sample ID: BRA-APE-FB-08
Sample ID: 653855007
Matrix: WQ
Collect Date: 31-JAN-24 15:00
Receive Date: 01-FEB-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	J	0.116	0.0670	0.200	mg/L		1	TXT1	02/01/24	2331	2562344	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/05/24	1239	2562605	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	02/13/24	2253	2562401	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium	U	ND	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium	U	ND	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1	BAJ	02/14/24	1153	2562401	4
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1	PRB	02/15/24	1303	2562401	5
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			ES2	02/07/24	0848	2564661	6
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	02/01/24	1655	2562451	7

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Certificate of Analysis

Report Date: February 15, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPE

Client Sample ID: BRA-APE-FB-08 Project: GPCC00101
Sample ID: 653855007 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	02/02/24	1106	2562772	8
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/02/24	1150	2562604
SW846 3005A	ICP-MS 3005A PREP	JD2	02/02/24	0845	2562399

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 4500-S (2-) D	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 15, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPE

Client Sample ID: BRA-PZ-52D
Sample ID: 653855008
Matrix: WG
Collect Date: 31-JAN-24 14:05
Receive Date: 01-FEB-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		5.59	0.0670	0.200	mg/L		1	TXT1	02/02/24	0003	2562344	1
Fluoride		1.90	0.0330	0.100	mg/L		1					
Nitrate-N		0.151	0.0330	0.100	mg/L		1					
Sulfate		94.4	1.33	4.00	mg/L		10	TXT1	02/03/24	0410	2562344	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/05/24	1241	2562605	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Sodium		58.6	0.800	2.50	mg/L	1.00	10	BAJ	02/14/24	1225	2562401	4
Boron		0.0633	0.00520	0.0150	mg/L	1.00	1	BAJ	02/14/24	1154	2562401	5
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	02/13/24	2302	2562401	6
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0184	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		45.6	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00104	0.000300	0.00100	mg/L	1.00	1					
Iron		0.192	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0184	0.00300	0.0100	mg/L	1.00	1					
Magnesium		11.3	0.0100	0.0300	mg/L	1.00	1					
Molybdenum		0.0137	0.000200	0.00100	mg/L	1.00	1					
Potassium		5.60	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Manganese		0.00989	0.00100	0.00500	mg/L	1.00	1	PRB	02/15/24	1305	2562401	7
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		342	2.38	10.0	mg/L			ES2	02/07/24	0848	2564661	8
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	02/01/24	1655	2562451	9

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Certificate of Analysis

Report Date: February 15, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPE

Client Sample ID: BRA-PZ-52D
Sample ID: 653855008
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		178	0.725	2.00	mg/L			JW2	02/02/24	1107	2562772	10
Bicarbonate alkalinity (CaCO3)		178	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/02/24	1150	2562604
SW846 3005A	ICP-MS 3005A PREP	JD2	02/02/24	0845	2562399

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 4500-S (2-) D	
10	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 15, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPE

Client Sample ID: BRA-PZ-53D
Sample ID: 653855009
Matrix: WG
Collect Date: 31-JAN-24 15:55
Receive Date: 01-FEB-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		302	3.33	10.0	mg/L		25	TXT1	02/03/24	0442	2562344	1
Chloride		4.58	0.0670	0.200	mg/L		1	TXT1	02/02/24	0035	2562344	2
Fluoride		0.153	0.0330	0.100	mg/L		1					
Nitrate-N	J	0.0429	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/05/24	1243	2562605	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	02/13/24	2305	2562401	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0517	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron		0.213	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0182	0.00300	0.0100	mg/L	1.00	1					
Magnesium		19.4	0.0100	0.0300	mg/L	1.00	1					
Molybdenum		0.00209	0.000200	0.00100	mg/L	1.00	1					
Potassium		6.03	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		43.3	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		1.03	0.0520	0.150	mg/L	1.00	10	BAJ	02/14/24	1227	2562401	5
Calcium		81.7	0.800	2.00	mg/L	1.00	10					
Manganese		0.520	0.00100	0.00500	mg/L	1.00	1	PRB	02/15/24	1307	2562401	6
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		547	2.38	10.0	mg/L			ES2	02/07/24	0848	2564661	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	02/01/24	1655	2562451	8

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Certificate of Analysis

Report Date: February 15, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPE

Client Sample ID: BRA-PZ-53D
Sample ID: 653855009
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		52.5	0.725	2.00	mg/L			JW2	02/02/24	1109	2562772	9
Bicarbonate alkalinity (CaCO3)		52.5	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/02/24	1150	2562604
SW846 3005A	ICP-MS 3005A PREP	JD2	02/02/24	0845	2562399

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 4500-S (2-) D	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 15, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPE

Client Sample ID: BRA-PZ-70I
Sample ID: 653855010
Matrix: WG
Collect Date: 31-JAN-24 16:45
Receive Date: 01-FEB-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		5.74	0.0670	0.200	mg/L		1	TXT1	02/02/24	0107	2562344	1
Fluoride		0.108	0.0330	0.100	mg/L		1					
Nitrate-N		0.152	0.0330	0.100	mg/L		1					
Sulfate		133	1.33	4.00	mg/L		10	TXT1	02/03/24	0514	2562344	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury		0.00149	0.0000670	0.000200	mg/L	1.00	1	JP2	02/05/24	1244	2562605	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Manganese		0.267	0.00100	0.00500	mg/L	1.00	1	PRB	02/15/24	1309	2562401	4
Boron		1.06	0.0520	0.150	mg/L	1.00	10	BAJ	02/14/24	1228	2562401	5
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	02/13/24	2307	2562401	6
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0207	0.000670	0.00400	mg/L	1.00	1					
Beryllium	J	0.000340	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		31.6	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000866	0.000300	0.00100	mg/L	1.00	1					
Iron		0.123	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00385	0.00300	0.0100	mg/L	1.00	1					
Magnesium		11.3	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		3.97	0.0800	0.300	mg/L	1.00	1					
Selenium		0.00789	0.00150	0.00500	mg/L	1.00	1					
Sodium		19.8	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		252	2.38	10.0	mg/L			ES2	02/07/24	0848	2564661	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	02/01/24	1655	2562451	8

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Certificate of Analysis

Report Date: February 15, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPE

Client Sample ID: BRA-PZ-70I
Sample ID: 653855010
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		15.9	0.725	2.00	mg/L			JW2	02/02/24	1111	2562772	9
Bicarbonate alkalinity (CaCO3)		15.9	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/02/24	1150	2562604
SW846 3005A	ICP-MS 3005A PREP	JD2	02/02/24	0845	2562399

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 4500-S (2-) D	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 15, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPE

Client Sample ID: BRA-APE-FD-05
Sample ID: 653855011
Matrix: WG
Collect Date: 31-JAN-24 12:00
Receive Date: 01-FEB-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		0.199	0.0330	0.100	mg/L		1	TXT1	02/02/24	0139	2562344	1
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Chloride		65.5	6.70	20.0	mg/L		100	TXT1	02/03/24	0649	2562344	2
Sulfate		870	13.3	40.0	mg/L		100					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/05/24	1246	2562605	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		1.23	0.0520	0.150	mg/L	1.00	10	BAJ	02/14/24	1229	2562401	4
Calcium		288	0.800	2.00	mg/L	1.00	10					
Sodium		66.4	0.800	2.50	mg/L	1.00	10					
Manganese		5.11	0.0100	0.0500	mg/L	1.00	10	PRB	02/15/24	1311	2562401	5
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	02/13/24	2310	2562401	6
Arsenic	J	0.00450	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0519	0.000670	0.00400	mg/L	1.00	1					
Beryllium		0.00267	0.000200	0.000500	mg/L	1.00	1					
Cadmium	J	0.000739	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.0975	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0396	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0117	0.00300	0.0100	mg/L	1.00	1					
Magnesium		45.5	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		19.7	0.0800	0.300	mg/L	1.00	1					
Selenium		0.0166	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1430	4.76	20.0	mg/L			ES2	02/07/24	0848	2564661	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	02/01/24	1655	2562451	8

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Certificate of Analysis

Report Date: February 15, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPE

Client Sample ID: BRA-APE-FD-05 Project: GPCC00101
Sample ID: 653855011 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	J	1.30	0.725	2.00	mg/L			JW2	02/02/24	1113	2562772	9
Bicarbonate alkalinity (CaCO3)	J	1.30	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	JD2	02/02/24	0845	2562399
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/02/24	1150	2562604

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 4500-S (2-) D	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 15, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPE

Client Sample ID: BRA-APE-EB-10
Sample ID: 653855012
Matrix: WQ
Collect Date: 31-JAN-24 15:55
Receive Date: 01-FEB-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	J	0.111	0.0670	0.200	mg/L		1	TXT1	02/02/24	0211	2562344	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/05/24	1248	2562605	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1	PRB	02/15/24	1313	2562401	3
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	02/13/24	2313	2562401	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium	J	0.0190	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1	BAJ	02/14/24	1155	2562401	5
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Sodium	U	ND	0.0800	0.250	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			ES2	02/07/24	0848	2564661	6
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	02/01/24	1655	2562451	7

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Report Date: February 15, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPE

Client Sample ID: BRA-APE-EB-10 Project: GPCC00101
Sample ID: 653855012 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	02/02/24	1114	2562772	8
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	JD2	02/02/24	0845	2562399
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/02/24	1150	2562604

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 4500-S (2-) D	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 14, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater ComplianceAPE

Client Sample ID:	BRA-BRGWC-17S	Project:	GPCC00101
Sample ID:	653575001	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	30-JAN-24 15:51		
Receive Date:	31-JAN-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		5.69	0.0670	0.200	mg/L		1	CH6	01/31/24	2013	2561599	1
Fluoride		0.340	0.0330	0.100	mg/L		1					
Nitrate-N		0.119	0.0330	0.100	mg/L		1					
Sulfate		189	2.66	8.00	mg/L		20	CH6	02/01/24	1351	2561599	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/02/24	1301	2561614	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1	PRB	02/13/24	1009	2561630	4
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/10/24	0107	2561630	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0522	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium		0.0110	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		1.26	0.0800	0.300	mg/L	1.00	1					
Selenium	J	0.00271	0.00150	0.00500	mg/L	1.00	1					
Sodium		26.7	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Calcium		53.3	0.800	2.00	mg/L	1.00	10	PRB	02/12/24	1342	2561630	6
Boron		0.0758	0.00520	0.0150	mg/L	1.00	1	PRB	02/12/24	1323	2561630	7
Magnesium		32.3	0.0100	0.0300	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		413	2.38	10.0	mg/L			ES2	02/06/24	0807	2563910	8
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	01/31/24	1638	2561631	9

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Certificate of Analysis

Report Date: February 14, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPE

Client Sample ID: BRA-BRGWC-17S
Sample ID: 653575001
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		74.4	0.725	2.00	mg/L			JW2	02/01/24	1105	2561936	10
Bicarbonate alkalinity (CaCO3)		74.4	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	JD2	02/01/24	0815	2561629
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/01/24	1135	2561613

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 4500-S (2-) D	
10	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 14, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPE

Client Sample ID: BRA-BRGWC-35S
Sample ID: 653575002
Matrix: WG
Collect Date: 30-JAN-24 12:00
Receive Date: 31-JAN-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		6.51	0.0670	0.200	mg/L		1	CH6	01/31/24	2146	2561599	1
Fluoride		0.263	0.0330	0.100	mg/L		1					
Nitrate-N		0.183	0.0330	0.100	mg/L		1					
Sulfate		278	2.66	8.00	mg/L		20	CH6	02/01/24	1422	2561599	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/02/24	1303	2561614	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Manganese		0.0108	0.00100	0.00500	mg/L	1.00	1	PRB	02/13/24	1010	2561630	4
Boron		2.39	0.104	0.300	mg/L	1.00	20	PRB	02/12/24	1343	2561630	5
Calcium		68.9	1.60	4.00	mg/L	1.00	20					
Magnesium		36.6	0.0100	0.0300	mg/L	1.00	1	PRB	02/12/24	1401	2561630	6
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/10/24	0110	2561630	7
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0299	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	J	0.00590	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		4.11	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		19.3	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		502	2.38	10.0	mg/L			ES2	02/06/24	0807	2563910	8
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	01/31/24	1638	2561631	9

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Report Date: February 14, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPE

Client Sample ID: BRA-BRGWC-35S
Sample ID: 653575002
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		54.1	0.725	2.00	mg/L			JW2	02/01/24	1107	2561936	10
Bicarbonate alkalinity (CaCO3)		54.1	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/01/24	1135	2561613
SW846 3005A	ICP-MS 3005A PREP	JD2	02/01/24	0815	2561629

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 4500-S (2-) D	
10	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: February 14, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPE

Client Sample ID:	BRA-PZ-13S	Project:	GPCC00101
Sample ID:	653575003	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	30-JAN-24 15:45		
Receive Date:	31-JAN-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		76.9	0.665	2.00	mg/L		5	CH6	02/01/24	1453	2561599	1
Chloride		3.19	0.0670	0.200	mg/L		1	CH6	01/31/24	2217	2561599	2
Fluoride		0.222	0.0330	0.100	mg/L		1					
Nitrate-N	J	0.0732	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/02/24	1305	2561614	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/10/24	0113	2561630	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0499	0.000670	0.00400	mg/L	1.00	1					
Beryllium	J	0.000388	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium		0.0134	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		4.28	0.0800	0.300	mg/L	1.00	1					
Selenium	J	0.00203	0.00150	0.00500	mg/L	1.00	1					
Sodium		11.9	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron	J	0.00656	0.00520	0.0150	mg/L	1.00	1	PRB	02/12/24	1324	2561630	5
Calcium		15.9	0.0800	0.200	mg/L	1.00	1					
Magnesium		10.1	0.0100	0.0300	mg/L	1.00	1					
Manganese	J	0.00176	0.00100	0.00500	mg/L	1.00	1	PRB	02/13/24	1012	2561630	6
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		161	2.38	10.0	mg/L			ES2	02/06/24	0807	2563910	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	01/31/24	1638	2561631	8

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Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPE

Client Sample ID: BRA-PZ-13S
Sample ID: 653575003
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		20.4	0.725	2.00	mg/L			JW2	02/01/24	1108	2561936	9
Bicarbonate alkalinity (CaCO3)		20.4	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/01/24	1135	2561613
SW846 3005A	ICP-MS 3005A PREP	JD2	02/01/24	0815	2561629

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 4500-S (2-) D	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPE

Client Sample ID: BRA-APE-FD-04
Sample ID: 653575004
Matrix: WG
Collect Date: 30-JAN-24 12:00
Receive Date: 31-JAN-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		277	2.66	8.00	mg/L		20	CH6	02/01/24	1524	2561599	1
Chloride		6.56	0.0670	0.200	mg/L		1	CH6	01/31/24	2248	2561599	2
Fluoride		0.261	0.0330	0.100	mg/L		1					
Nitrate-N		0.115	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/02/24	1306	2561614	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Manganese		0.00973	0.00100	0.00500	mg/L	1.00	1	PRB	02/13/24	1014	2561630	4
Boron		2.54	0.104	0.300	mg/L	1.00	20	PRB	02/12/24	1344	2561630	5
Calcium		72.3	1.60	4.00	mg/L	1.00	20					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/10/24	0116	2561630	6
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0310	0.000670	0.00400	mg/L	1.00	1					
Beryllium	J	0.000204	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	J	0.00587	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		4.34	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		20.5	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Magnesium		39.2	0.0100	0.0300	mg/L	1.00	1	PRB	02/12/24	1402	2561630	7
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		505	2.38	10.0	mg/L			ES2	02/06/24	0807	2563910	8
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	01/31/24	1638	2561631	9

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Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPE

Client Sample ID: BRA-APE-FD-04 Project: GPCC00101
Sample ID: 653575004 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		53.4	0.725	2.00	mg/L			JW2	02/01/24	1110	2561936	10
Bicarbonate alkalinity (CaCO3)		53.4	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/01/24	1135	2561613
SW846 3005A	ICP-MS 3005A PREP	JD2	02/01/24	0815	2561629

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 4500-S (2-) D	
10	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPE

Client Sample ID: BRA-APE-FB-07
Sample ID: 653575005
Matrix: WQ
Collect Date: 30-JAN-24 14:20
Receive Date: 31-JAN-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	CH6	01/31/24	2318	2561599	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/02/24	1308	2561614	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1	PRB	02/13/24	1016	2561630	3
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1	PRB	02/12/24	1309	2561630	4
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Magnesium	U	ND	0.0100	0.0300	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/10/24	0124	2561630	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium	U	ND	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			ES2	02/06/24	0807	2563910	6
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	01/31/24	1638	2561631	7

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Report Date: February 14, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPE

Client Sample ID: BRA-APE-FB-07 Project: GPCC00101
Sample ID: 653575005 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	02/01/24	1112	2561936	8
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	JD2	02/01/24	0815	2561629
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/01/24	1135	2561613

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 4500-S (2-) D	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

QC Summary

Report Date: February 15, 2024

Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia

Contact: **Joju Abraham**

Workorder: **653855**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch 2562344											
QC1205638343 653853001 DUP											
Chloride		7.94		7.97	mg/L	0.41		(0%-20%)	TXT1	02/02/24	02:43
Fluoride	J	0.0968	J	0.0966	mg/L	0.207 ^		(+/-0.100)			
Nitrate-N		0.725		0.731	mg/L	0.865		(0%-20%)			
Sulfate		328		329	mg/L	0.342		(0%-20%)		02/02/24	07:29
QC1205638345 653855010 DUP											
Chloride		5.74		5.73	mg/L	0.171		(0%-20%)		02/02/24	03:46
Fluoride		0.108		0.113	mg/L	5.34 ^		(+/-0.100)			
Nitrate-N		0.152		0.155	mg/L	1.89 ^		(+/-0.100)			
Sulfate		133		133	mg/L	0.0256		(0%-20%)		02/03/24	05:46
QC1205638342 LCS											
Chloride	5.00			4.92	mg/L		98.4	(90%-110%)		02/02/24	06:26
Fluoride	2.50			2.43	mg/L		97.2	(90%-110%)			
Nitrate-N	2.50			2.47	mg/L		98.8	(90%-110%)			
Sulfate	10.0			9.72	mg/L		97.2	(90%-110%)			
QC1205638341 MB											
Chloride			J	0.114	mg/L					02/02/24	05:54

QC Summary

Workorder: **653855**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography											
Batch 2562344											
Fluoride				U	ND	mg/L				TXT1	02/02/24 05:54
Nitrate-N				U	ND	mg/L					
Sulfate				U	ND	mg/L					
QC1205638344 653853001 PS											
Chloride	5.00		7.94		13.7	mg/L		116*	(90%-110%)		02/02/24 03:15
Fluoride	2.50	J	0.0968		2.56	mg/L		98.6	(90%-110%)		
Nitrate-N	2.50		0.725		3.25	mg/L		101	(90%-110%)		
Sulfate	10.0		6.57		16.8	mg/L		102	(90%-110%)		02/02/24 08:59
QC1205638346 653855010 PS											
Chloride	5.00		5.74		11.4	mg/L		113*	(90%-110%)		02/02/24 04:18
Fluoride	2.50		0.108		2.52	mg/L		96.5	(90%-110%)		
Nitrate-N	2.50		0.152		2.62	mg/L		98.9	(90%-110%)		
Sulfate	10.0		13.3		24.4	mg/L		111*	(90%-110%)		02/03/24 06:17
Metals Analysis - ICPMS											
Batch 2562401											
QC1205638460 LCS											
Antimony	0.0500				0.0500	mg/L		99.9	(80%-120%)	BAJ	02/13/24 22:16
Arsenic	0.0500				0.0498	mg/L		99.7	(80%-120%)		
Barium	0.0500				0.0506	mg/L		101	(80%-120%)		

QC Summary

Workorder: **653855**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2562401										
Beryllium	0.0500			0.0564	mg/L		113	(80%-120%)	BAJ	02/13/24 22:16
Boron	0.100			0.115	mg/L		115	(80%-120%)		02/14/24 11:49
Cadmium	0.0500			0.0504	mg/L		101	(80%-120%)		02/13/24 22:16
Calcium	2.00			2.08	mg/L		104	(80%-120%)		
Chromium	0.0500			0.0509	mg/L		102	(80%-120%)		
Cobalt	0.0500			0.0515	mg/L		103	(80%-120%)		
Iron	2.00			2.04	mg/L		102	(80%-120%)		
Lead	0.0500			0.0506	mg/L		101	(80%-120%)		
Lithium	0.0500			0.0534	mg/L		107	(80%-120%)		
Magnesium	2.00			2.06	mg/L		103	(80%-120%)		
Manganese	0.0500			0.0498	mg/L		99.6	(80%-120%)	PRB	02/15/24 14:16
Molybdenum	0.0500			0.0519	mg/L		104	(80%-120%)	BAJ	02/13/24 22:16
Potassium	2.00			2.00	mg/L		99.9	(80%-120%)		
Selenium	0.0500			0.0499	mg/L		99.9	(80%-120%)		
Sodium	2.00			2.06	mg/L		103	(80%-120%)		

QC Summary

Workorder: **653855**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2562401										
Thallium	0.0500			0.0490	mg/L		98.1	(80%-120%)	BAJ	02/13/24 22:16
QC1205638459 MB										
Antimony			U	ND	mg/L					02/13/24 22:13
Arsenic			U	ND	mg/L					
Barium			U	ND	mg/L					
Beryllium			U	ND	mg/L					
Boron			U	ND	mg/L					02/14/24 11:47
Cadmium			U	ND	mg/L					02/13/24 22:13
Calcium			U	ND	mg/L					
Chromium			U	ND	mg/L					
Cobalt			U	ND	mg/L					
Iron			U	ND	mg/L					
Lead			U	ND	mg/L					
Lithium			U	ND	mg/L					
Magnesium			U	ND	mg/L					
Manganese			U	ND	mg/L				PRB	02/15/24 14:15

QC Summary

Workorder: **653855**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2562401											
Molybdenum				U	ND	mg/L				BAJ	02/13/24 22:13
Potassium				U	ND	mg/L					
Selenium				U	ND	mg/L					
Sodium				U	ND	mg/L					
Thallium				U	ND	mg/L					
QC1205638461 653855001 MS											
Antimony	0.0500	U	ND		0.0503	mg/L		101	(75%-125%)		02/13/24 22:22
Arsenic	0.0500		0.00516		0.0593	mg/L		108	(75%-125%)		
Barium	0.0500		0.0515		0.0958	mg/L		88.7	(75%-125%)		
Beryllium	0.0500		0.00269		0.0567	mg/L		108	(75%-125%)		
Boron	0.100		1.28		1.33	mg/L		N/A	(75%-125%)		02/14/24 12:14
Cadmium	0.0500	J	0.000792		0.0497	mg/L		97.9	(75%-125%)		02/13/24 22:22
Calcium	2.00		281		282	mg/L		N/A	(75%-125%)		02/14/24 12:14
Chromium	0.0500	U	ND		0.0502	mg/L		99.8	(75%-125%)		02/13/24 22:22
Cobalt	0.0500		0.0988		0.146	mg/L		94	(75%-125%)		
Iron	2.00	J	0.0373		2.00	mg/L		98.1	(75%-125%)		

QC Summary

Workorder: **653855**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2562401											
Lead	0.0500	U	ND		0.0422	mg/L		84.1	(75%-125%)	BAJ	02/13/24 22:22
Lithium	0.0500		0.0117		0.0666	mg/L		110	(75%-125%)		
Magnesium	2.00		45.2		47.0	mg/L		N/A	(75%-125%)		
Manganese	0.0500		5.33		5.09	mg/L		N/A	(75%-125%)	PRB	02/15/24 14:20
Molybdenum	0.0500	U	ND		0.0562	mg/L		112	(75%-125%)	BAJ	02/13/24 22:22
Potassium	2.00		19.4		21.8	mg/L		N/A	(75%-125%)		
Selenium	0.0500		0.0164		0.0718	mg/L		111	(75%-125%)		
Sodium	2.00		67.7		67.0	mg/L		N/A	(75%-125%)		02/14/24 12:14
Thallium	0.0500	U	ND		0.0416	mg/L		82.6	(75%-125%)		02/13/24 22:22
QC1205638462 653855001 MSD											
Antimony	0.0500	U	ND		0.0512	mg/L	1.85	102	(0%-20%)		02/13/24 22:24
Arsenic	0.0500		0.00516		0.0595	mg/L	0.363	109	(0%-20%)		
Barium	0.0500		0.0515		0.0968	mg/L	1.04	90.7	(0%-20%)		
Beryllium	0.0500		0.00269		0.0565	mg/L	0.475	108	(0%-20%)		
Boron	0.100		1.28		1.32	mg/L	1.34	N/A	(0%-20%)		02/14/24 12:16
Cadmium	0.0500	J	0.000792		0.0497	mg/L	0.133	97.7	(0%-20%)		02/13/24 22:24

QC Summary

Workorder: **653855**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2562401											
Calcium	2.00		281		287	mg/L	1.71	N/A	(0%-20%)	BAJ	02/14/24 12:16
Chromium	0.0500	U	ND		0.0500	mg/L	0.459	99.3	(0%-20%)		02/13/24 22:24
Cobalt	0.0500		0.0988		0.149	mg/L	1.97	99.8	(0%-20%)		
Iron	2.00	J	0.0373		2.00	mg/L	0.123	97.9	(0%-20%)		
Lead	0.0500	U	ND		0.0423	mg/L	0.151	84.2	(0%-20%)		
Lithium	0.0500		0.0117		0.0644	mg/L	3.35	106	(0%-20%)		
Magnesium	2.00		45.2		47.5	mg/L	0.971	N/A	(0%-20%)		
Manganese	0.0500		5.33		5.24	mg/L	2.85	N/A	(0%-20%)	PRB	02/15/24 14:22
Molybdenum	0.0500	U	ND		0.0567	mg/L	0.922	113	(0%-20%)	BAJ	02/13/24 22:24
Potassium	2.00		19.4		22.0	mg/L	1.35	N/A	(0%-20%)		
Selenium	0.0500		0.0164		0.0718	mg/L	0.0125	111	(0%-20%)		
Sodium	2.00		67.7		66.9	mg/L	0.242	N/A	(0%-20%)		02/14/24 12:16
Thallium	0.0500	U	ND		0.0421	mg/L	1.06	83.5	(0%-20%)		02/13/24 22:24
QC1205638463 653855001 SDILT											
Antimony		U	ND	U	ND	ug/L	N/A		(0%-20%)		02/13/24 22:30
Arsenic			5.16	U	ND	ug/L	N/A		(0%-20%)		

QC Summary

Workorder: **653855**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2562401										
Barium		51.5		11.9	ug/L	15.7		(0%-20%)	BAJ	02/13/24 22:30
Beryllium		2.69		0.564	ug/L	4.72		(0%-20%)		
Boron		128		26.5	ug/L	3.3		(0%-20%)		02/14/24 12:17
Cadmium	J	0.792	U	ND	ug/L	N/A		(0%-20%)		02/13/24 22:30
Calcium		28100		5830	ug/L	3.76		(0%-20%)		02/14/24 12:17
Chromium	U	ND	U	ND	ug/L	N/A		(0%-20%)		02/13/24 22:30
Cobalt		98.8		20.4	ug/L	3.31		(0%-20%)		
Iron	J	37.3	U	ND	ug/L	N/A		(0%-20%)		
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Lithium		11.7	U	ND	ug/L	N/A		(0%-20%)		
Magnesium		45200		9390	ug/L	3.92		(0%-20%)		
Manganese		533		110	ug/L	3		(0%-20%)	PRB	02/15/24 14:26
Molybdenum	U	ND	U	ND	ug/L	N/A		(0%-20%)	BAJ	02/13/24 22:30
Potassium		19400		3810	ug/L	1.91		(0%-20%)		
Selenium		16.4	J	3.45	ug/L	5.08		(0%-20%)		

QC Summary

Workorder: **653855**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2562401										
Sodium		6770		1330	ug/L	1.7		(0%-20%)	BAJ	02/14/24 12:17
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)		02/13/24 22:30
Metals Analysis-Mercury										
Batch 2562605										
QC1205638921 653855001 DUP										
Mercury	U	ND	U	ND	mg/L	N/A			JP2	02/05/24 12:21
QC1205638920 LCS										
Mercury	0.00200			0.00213	mg/L		106	(80%-120%)		02/05/24 12:18
QC1205638919 MB										
Mercury			U	ND	mg/L					02/05/24 12:17
QC1205638922 653855001 MS										
Mercury	0.00200	U	ND	0.00132	mg/L		65.5*	(75%-125%)		02/05/24 12:23
QC1205638924 653855001 PS										
Mercury	2.00	U	ND	1.35	ug/L		67.1*	(80%-120%)		02/05/24 12:26
QC1205638923 653855001 SDILT										
Mercury	U	ND	U	ND	ug/L	N/A		(0%-10%)		02/05/24 12:25
Solids Analysis										
Batch 2564661										
QC1205642691 653855005 DUP										
Total Dissolved Solids		393		389	mg/L	1.02		(0%-5%)	ES2	02/07/24 08:48
QC1205642690 LCS										
Total Dissolved Solids	300			293	mg/L		97.7	(95%-105%)		02/07/24 08:48
QC1205642689 MB										
Total Dissolved Solids			U	ND	mg/L					02/07/24 08:48

QC Summary

Workorder: **653855**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Spectrometric Analysis										
Batch 2562451										
QC1205638594 LCS										
Total Sulfide	0.400			0.403	mg/L		101	(85%-115%)	JW2	02/01/24 16:54
QC1205638593 MB										
Total Sulfide			U	ND	mg/L					02/01/24 16:54
QC1205638595 653853001 PS										
Total Sulfide	0.400 U	ND		0.279	mg/L		69.9*	(75%-125%)		02/01/24 16:54
QC1205638597 653855010 PS										
Total Sulfide	0.400 U	ND		0.234	mg/L		58.6*	(75%-125%)		02/01/24 16:55
QC1205638596 653853001 PSD										
Total Sulfide	0.400 U	ND		0.276	mg/L	1.14	69.1*	(0%-15%)		02/01/24 16:54
QC1205638598 653855010 PSD										
Total Sulfide	0.400 U	ND		0.229	mg/L	2.27	57.2*	(0%-15%)		02/01/24 16:55
Titration and Ion Analysis										
Batch 2562772										
QC1205639166 LCS										
Alkalinity, Total as CaCO3	50.0			51.8	mg/L		104	(90%-110%)	JW2	02/02/24 10:44
QC1205639167 LCS										
Alkalinity, Total as CaCO3	15.0			15.9	mg/L		106	(90%-110%)		02/02/24 10:47
QC1205639168 LCSD										
Alkalinity, Total as CaCO3	50.0			51.6	mg/L	0.387	103	(0%-20%)		02/02/24 10:46
QC1205639169 LCSD										
Alkalinity, Total as CaCO3	15.0			15.9	mg/L	0	106	(0%-20%)		02/02/24 10:48

Notes:

The Qualifiers in this report are defined as follows:

QC Summary

Workorder: **653855**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
N	Metals--The Matrix spike sample recovery is not within specified control limits
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
Z	Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
d	5-day BOD--The 2:1 depletion requirement was not met for this sample
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
E	%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
E	General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
FB	Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
R	Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.
B	The target analyte was detected in the associated blank.
e	5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes
J	See case narrative for an explanation

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

QC Summary

Report Date: February 14, 2024

Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia

Contact: **Joju Abraham**

Workorder: **653575**

Parmname	NOM		Sample	Qual	QC	Units	RPD%		REC%	Range	Anlst	Date	Time
Ion Chromatography													
Batch 2561599													
QC1205637122 653570001 DUP													
Chloride			2.14		2.13	mg/L	0.501			(0%-20%)	CH6	01/31/24	17:39
Fluoride			0.184		0.189	mg/L	2.79	^		(+/-0.100)			
Nitrate-N			0.275		0.273	mg/L	0.803	^		(+/-0.100)			
Sulfate			0.423		0.411	mg/L	2.83	^		(+/-0.400)			
QC1205637124 653582003 DUP													
Chloride			6.36		6.34	mg/L	0.331			(0%-20%)		02/01/24	01:22
Fluoride			0.242		0.245	mg/L	1.23	^		(+/-0.100)			
Nitrate-N		J	0.0660	U	ND	mg/L	200	^					
Sulfate			42.4		42.2	mg/L	0.475			(0%-20%)		02/01/24	18:29
QC1205637121 LCS													
Chloride	5.00				4.83	mg/L			96.7	(90%-110%)		01/31/24	16:06
Fluoride	2.50				2.39	mg/L			95.6	(90%-110%)			
Nitrate-N	2.50				2.39	mg/L			95.5	(90%-110%)			
Sulfate	10.0				9.77	mg/L			97.7	(90%-110%)			
QC1205637120 MB													
Chloride				U	ND	mg/L						01/31/24	15:36

QC Summary

Workorder: **653575**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography											
Batch 2561599											
Fluoride				U	ND	mg/L				CH6	01/31/24 15:36
Nitrate-N				U	ND	mg/L					
Sulfate				U	ND	mg/L					
QC1205637123 653570001 PS											
Chloride	5.00		2.14		7.30	mg/L		103	(90%-110%)		01/31/24 17:08
Fluoride	2.50		0.184		2.62	mg/L		97.5	(90%-110%)		
Nitrate-N	2.50		0.275		2.68	mg/L		96	(90%-110%)		
Sulfate	10.0		0.423		10.3	mg/L		98.4	(90%-110%)		
QC1205637125 653582003 PS											
Chloride	5.00		6.36		12.1	mg/L		115*	(90%-110%)		02/01/24 01:53
Fluoride	2.50		0.242		2.67	mg/L		97.1	(90%-110%)		
Nitrate-N	2.50	J	0.0660		2.45	mg/L		95.5	(90%-110%)		
Sulfate	10.0		8.49		18.9	mg/L		104	(90%-110%)		02/02/24 22:46
Metals Analysis - ICPMS											
Batch 2561630											
QC1205637184 LCS											
Antimony	0.0500				0.0489	mg/L		97.9	(80%-120%)	PRB	02/10/24 00:33
Arsenic	0.0500				0.0497	mg/L		99.4	(80%-120%)		
Barium	0.0500				0.0517	mg/L		103	(80%-120%)		

QC Summary

Workorder: **653575**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2561630										
Beryllium	0.0500			0.0563	mg/L		113	(80%-120%)	PRB	02/10/24 00:33
Boron	0.100			0.113	mg/L		113	(80%-120%)		02/12/24 13:08
Cadmium	0.0500			0.0505	mg/L		101	(80%-120%)		02/10/24 00:33
Calcium	2.00			2.14	mg/L		107	(80%-120%)		02/12/24 13:08
Chromium	0.0500			0.0488	mg/L		97.5	(80%-120%)		02/10/24 00:33
Cobalt	0.0500			0.0499	mg/L		99.8	(80%-120%)		
Iron	2.00			1.97	mg/L		98.4	(80%-120%)		
Lead	0.0500			0.0495	mg/L		98.9	(80%-120%)		
Lithium	0.0500			0.0535	mg/L		107	(80%-120%)		
Magnesium	2.00			2.24	mg/L		112	(80%-120%)		02/12/24 13:08
Manganese	0.0500			0.0506	mg/L		101	(80%-120%)		02/13/24 09:46
Molybdenum	0.0500			0.0522	mg/L		104	(80%-120%)		02/10/24 00:33
Potassium	2.00			2.06	mg/L		103	(80%-120%)		
Selenium	0.0500			0.0501	mg/L		100	(80%-120%)		
Sodium	2.00			2.09	mg/L		105	(80%-120%)		

QC Summary

Workorder: **653575**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2561630										
Thallium	0.0500			0.0486	mg/L		97.1	(80%-120%)	PRB	02/10/24 00:33
QC1205637183 MB										
Antimony			U	ND	mg/L					02/10/24 00:30
Arsenic			U	ND	mg/L					
Barium			U	ND	mg/L					
Beryllium			U	ND	mg/L					
Boron			U	ND	mg/L					02/12/24 13:07
Cadmium			U	ND	mg/L					02/10/24 00:30
Calcium			U	ND	mg/L					02/12/24 13:07
Chromium			U	ND	mg/L					02/10/24 00:30
Cobalt			U	ND	mg/L					
Iron			U	ND	mg/L					
Lead			U	ND	mg/L					
Lithium			U	ND	mg/L					
Magnesium			U	ND	mg/L					02/12/24 13:07
Manganese			U	ND	mg/L					02/13/24 09:44

QC Summary

Workorder: **653575**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2561630											
Molybdenum				U	ND	mg/L				PRB	02/10/24 00:30
Potassium				U	ND	mg/L					
Selenium				U	ND	mg/L					
Sodium				U	ND	mg/L					
Thallium				U	ND	mg/L					
QC1205637185 653570001 MS											
Antimony	0.0500	U	ND		0.0501	mg/L		100	(75%-125%)		02/10/24 00:39
Arsenic	0.0500	U	ND		0.0502	mg/L		99.2	(75%-125%)		
Barium	0.0500		0.0137		0.0660	mg/L		105	(75%-125%)		
Beryllium	0.0500	U	ND		0.0590	mg/L		118	(75%-125%)		
Boron	0.100	U	ND		0.117	mg/L		113	(75%-125%)		02/12/24 13:12
Cadmium	0.0500	U	ND		0.0504	mg/L		101	(75%-125%)		02/10/24 00:39
Calcium	2.00		5.25		7.52	mg/L		114	(75%-125%)		02/12/24 13:12
Chromium	0.0500	J	0.00854		0.0593	mg/L		102	(75%-125%)		02/10/24 00:39
Cobalt	0.0500	J	0.000962		0.0528	mg/L		104	(75%-125%)		
Iron	2.00		0.119		2.17	mg/L		102	(75%-125%)		

QC Summary

Workorder: **653575**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2561630											
Lead	0.0500	U	ND		0.0500	mg/L		99.9	(75%-125%)	PRB	02/10/24 00:39
Lithium	0.0500	U	ND		0.0565	mg/L		112	(75%-125%)		
Magnesium	2.00		5.36		7.64	mg/L		114	(75%-125%)		02/12/24 13:12
Manganese	0.0500		0.0378		0.0910	mg/L		106	(75%-125%)		02/13/24 09:50
Molybdenum	0.0500	U	ND		0.0533	mg/L		107	(75%-125%)		02/10/24 00:39
Potassium	2.00		0.443		2.53	mg/L		104	(75%-125%)		
Selenium	0.0500	U	ND		0.0507	mg/L		101	(75%-125%)		
Sodium	2.00		3.51		5.63	mg/L		106	(75%-125%)		
Thallium	0.0500	U	ND		0.0487	mg/L		97.4	(75%-125%)		
QC1205637186 653570001 MSD											
Antimony	0.0500	U	ND		0.0507	mg/L	1.1	101	(0%-20%)		02/10/24 00:42
Arsenic	0.0500	U	ND		0.0511	mg/L	1.87	101	(0%-20%)		
Barium	0.0500		0.0137		0.0668	mg/L	1.3	106	(0%-20%)		
Beryllium	0.0500	U	ND		0.0605	mg/L	2.57	121	(0%-20%)		
Boron	0.100	U	ND		0.120	mg/L	3.14	117	(0%-20%)		02/12/24 13:13
Cadmium	0.0500	U	ND		0.0510	mg/L	1.22	102	(0%-20%)		02/10/24 00:42

QC Summary

Workorder: **653575**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2561630											
Calcium	2.00		5.25		7.64	mg/L	1.52	119	(0%-20%)	PRB	02/12/24 13:13
Chromium	0.0500	J	0.00854		0.0592	mg/L	0.14	101	(0%-20%)		02/10/24 00:42
Cobalt	0.0500	J	0.000962		0.0531	mg/L	0.648	104	(0%-20%)		
Iron	2.00		0.119		2.21	mg/L	2.09	105	(0%-20%)		
Lead	0.0500	U	ND		0.0512	mg/L	2.45	102	(0%-20%)		
Lithium	0.0500	U	ND		0.0571	mg/L	1.03	113	(0%-20%)		
Magnesium	2.00		5.36		7.84	mg/L	2.67	124	(0%-20%)		02/12/24 13:13
Manganese	0.0500		0.0378		0.0910	mg/L	0.0418	106	(0%-20%)		02/13/24 09:52
Molybdenum	0.0500	U	ND		0.0540	mg/L	1.23	108	(0%-20%)		02/10/24 00:42
Potassium	2.00		0.443		2.59	mg/L	2.49	107	(0%-20%)		
Selenium	0.0500	U	ND		0.0514	mg/L	1.48	103	(0%-20%)		
Sodium	2.00		3.51		5.75	mg/L	2.27	112	(0%-20%)		
Thallium	0.0500	U	ND		0.0494	mg/L	1.48	98.8	(0%-20%)		
QC1205637187 653570001 SDILT											
Antimony		U	ND	U	ND	ug/L	N/A		(0%-20%)		02/10/24 00:47
Arsenic		U	ND	U	ND	ug/L	N/A		(0%-20%)		

QC Summary

Workorder: **653575**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2561630										
Barium		13.7	J	2.52	ug/L	7.99		(0%-20%)	PRB	02/10/24 00:47
Beryllium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Boron	U	ND	U	ND	ug/L	N/A		(0%-20%)		02/12/24 13:15
Cadmium	U	ND	U	ND	ug/L	N/A		(0%-20%)		02/10/24 00:47
Calcium		5250		1040	ug/L	.721		(0%-20%)		02/12/24 13:15
Chromium	J	8.54	U	ND	ug/L	N/A		(0%-20%)		02/10/24 00:47
Cobalt	J	0.962	U	ND	ug/L	N/A		(0%-20%)		
Iron		119	U	ND	ug/L	N/A		(0%-20%)		
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Lithium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Magnesium		5360		997	ug/L	7.04		(0%-20%)		02/12/24 13:15
Manganese		37.8		7.44	ug/L	1.55		(0%-20%)		02/13/24 09:56
Molybdenum	U	ND	U	ND	ug/L	N/A		(0%-20%)		02/10/24 00:47
Potassium		443	J	82.7	ug/L	6.62		(0%-20%)		
Selenium	U	ND	U	ND	ug/L	N/A		(0%-20%)		

QC Summary

Workorder: **653575**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2561630										
Sodium		3510		643	ug/L	8.27		(0%-20%)	PRB	02/10/24 00:47
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Metals Analysis-Mercury										
Batch 2561614										
QC1205637176 653616001 DUP										
Mercury	U	ND	U	ND	mg/L	N/A			JP2	02/02/24 13:24
QC1205637172 LCS										
Mercury	0.00200			0.00174	mg/L		86.8	(80%-120%)		02/02/24 12:47
QC1205637171 MB										
Mercury			U	ND	mg/L					02/02/24 12:45
QC1205637177 653616001 MS										
Mercury	0.00200	U	ND	0.00180	mg/L		89.2	(75%-125%)		02/02/24 13:26
QC1205637178 653616001 SDILT										
Mercury	U	ND	U	ND	ug/L	N/A		(0%-10%)		02/02/24 13:28
Solids Analysis										
Batch 2563910										
QC1205641440 653575002 DUP										
Total Dissolved Solids		502		509	mg/L	1.38		(0%-5%)	ES2	02/06/24 08:07
QC1205641438 LCS										
Total Dissolved Solids	300			297	mg/L		99	(95%-105%)		02/06/24 08:07
QC1205641437 MB										
Total Dissolved Solids			U	ND	mg/L					02/06/24 08:07

QC Summary

Workorder: **653575**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Spectrometric Analysis										
Batch 2561631										
QC1205637189 LCS										
Total Sulfide	0.400			0.401	mg/L		100	(85%-115%)	JW2	01/31/24 16:37
QC1205637188 MB										
Total Sulfide			U	ND	mg/L					01/31/24 16:37
QC1205637190 653570001 PS										
Total Sulfide	0.400 U	ND		0.421	mg/L		105	(75%-125%)		01/31/24 16:38
QC1205637192 653582003 PS										
Total Sulfide	0.400 U	ND		0.294	mg/L		73.5*	(75%-125%)		01/31/24 16:38
QC1205637191 653570001 PSD										
Total Sulfide	0.400 U	ND		0.418	mg/L	0.75	104	(0%-15%)		01/31/24 16:38
QC1205637193 653582003 PSD										
Total Sulfide	0.400 U	ND		0.289	mg/L	1.8	72.2*	(0%-15%)		01/31/24 16:38
Titration and Ion Analysis										
Batch 2561936										
QC1205637749 LCS										
Alkalinity, Total as CaCO3	50.0			52.3	mg/L		105	(90%-110%)	JW2	02/01/24 10:50
QC1205637750 LCS										
Alkalinity, Total as CaCO3	15.0			15.1	mg/L		101	(90%-110%)		02/01/24 10:54
QC1205637751 LCSD										
Alkalinity, Total as CaCO3	50.0			52.1	mg/L	0.383	104	(0%-20%)		02/01/24 10:52
QC1205637752 LCSD										
Alkalinity, Total as CaCO3	15.0			15.2	mg/L	0.66	101	(0%-20%)		02/01/24 10:55

Notes:

The Qualifiers in this report are defined as follows:

QC Summary

Workorder: **653575**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
N	Metals--The Matrix spike sample recovery is not within specified control limits
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
Z	Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
d	5-day BOD--The 2:1 depletion requirement was not met for this sample
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
E	%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
E	General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
FB	Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
R	Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.
B	The target analyte was detected in the associated blank.
e	5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes
J	See case narrative for an explanation

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Technical Case Narrative
Georgia Power Company
SDG #: 653855

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2562401

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 14
Preparation Batch: 2562399

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
653855001	BRA-BRGWC-33S
653855002	BRA-BRGWC-34S
653855003	BRA-BRGWC-36S
653855004	BRA-BRGWC-37S
653855005	BRA-BRGWC-38S
653855006	BRA-APE-EB-09
653855007	BRA-APE-FB-08
653855008	BRA-PZ-52D
653855009	BRA-PZ-53D
653855010	BRA-PZ-70I
653855011	BRA-APE-FD-05
653855012	BRA-APE-EB-10
1205638459	Method Blank (MB)**ICP-MS**
1205638460	Laboratory Control Sample (LCS)
1205638463	653855001(BRA-BRGWC-33SL) Serial Dilution (SD)
1205638461	653855001(BRA-BRGWC-33SS) Matrix Spike (MS)
1205638462	653855001(BRA-BRGWC-33SSD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target

analyte concentrations into the linear calibration range. Samples 653855001 (BRA-BRGWC-33S), 653855002 (BRA-BRGWC-34S), 653855003 (BRA-BRGWC-36S), 653855005 (BRA-BRGWC-38S), 653855008 (BRA-PZ-52D), 653855009 (BRA-PZ-53D), 653855010 (BRA-PZ-70I) and 653855011 (BRA-APE-FD-05) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument.

Analyte	653855							
	001	**002**	**003**	**005**	**008**	**009**	**010**	**011**
Boron	10X	20X	10X	10X	1X	10X	10X	10X
Calcium	10X	20X	1X	1X	1X	10X	1X	10X
Manganese	10X	20X	1X	10X	1X	1X	1X	10X
Sodium	10X	1X	1X	1X	10X	1X	1X	10X

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**
Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 40
Analytical Batch: 2562605

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 40
Preparation Batch: 2562604

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
653855001	BRA-BRGWC-33S
653855002	BRA-BRGWC-34S
653855003	BRA-BRGWC-36S
653855004	BRA-BRGWC-37S
653855005	BRA-BRGWC-38S
653855006	BRA-APE-EB-09
653855007	BRA-APE-FB-08
653855008	BRA-PZ-52D
653855009	BRA-PZ-53D
653855010	BRA-PZ-70I
653855011	BRA-APE-FD-05
653855012	BRA-APE-EB-10
1205638919	Method Blank (MB)**CVAA**
1205638920	Laboratory Control Sample (LCS)
1205638923	653855001(BRA-BRGWC-33SL) Serial Dilution (SD)
1205638921	653855001(BRA-BRGWC-33SD) Sample Duplicate (DUP)
1205638922	653855001(BRA-BRGWC-33SS) Matrix Spike (MS)
1205638924	653855001(BRA-BRGWC-33SPS) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Matrix Spike (MS/MSD) Recovery Statement
The percent recoveries (%R) obtained from the MS/MSD analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The MS/MSD (See Below) did not meet the recommended quality control acceptance criteria for percent recoveries for the following applicable analyte. The post spike also did not meet the required control limits; thus, confirming matrix interferences and/or sample non-homogeneity.

Sample	Analyte	Value
1205638922 (BRA-BRGWC-33SMS)	Mercury	65.5* (75%-125%)

Post Spike (PS) Recovery Statement
The percent recoveries (%R) obtained from the PS analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The PS did not meet the recommended quality control acceptance criteria for percent recoveries for all applicable analytes and verifies the presence of matrix interferences.

Sample	Analyte	Value
1205638924 (BRA-BRGWC-33SPS)	Mercury	67.1* (80%-120%)

General Chemistry

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 34
Analytical Batch: 2562344

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
653855001	BRA-BRGWC-33S
653855002	BRA-BRGWC-34S
653855003	BRA-BRGWC-36S
653855004	BRA-BRGWC-37S
653855005	BRA-BRGWC-38S
653855006	BRA-APE-EB-09
653855007	BRA-APE-FB-08
653855008	BRA-PZ-52D
653855009	BRA-PZ-53D
653855010	BRA-PZ-70I
653855011	BRA-APE-FD-05
653855012	BRA-APE-EB-10
1205638341	Method Blank (MB)
1205638342	Laboratory Control Sample (LCS)
1205638343	653853001(BRA-BRGWC-29I) Sample Duplicate (DUP)
1205638344	653853001(BRA-BRGWC-29I) Post Spike (PS)
1205638345	653855010(BRA-PZ-70I) Sample Duplicate (DUP)
1205638346	653855010(BRA-PZ-70I) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Matrix Spike (MS)/Post Spike (PS) Recovery Statement
The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Chloride	1205638344 (BRA-BRGWC-29IPS)	116* (90%-110%)
	1205638346 (BRA-PZ-70IPS)	113* (90%-110%)
Sulfate	1205638346 (BRA-PZ-70IPS)	111* (90%-110%)

Technical Information

Sample Dilutions
The following samples 1205638343 (BRA-BRGWC-29IDUP), 1205638344 (BRA-BRGWC-29IPS), 1205638345 (BRA-PZ-70IDUP), 1205638346 (BRA-PZ-70IPS), 653855001 (BRA-BRGWC-33S), 653855002 (BRA-BRGWC-34S), 653855003 (BRA-BRGWC-36S), 653855005 (BRA-BRGWC-38S), 653855008 (BRA-PZ-52D), 653855009 (BRA-PZ-53D), 653855010 (BRA-PZ-70I) and 653855011 (BRA-APE-FD-05) were diluted because target analyte concentrations exceeded the calibration range. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	653855							
	001	002	003	005	008	009	010	011
Chloride	100X	25X	1X	1X	1X	1X	1X	100X
Sulfate	100X	25X	20X	20X	10X	25X	10X	100X

Miscellaneous Information

Manual Integrations
Samples 1205638345 (BRA-PZ-70IDUP), 653855002 (BRA-BRGWC-34S), 653855003 (BRA-BRGWC-36S), 653855005 (BRA-BRGWC-38S), 653855008 (BRA-PZ-52D), 653855009 (BRA-PZ-53D) and 653855010 (BRA-PZ-70I) were manually integrated to correctly position the baseline as set in the calibration standards.

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 21
Analytical Batch: 2564661

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID# **Client Sample Identification**

653855001	BRA-BRGWC-33S
653855002	BRA-BRGWC-34S
653855003	BRA-BRGWC-36S
653855004	BRA-BRGWC-37S
653855005	BRA-BRGWC-38S
653855006	BRA-APE-EB-09
653855007	BRA-APE-FB-08
653855008	BRA-PZ-52D
653855009	BRA-PZ-53D
653855010	BRA-PZ-70I
653855011	BRA-APE-FD-05
653855012	BRA-APE-EB-10
1205642689	Method Blank (MB)
1205642690	Laboratory Control Sample (LCS)
1205642691	653855005(BRA-BRGWC-38S) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments
A reduced aliquot was used due to matrix interference. 653855001 (BRA-BRGWC-33S) and 653855011 (BRA-APE-FD-05). A TDS meter was used to check the samples for interference prior to analysis. 653855001 (BRA-BRGWC-33S) and 653855011 (BRA-APE-FD-05).

Product: **Sulfide, Total**
Analytical Method: SM 4500-S (2-) D
Analytical Procedure: GL-GC-E-052 REV# 13
Analytical Batch: 2562451

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
653855001	BRA-BRGWC-33S
653855002	BRA-BRGWC-34S
653855003	BRA-BRGWC-36S
653855004	BRA-BRGWC-37S
653855005	BRA-BRGWC-38S
653855006	BRA-APE-EB-09
653855007	BRA-APE-FB-08
653855008	BRA-PZ-52D
653855009	BRA-PZ-53D
653855010	BRA-PZ-70I
653855011	BRA-APE-FD-05
653855012	BRA-APE-EB-10
1205638593	Method Blank (MB)
1205638594	Laboratory Control Sample (LCS)
1205638595	653853001(BRA-BRGWC-29I) Post Spike (PS)
1205638596	653853001(BRA-BRGWC-29I) Post Spike Duplicate (PSD)

1205638597	653855010(BRA-PZ-70I) Post Spike (PS)
1205638598	653855010(BRA-PZ-70I) Post Spike Duplicate (PSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Matrix Spike (MS)/Post Spike (PS) Recovery Statement
The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Total Sulfide	1205638595 (BRA-BRGWC-29IPS)	69.9* (75%-125%)
	1205638596 (BRA-BRGWC-29IPSD)	69.1* (75%-125%)
	1205638597 (BRA-PZ-70IPS)	58.6* (75%-125%)
	1205638598 (BRA-PZ-70IPSD)	57.2* (75%-125%)

Product: **Alkalinity**
Analytical Method: SM 2320B
Analytical Procedure: GL-GC-E-033 REV# 16
Analytical Batch: 2562772

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
653855001	BRA-BRGWC-33S
653855002	BRA-BRGWC-34S
653855003	BRA-BRGWC-36S
653855004	BRA-BRGWC-37S
653855005	BRA-BRGWC-38S
653855006	BRA-APE-EB-09
653855007	BRA-APE-FB-08
653855008	BRA-PZ-52D
653855009	BRA-PZ-53D
653855010	BRA-PZ-70I
653855011	BRA-APE-FD-05
653855012	BRA-APE-EB-10
1205639166	Laboratory Control Sample (LCS)
1205639167	Laboratory Control Sample (LCS)
1205639168	Laboratory Control Sample Duplicate (LCSD)
1205639169	Laboratory Control Sample Duplicate (LCSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Laboratory Control Sample Duplicate (LCSD)
An LCSD was used in place of matrix QC due to limited sample volume.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Technical Case Narrative
Georgia Power Company
SDG #: 653575

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2561630

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 14
Preparation Batch: 2561629

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
653575001	BRA-BRGWC-17S
653575002	BRA-BRGWC-35S
653575003	BRA-PZ-13S
653575004	BRA-APE-FD-04
653575005	BRA-APE-FB-07
1205637183	Method Blank (MB)**ICP-MS**
1205637184	Laboratory Control Sample (LCS)
1205637187	653570001(BRA-BRGWA-2SL) Serial Dilution (SD)
1205637185	653570001(BRA-BRGWA-2SS) Matrix Spike (MS)
1205637186	653570001(BRA-BRGWA-2SSD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

CRDL/PQL Requirements
The CRDL standard recoveries for SW846 6020B met the advisory control limits with the exception of the calcium. Client sample concentrations were less than the MDL or greater than two times the CRDL; therefore the data were not adversely affected.

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples 653575001 (BRA-BRGWC-17S), 653575002 (BRA-BRGWC-35S) and 653575004 (BRA-APE-FD-04) were diluted to ensure that the analyte concentrations were

within the linear calibration range of the instrument.

Analyte	653575		
	001	002	004
Boron	1X	20X	20X
Calcium	10X	20X	20X

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**
Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 40
Analytical Batch: 2561614

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 40
Preparation Batch: 2561613

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
653575001	BRA-BRGWC-17S
653575002	BRA-BRGWC-35S
653575003	BRA-PZ-13S
653575004	BRA-APE-FD-04
653575005	BRA-APE-FB-07
1205637171	Method Blank (MB)**CVAA**
1205637172	Laboratory Control Sample (LCS)
1205637178	653616001(NonSDGL) Serial Dilution (SD)
1205637176	653616001(NonSDGD) Sample Duplicate (DUP)
1205637177	653616001(NonSDGS) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

General Chemistry

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 34
Analytical Batch: 2561599

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
653575001	BRA-BRGWC-17S
653575002	BRA-BRGWC-35S

653575003	BRA-PZ-13S
653575004	BRA-APE-FD-04
653575005	BRA-APE-FB-07
1205637120	Method Blank (MB)
1205637121	Laboratory Control Sample (LCS)
1205637122	653570001(BRA-BRGWA-2S) Sample Duplicate (DUP)
1205637123	653570001(BRA-BRGWA-2S) Post Spike (PS)
1205637124	653582003(BRA-PZ-44) Sample Duplicate (DUP)
1205637125	653582003(BRA-PZ-44) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Matrix Spike (MS)/Post Spike (PS) Recovery Statement
The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Chloride	1205637125 (BRA-PZ-44PS)	115* (90%-110%)

Technical Information

Sample Dilutions
The following samples 1205637124 (BRA-PZ-44DUP), 1205637125 (BRA-PZ-44PS), 653575001 (BRA-BRGWC-17S), 653575002 (BRA-BRGWC-35S), 653575003 (BRA-PZ-13S) and 653575004 (BRA-APE-FD-04) were diluted because target analyte concentrations exceeded the calibration range. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	653575			
	001	002	003	004
Sulfate	20X	20X	5X	20X

Sample Re-analysis
Sample 1205637125 (BRA-PZ-44PS) was reanalyzed due to PS failure. The reanalysis data was reported.

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 21
Analytical Batch: 2563910

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
653575001	BRA-BRGWC-17S
653575002	BRA-BRGWC-35S
653575003	BRA-PZ-13S
653575004	BRA-APE-FD-04
653575005	BRA-APE-FB-07
1205641437	Method Blank (MB)
1205641438	Laboratory Control Sample (LCS)
1205641440	653575002(BRA-BRGWC-35S) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **Sulfide, Total**
Analytical Method: SM 4500-S (2-) D
Analytical Procedure: GL-GC-E-052 REV# 13
Analytical Batch: 2561631

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
653575001	BRA-BRGWC-17S
653575002	BRA-BRGWC-35S
653575003	BRA-PZ-13S
653575004	BRA-APE-FD-04
653575005	BRA-APE-FB-07
1205637188	Method Blank (MB)
1205637189	Laboratory Control Sample (LCS)
1205637190	653570001(BRA-BRGWA-2S) Post Spike (PS)
1205637191	653570001(BRA-BRGWA-2S) Post Spike Duplicate (PSD)
1205637192	653582003(BRA-PZ-44) Post Spike (PS)
1205637193	653582003(BRA-PZ-44) Post Spike Duplicate (PSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Matrix Spike (MS)/Post Spike (PS) Recovery Statement
The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Total Sulfide	1205637192 (BRA-PZ-44PS)	73.5* (75%-125%)
	1205637193 (BRA-PZ-44PSD)	72.2* (75%-125%)

Product: **Alkalinity**
Analytical Method: SM 2320B
Analytical Procedure: GL-GC-E-033 REV# 16
Analytical Batch: 2561936

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
653575001	BRA-BRGWC-17S
653575002	BRA-BRGWC-35S
653575003	BRA-PZ-13S
653575004	BRA-APE-FD-04
653575005	BRA-APE-FB-07
1205637749	Laboratory Control Sample (LCS)
1205637750	Laboratory Control Sample (LCS)
1205637751	Laboratory Control Sample Duplicate (LCSD)
1205637752	Laboratory Control Sample Duplicate (LCSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Laboratory Control Sample Duplicate (LCSD)
An LCSD was used in place of matrix QC due to limited sample volume.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Page: 1 of 2
Project #:
GEL Quote #:
COC Number [1]:
PO Number: GPC82177-0006

GEL Laboratories LLC 653855 / 653856
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytes
Chain of Custody and Analytical Request
GEL Work Order Number: **GEL Project Manager: Erin Trent**

GEL Laboratories
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power | Phone #: 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - E | Fax #:
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: T Cole ACC | Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested [4] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Hazardous [5] (If yes, please supply sample info.)	Should this sample be considered: Known or possible Hazards	Total number of containers	Cl, F, NO4, TOT, NO3 EPA 300; SM 4500C	Total Carb. & Bicarb Alk SM 2320B	Metals* EPA 6020; 6010; 7470	Radium 226 & 228 SW-846 9315; 9320	Sulfide SM 4500	<-- Preservative Type [6]
BRA- BRGWC-33S	01/31/24	1215	G	N	WG	N	N	8	✓	–	✓	✓	✓	
BRA- BRGWC-34S	01/31/24	1050	G	N	WG	N	N	8	✓	✓	✓	✓	✓	
BRA- BRGWC-36S	01/31/24	0955	G	N	WG	N	N	8	✓	✓	✓	✓	✓	
BRA- BRGWC-37S	01/31/24	1152	G	N	WG	N	N	8	✓	✓	✓	✓	✓	
BRA- BRGWC-38S	01/31/24	1345	G	N	WG	N	N	8	✓	✓	✓	✓	✓	
BRA- APE-EB-09	01/31/24	1030	G	N	WQ	N	N	8	✓	✓	✓	✓	✓	
BRA- APE-FB-08	01/31/24	1500	G	N	WQ	N	N	8	✓	✓	✓	✓	✓	
BRA- PZ-52D	01/31/24	1405	G	N	WG	N	N	8	✓	✓	✓	✓	✓	
BRA- PZ-53D	01/31/24	1555	G	N	WG	N	N	8	✓	✓	✓	✓	✓	
BRA- PZ-70I	01/31/24	1645	G	N	WG	N	N	8	✓	✓	✓	✓	–	

Comments
Note: extra sample is required for sample specific QC
Task_Code: BRA-CCR-ASSMT-2024S1

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	2-1-24	0818	1	2/1/24	0818
2	2/1/24	0934	2	2/1/24	0934
3	2/1/24	100	3	2/1/24	1300

[*] For sample shipping and delivery details, see Sample Receipt & Review form (SRR).

TAT Requested: Normal: x Rush: ____ Specify: ____ (Subject to Surcharge)
Fax Results: [ ] Yes [x] No
Select Deliverable: [ ] C of A [ ] QC Summary [ ] Level 1 [x] Level 2 [ ] Level 3 [ ] Level 4
Additional Remarks: + Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg
For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No Cooler Temp: ____ °C
Sample Collection Time Zone [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

Cooler 1 - 0°
2 - 0°
3 - 1°
4 - 0°
5 - 0°
6 - 1°

[1] Chain of Custody Number = Client Determined
[2] QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite
[3] Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.
[4] Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SD=Sediment, SL=Sludge, WQ=Water Quality Control Matrix
[5] Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).
[6] Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate. If no preservative is added = leave field blank.

7) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic; Hg = Mercury
Ba = Barium; Se = Selenium
Cd = Cadmium; Ag = Silver
Cr = Chromium; MR = Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW = Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT = Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal of samples. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

Page: 2 of 2
Project #:
GEL Quote #:
COC Number [1]:
PO Number: GPC82171-0006

GEL Laboratories LLC 653855/653856
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number:
GEL Project Manager: Erin Trout

GEL Laboratories
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power
Phone #: 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - E
Fax #:
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: T. Gove ACC
Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotope info.)	Should this sample be considered: (*) Known or possible Hazards	Total number of containers	CLP, SOM, SOW, ISM, 8021 EPA 300, 300.1/9056	Total Carb. & Bicarb Alk. SM 2320B	N1 Metals * EPA 6020, 6010, 7470	N1 Radium 226 & 228 SW-846 9315, 9320	Sulfide SM 4500	<-- Preservative Type (6)
BRA- APE-FD-05	01/31/24	—	G	N	WQ	N	N	8	✓	✓	✓	✓	✓	
BRA- APE-EB-10	01/31/24	1555	G	N	WQ	N	N	8	✓	✓	✓	✓	✓	
BRA-														
BRA-														
BRA-														
BRA-														
BRA-														
BRA-														
BRA-														
BRA-														

Comments
Note: extra sample is required for sample specific QC
Task_Code: BRA-CCR-ASSMT-202451

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	2-1-24	0816	1	2/1/24	0816
2	2/1/24	0956	2	2/1/24	0836
3	2/1/24	1100	3	2/1/24	1300

TAT Requested: Normal: x Rush: Specify: (Subject to Surcharge)
Fax Results: [ ] Yes [x] No
Select Deliverable: [ ] C of A [ ] QC Summary [ ] Level 1 [x] Level 2 [ ] Level 3 [ ] Level 4
Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg
For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No Cooler Temp: °C
> For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)
Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other

1.) Chain of Custody Number = Client Determined
2.) QC Codes: N = Normal Sample, TB = Trip Blank, FB = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite
3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered
4.) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix
5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1)
6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic, Ba = Barium, Cd = Cadmium, Cr = Chromium, Pb = Lead, Hg = Mercury, Se = Selenium, Ag = Silver, MR = Misc. RCRA metals

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW = Listed Waste (F,K,P and U-listed wastes.)
Waste code(s):

Other
OT = Other / Unknown (i.e.: High/low pH, asbestos, beryllium, pyrophoric, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal of wastes. (i.e.: Origin of sample(s), type of site collected from, solid matrices, etc.)

653855
653856
653853 ET
653854

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	SDG/AR/COC/Work Order:
Received By: CLM	Date Received: 2/1/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier (Other) Coolers 1-0° 3-1° 5-0° 2-0° 4-0° 6-1°

Suspected Hazard Information	Yes	No	*If Yes or Unknown, Samples are not to be received, contact the Radiation Safety Group for further investigation.
A) Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM / uR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?		✓	COC notation or sample labels indicate client designated hazardous.
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client refused to sign COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)*	✓			Preservation Method: Wet Ice Ice Packs Dry Ice None Other: TEMP: See above with coolers *All temperatures are recorded in Celsius
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR-81 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, size in VOA Freezer) Are liquid VOA vials free of entrapped air or bubbles that are > 6mm (1/4")? Yes___ No___ NA___ Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: Not all sig on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials WS Date 02/02/24 Page 1 of 1

GL-CHL-SR-001 Rev 7

653575/653580

Page: 1 of 1
Project #:
GEL Quote #:
COC Number (1):
PO Number: GPC82137-0006

GEL Laboratories LLC
gel.com | Chemistry / Radiochemistry / Radiobioassay / Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number:
GEL Project Manager: Erin Trent

GEL Laboratories LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power | Phone #: 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - E | Fax #:
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: T. Gehle ACC | Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (24hrs)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	CL F, SO4, TDS, NO3 EPA 300, SM 2540C	Total Calc & Recov Alk SM 2320B	NI Metals * EPA 6020, 6010, 7470	NI Radium 226 & 228 EPA 9315, 9320	Sulfide SM 4500	<-- Preservative Type (6)
BRA- BRGWC-175	01/30/24	1551	G	N	WG	N	N	8	✓	✓	✓	✓	✓	
BRA- BRGWC-355	01/30/24	1200	G	N	WG	N	N	8	✓	✓	✓	✓	✓	
BRA- PZ-135	01/30/24	1545	G	N	WG	N	N	8	✓	✓	✓	✓	✓	
BRA- APE-FD-04	01/30/24	—	G	N	WG	N	N	8	✓	✓	✓	✓	✓	
BRA- APE-FB-07	01/30/24	1420	G	N	WG	N	N	8	✓	✓	✓	✓	✓	
BRA-														
BRA-														
BRA-														
BRA-														
BRA-														

Comments
Note: extra sample is required for sample specific QC
Task Code: BRA-CCR-ASSMT-202481

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1 Taylor Gehle	1-31-24	0820	1	1/31/24	0820
2	1/31/24	0828	2	1/31/24	8:28
3	1/31/24	10:4	3	1/31/24	1030

TAT Requested: Normal: 5 Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [x] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] Level 1 [x] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg

For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No Cooler Temp: °C

> For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.

4.) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).

6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate. If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic, Ba = Barium, Cd = Cadmium, Cr = Chromium, Pb = Lead, Hg = Mercury, Se = Selenium, Ag = Silver, MR = Misc. RCRA metals

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW = Listed Waste (F,K,P and U-listed wastes.)
Waste code(s):

Other
OT = Other / Unknown (i.e.: High/low pH, asbestos, beryllium, tritiums, other toxic, health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, sold matrices, etc.)

653570 653584
653572 653575
653582 653580

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	SDG/AR/COC/Work Order:
Received By: QG	Date Received: 1/31/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other n/a

Suspected Hazard Information	Yes	No	
			*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM/mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?		✓		Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)*	✓			Preservation Method: Wet Ice Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: 7°
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR1-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?		✓		Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?			✓	Sample ID's and Containers Affected: If Preservatives added, Lot#:
7	Do any samples require Volatile Analysis?		✓		If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?		✓		ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?		✓		ID's and containers affected:
10	Date & time on COC match date & time on bottles?			✓	Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?		✓		Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?		✓		
13	COC form is properly signed in relinquished/received sections?		✓		Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials JVS Date 01/02/24 Page 1 of 1

List of current GEL Certifications as of 15 February 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122024-05
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-23-21
Utah NELAP	SC000122023-38
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC
2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

February 28, 2024

Joju Abraham
Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308

Re: Branch CCR Groundwater Compliance APE-R
Work Orders: 653856 and 653580

Dear Joju Abraham:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on January 31, 2024 and February 01, 2024. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Recieved
653580001	BRA-BRGWC-17S	Ground Water	30/01/24 15:51	31/01/24 13:06
653580002	BRA-BRGWC-35S	Ground Water	30/01/24 12:00	31/01/24 13:06
653580003	BRA-PZ-13S	Ground Water	30/01/24 15:45	31/01/24 13:06
653580004	BRA-APE-FD-04	Ground Water	30/01/24 12:00	31/01/24 13:06
653580005	BRA-APE-FB-07	Ground Water	30/01/24 14:20	31/01/24 13:06
653856001	BRA-BRGWC-33S	Ground Water	31/01/24 12:15	01/02/24 13:00
653856002	BRA-BRGWC-34S	Ground Water	31/01/24 10:50	01/02/24 13:00
653856003	BRA-BRGWC-36S	Ground Water	31/01/24 09:55	01/02/24 13:00
653856004	BRA-BRGWC-37S	Ground Water	31/01/24 11:52	01/02/24 13:00
653856005	BRA-BRGWC-38S	Ground Water	31/01/24 13:45	01/02/24 13:00
653856006	BRA-APE-EB-09	Water	31/01/24 10:30	01/02/24 13:00
653856007	BRA-APE-FB-08	Water	31/01/24 15:00	01/02/24 13:00
653856008	BRA-PZ-52D	Ground Water	31/01/24 14:05	01/02/24 13:00
653856009	BRA-PZ-53D	Ground Water	31/01/24 15:55	01/02/24 13:00
653856010	BRA-PZ-70I	Ground Water	31/01/24 16:45	01/02/24 13:00
653856011	BRA-APE-FD-05	Ground Water	31/01/24 12:00	01/02/24 13:00

653856012 BRA-APE-EB-10 Water 31/01/24 15:55 01/02/24 13:00

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Prep Methods and Prep Dates

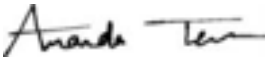
Not Applicable

Analysis Methods and Analysis Dates

Method	Run Date ID
Calculation	27-FEB-2024
Calculation	28-FEB-2024
EPA 903.1 Modified	22-FEB-2024
EPA 903.1 Modified	26-FEB-2024
EPA 904.0/SW846 9320 Modified	23-FEB-2024
EPA 904.0/SW846 9320 Modified	27-FEB-2024

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4504.

Sincerely,



Amanda Turner for
Erin Trent
Project Manager

Purchase Order: GPC82177-0006
Enclosures

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 653580 GEL Work Order: 653580

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

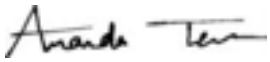
** Analyte is a surrogate compound

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Erin Trent.

Reviewed by 

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 653856 GEL Work Order: 653856

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

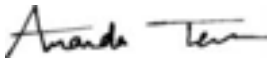
** Analyte is a surrogate compound

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Erin Trent.

Reviewed by 

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: February 28, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPE-R

Client Sample ID: BRA-BRGWC-33S
Sample ID: 653856001
Matrix: WG
Collect Date: 31-JAN-24
Receive Date: 01-FEB-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		1.51	+/-0.895	1.33	+/-0.975	3.00	pCi/L			JE1	02/27/24	0820	2568527	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.66	+/-0.989	1.33	+/-1.08		pCi/L			NXL1	02/28/24	0843	2568537	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		1.15	+/-0.422	0.343	+/-0.454	1.00	pCi/L			LXP1	02/22/24	0822	2563218	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2568527	88.9	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
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Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: February 28, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPE-R

Client Sample ID: BRA-BRGWC-34S
Sample ID: 653856002
Matrix: WG
Collect Date: 31-JAN-24
Receive Date: 01-FEB-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.421	+/-0.751	1.33	+/-0.759	3.00	pCi/L			JE1	02/27/24	0820	2568527	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	1.31	+/-0.819	1.33	+/-0.844		pCi/L			NXL1	02/28/24	0843	2568537	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.888	+/-0.326	0.266	+/-0.370	1.00	pCi/L			LXP1	02/22/24	0822	2563218	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2568527	82.2	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
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Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: February 28, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPE-R

Client Sample ID: BRA-BRGWC-36S
Sample ID: 653856003
Matrix: WG
Collect Date: 31-JAN-24
Receive Date: 01-FEB-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.130	+/-0.646	1.23	+/-0.647	3.00	pCi/L			JE1	02/27/24	0820	2568527	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.31	+/-0.865	1.23	+/-0.946		pCi/L			NXL1	02/28/24	0843	2568537	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		2.18	+/-0.575	0.517	+/-0.690	1.00	pCi/L			LXP1	02/22/24	0822	2563218	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2568527	89.1	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: February 28, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPE-R

Client Sample ID: BRA-BRGWC-37S
Sample ID: 653856004
Matrix: WG
Collect Date: 31-JAN-24
Receive Date: 01-FEB-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.14	+/-0.910	1.44	+/-0.955	3.00	pCi/L			JE1	02/27/24	0820	2568527	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		1.74	+/-0.962	1.44	+/-1.01		pCi/L			NXL1	02/28/24	0843	2568537	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.604	+/-0.313	0.372	+/-0.333	1.00	pCi/L			LXP1	02/22/24	0822	2563218	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2568527	85.7	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: February 28, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPE-R

Client Sample ID: BRA-BRGWC-38S
Sample ID: 653856005
Matrix: WG
Collect Date: 31-JAN-24
Receive Date: 01-FEB-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		2.21	+/-1.15	1.70	+/-1.28	3.00	pCi/L			JE1	02/27/24	0820	2568527	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.98	+/-1.19	1.70	+/-1.33		pCi/L			NXL1	02/28/24	0843	2568537	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.768	+/-0.320	0.245	+/-0.359	1.00	pCi/L			LXP1	02/22/24	0854	2563218	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2568527	84.3	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: February 28, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPE-R

Client Sample ID: BRA-APE-EB-09 Project: GPCC00101
Sample ID: 653856006 Client ID: GPCC001
Matrix: WQ
Collect Date: 31-JAN-24
Receive Date: 01-FEB-24
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.42	+/-0.944	1.42	+/-1.01	3.00	pCi/L			JE1	02/27/24	0821	2568527	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		1.91	+/-0.980	1.42	+/-1.05		pCi/L			NXL1	02/28/24	0843	2568537	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.493	+/-0.263	0.303	+/-0.287	1.00	pCi/L			LXP1	02/22/24	0854	2563218	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2568527	75.1	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: February 28, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPE-R

Client Sample ID: BRA-APE-FB-08 Project: GPCC00101
Sample ID: 653856007 Client ID: GPCC001
Matrix: WQ
Collect Date: 31-JAN-24
Receive Date: 01-FEB-24
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.653	+/-0.753	1.26	+/-0.771	3.00	pCi/L			JE1	02/27/24	0820	2568527	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	0.790	+/-0.811	1.26	+/-0.828		pCi/L			NXL1	02/28/24	0843	2568537	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.137	+/-0.300	0.554	+/-0.301	1.00	pCi/L			LXP1	02/22/24	0854	2563218	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2568527	81.8	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: February 28, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPE-R

Client Sample ID: BRA-PZ-52D
Sample ID: 653856008
Matrix: WG
Collect Date: 31-JAN-24
Receive Date: 01-FEB-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		2.18	+/-1.36	2.14	+/-1.47	3.00	pCi/L			JE1	02/27/24	0821	2568527	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.54	+/-1.38	2.14	+/-1.49		pCi/L			NXL1	02/28/24	0843	2568537	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.360	+/-0.226	0.285	+/-0.234	1.00	pCi/L			LXP1	02/22/24	0854	2563218	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2568527	81.2	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: February 28, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPE-R

Client Sample ID: BRA-PZ-53D
Sample ID: 653856009
Matrix: WG
Collect Date: 31-JAN-24
Receive Date: 01-FEB-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		3.23	+/-1.50	2.18	+/-1.71	3.00	pCi/L			JE1	02/27/24	0940	2568527	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		3.57	+/-1.53	2.18	+/-1.74		pCi/L			NXL1	02/28/24	0843	2568537	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.339	+/-0.266	0.400	+/-0.277	1.00	pCi/L			LXP1	02/22/24	0854	2563218	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2568527	78.7	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: February 28, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPE-R

Client Sample ID: BRA-PZ-70I
Sample ID: 653856010
Matrix: WG
Collect Date: 31-JAN-24
Receive Date: 01-FEB-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.927	+/-0.779	1.23	+/-0.814	3.00	pCi/L			JE1	02/27/24	0821	2568527	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		1.55	+/-0.821	1.23	+/-0.864		pCi/L			NXL1	02/28/24	0843	2568537	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.620	+/-0.258	0.198	+/-0.289	1.00	pCi/L			LXP1	02/22/24	0854	2563218	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2568527	79.9	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Atlanta, Georgia 30308 Report Date: February 28, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPE-R

Client Sample ID: BRA-APE-FD-05
Sample ID: 653856011
Matrix: WG
Collect Date: 31-JAN-24
Receive Date: 01-FEB-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.661	+/-0.767	1.29	+/-0.785	3.00	pCi/L			JE1	02/27/24	0821	2568527	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		1.80	+/-0.857	1.29	+/-0.898		pCi/L			NXL1	02/28/24	0843	2568537	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		1.14	+/-0.383	0.243	+/-0.437	1.00	pCi/L			LXP1	02/22/24	0854	2563218	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2568527	78.7	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Atlanta, Georgia 30308 Report Date: February 28, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPE-R

Client Sample ID: BRA-APE-EB-10 Project: GPCC00101
Sample ID: 653856012 Client ID: GPCC001
Matrix: WQ
Collect Date: 31-JAN-24
Receive Date: 01-FEB-24
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	-0.0787	+/-0.591	1.21	+/-0.591	3.00	pCi/L			JE1	02/27/24	0821	2568527	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	0.263	+/-0.614	1.21	+/-0.618		pCi/L			NXL1	02/28/24	0843	2568537	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.263	+/-0.169	0.183	+/-0.180	1.00	pCi/L			LXP1	02/22/24	0854	2563218	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2568527	78.4	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Atlanta, Georgia 30308 Report Date: February 27, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPE-R

Client Sample ID: BRA-BRGWC-17S
Sample ID: 653580001
Matrix: WG
Collect Date: 30-JAN-24
Receive Date: 31-JAN-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	-0.0690	+/-0.507	1.05	+/-0.508	3.00	pCi/L			JE1	02/23/24	1249	2568518	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		1.36	+/-0.996	1.05	+/-1.02		pCi/L		1	NXL1	02/27/24	0938	2570132	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		1.36	+/-0.857	1.04	+/-0.884	1.00	pCi/L			MJ2	02/26/24	1011	2561841	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2568518	90	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Atlanta, Georgia 30308 Report Date: February 27, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPE-R

Client Sample ID: BRA-BRGWC-35S
Sample ID: 653580002
Matrix: WG
Collect Date: 30-JAN-24
Receive Date: 31-JAN-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.85	+/-1.20	1.88	+/-1.30	3.00	pCi/L			JE1	02/23/24	1249	2568518	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.40	+/-1.29	1.88	+/-1.37		pCi/L		1	NXL1	02/27/24	0938	2570132	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.556	+/-0.452	0.501	+/-0.461	1.00	pCi/L			MJ2	02/26/24	1011	2561841	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2568518	86.7	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Atlanta, Georgia 30308 Report Date: February 27, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPE-R

Client Sample ID: BRA-PZ-13S
Sample ID: 653580003
Matrix: WG
Collect Date: 30-JAN-24
Receive Date: 31-JAN-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.27	+/-1.07	1.73	+/-1.12	3.00	pCi/L			JE1	02/23/24	1249	2568518	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.01	+/-1.25	1.73	+/-1.30		pCi/L		1	NXL1	02/27/24	0938	2570132	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.742	+/-0.657	0.921	+/-0.666	1.00	pCi/L			MJ2	02/26/24	1011	2561841	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2568518	93.5	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Atlanta, Georgia 30308 Report Date: February 27, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPE-R

Client Sample ID: BRA-APE-FD-04 Project: GPCC00101
Sample ID: 653580004 Client ID: GPCC001
Matrix: WG
Collect Date: 30-JAN-24
Receive Date: 31-JAN-24
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.552	+/-0.947	1.66	+/-0.957	3.00	pCi/L			JE1	02/23/24	1249	2568518	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	1.27	+/-1.13	1.66	+/-1.15		pCi/L		1	NXL1	02/27/24	0938	2570132	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.719	+/-0.623	0.897	+/-0.643	1.00	pCi/L			MJ2	02/26/24	1011	2561841	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2568518	82.4	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: February 27, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPE-R

Client Sample ID: BRA-APE-FB-07 Project: GPCC00101
Sample ID: 653580005 Client ID: GPCC001
Matrix: WQ
Collect Date: 30-JAN-24
Receive Date: 31-JAN-24
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.64	+/-1.14	1.78	+/-1.21	3.00	pCi/L			JE1	02/23/24	1250	2568518	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	1.76	+/-1.18	1.78	+/-1.25		pCi/L		1	NXL1	02/27/24	0938	2570132	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.127	+/-0.320	0.670	+/-0.321	1.00	pCi/L			MJ2	02/26/24	1011	2561841	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2568518	81.8	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

QC Summary

Client : **Georgia Power Company, Southern Company**
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia

Contact: **Joju Abraham**

Workorder: **653580**

Report Date: February 27, 2024

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gas Flow										
Batch 2568518										
QC1205650245 653572001 DUP										
Radium-228		2.10	U	1.41	pCi/L	39.2		(0% - 100%)	JE1	02/23/2412:50
	Uncert:	+/-1.28		+/-0.941						
	TPU:	+/-1.39		+/-1.01						
QC1205650246 LCS										
Radium-228	73.9			80.2	pCi/L		109	(75%-125%)	JE1	02/23/2412:50
	Uncert:			+/-4.25						
	TPU:			+/-21.0						
QC1205650244 MB										
Radium-228				2.37	pCi/L				JE1	02/23/2412:50
	Uncert:			+/-1.21						
	TPU:			+/-1.36						
Rad Ra-226										
Batch 2561841										
QC1205637592 653572001 DUP										
Radium-226	U	0.439	U	0.748	pCi/L	0		N/A	MJ2	02/26/2410:29
	Uncert:	+/-0.391		+/-0.667						
	TPU:	+/-0.398		+/-0.676						
QC1205637594 LCS										
Radium-226	26.4			24.7	pCi/L		93.4	(75%-125%)	MJ2	02/26/2410:29
	Uncert:			+/-3.03						
	TPU:			+/-5.48						
QC1205637591 MB										
Radium-226			U	0.197	pCi/L				MJ2	02/26/2410:29
	Uncert:			+/-0.337						
	TPU:			+/-0.340						
QC1205637593 653572001 MS										
Radium-226	135 U	0.439		114	pCi/L		84.3	(75%-125%)	MJ2	02/26/2410:29
	Uncert:	+/-0.391		+/-14.3						
	TPU:	+/-0.398		+/-31.1						

Notes:

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

The Qualifiers in this report are defined as follows:

U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported

QC Summary

Workorder: **653580**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time

UI	Gamma Spectroscopy--Uncertain identification
BD	Results are either below the MDC or tracer recovery is low
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
M	M if above MDC and less than LLD
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
FA	Failed analysis.
UJ	Gamma Spectroscopy--Uncertain identification
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
K	Analyte present. Reported value may be biased high. Actual value is expected to be lower.
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.
L	Analyte present. Reported value may be biased low. Actual value is expected to be higher.
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
**	Analyte is a Tracer compound
M	REMP Result > MDC/CL and < RDL
J	See case narrative for an explanation

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
** Indicates analyte is a surrogate/tracer compound.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptence criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

QC Summary

Client : **Georgia Power Company, Southern Company**
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia

Contact: **Joju Abraham**

Workorder: **653856**

Report Date: February 28, 2024

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gas Flow										
Batch 2568527										
QC1205650270 653854001 DUP										
Radium-228	U	1.00		1.89	pCi/L	61.3		(0% - 100%)	JE1	02/27/2408:20
	Uncert:	+/-1.18		+/-1.14						
	TPU:	+/-1.21		+/-1.23						
QC1205650271 LCS										
Radium-228	72.9			59.5	pCi/L		81.6	(75%-125%)	JE1	02/27/2408:20
	Uncert:			+/-3.71						
	TPU:			+/-15.9						
QC1205650269 MB										
Radium-228			U	0.543	pCi/L				JE1	02/27/2408:20
	Uncert:			+/-0.948						
	TPU:			+/-0.958						
Rad Ra-226										
Batch 2563218										
QC1205639959 653854001 DUP										
Radium-226		2.01		1.67	pCi/L	18.6		(0%-20%)	LXP1	02/22/2409:26
	Uncert:	+/-0.524		+/-0.447						
	TPU:	+/-0.614		+/-0.513						
QC1205639961 LCS										
Radium-226	26.6			29.1	pCi/L		109	(75%-125%)	LXP1	02/22/2409:26
	Uncert:			+/-1.95						
	TPU:			+/-4.97						
QC1205639958 MB										
Radium-226			U	0.137	pCi/L				LXP1	02/22/2409:26
	Uncert:			+/-0.142						
	TPU:			+/-0.145						
QC1205639960 653854001 MS										
Radium-226	93.8	2.01		76.2	pCi/L		79.1	(75%-125%)	LXP1	02/22/2409:26
	Uncert:	+/-0.524		+/-5.42						
	TPU:	+/-0.614		+/-12.6						

Notes:

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

The Qualifiers in this report are defined as follows:

U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported

QC Summary

Workorder: **653856**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time

UI	Gamma Spectroscopy--Uncertain identification
BD	Results are either below the MDC or tracer recovery is low
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
M	M if above MDC and less than LLD
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
FA	Failed analysis.
UJ	Gamma Spectroscopy--Uncertain identification
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
K	Analyte present. Reported value may be biased high. Actual value is expected to be lower.
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.
L	Analyte present. Reported value may be biased low. Actual value is expected to be higher.
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
**	Analyte is a Tracer compound
M	REMP Result > MDC/CL and < RDL
J	See case narrative for an explanation

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
** Indicates analyte is a surrogate/tracer compound.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptence criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Radiochemistry
Technical Case Narrative
Georgia Power Company
SDG #: 653856

Product: **Radium-226+Radium-228 Calculation**
Analytical Method: Calculation
Analytical Procedure: GL-RAD-D-003 REV# 45
Analytical Batch: 2568537

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
653856001	BRA-BRGWC-33S
653856002	BRA-BRGWC-34S
653856003	BRA-BRGWC-36S
653856004	BRA-BRGWC-37S
653856005	BRA-BRGWC-38S
653856006	BRA-APE-EB-09
653856007	BRA-APE-FB-08
653856008	BRA-PZ-52D
653856009	BRA-PZ-53D
653856010	BRA-PZ-70I
653856011	BRA-APE-FD-05
653856012	BRA-APE-EB-10

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **GFPC Ra228, Liquid**
Analytical Method: EPA 904.0/SW846 9320 Modified
Analytical Procedure: GL-RAD-A-063 REV# 5
Analytical Batch: 2568527

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
653856001	BRA-BRGWC-33S
653856002	BRA-BRGWC-34S
653856003	BRA-BRGWC-36S
653856004	BRA-BRGWC-37S
653856005	BRA-BRGWC-38S
653856006	BRA-APE-EB-09
653856007	BRA-APE-FB-08
653856008	BRA-PZ-52D
653856009	BRA-PZ-53D

653856010	BRA-PZ-70I
653856011	BRA-APE-FD-05
653856012	BRA-APE-EB-10
1205650269	Method Blank (MB)
1205650270	653854001(BRA-BRGWC-29I) Sample Duplicate (DUP)
1205650271	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Recounts
Sample 653856009 (BRA-PZ-53D) was recounted due to a suspected false positive. The recount is reported.

Product: **Lucas Cell, Ra226, Liquid**
Analytical Method: EPA 903.1 Modified
Analytical Procedure: GL-RAD-A-008 REV# 15
Analytical Batch: 2563218

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
653856001	BRA-BRGWC-33S
653856002	BRA-BRGWC-34S
653856003	BRA-BRGWC-36S
653856004	BRA-BRGWC-37S
653856005	BRA-BRGWC-38S
653856006	BRA-APE-EB-09
653856007	BRA-APE-FB-08
653856008	BRA-PZ-52D
653856009	BRA-PZ-53D
653856010	BRA-PZ-70I
653856011	BRA-APE-FD-05
653856012	BRA-APE-EB-10
1205639958	Method Blank (MB)
1205639959	653854001(BRA-BRGWC-29I) Sample Duplicate (DUP)
1205639960	653854001(BRA-BRGWC-29I) Matrix Spike (MS)
1205639961	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments
The matrix spike, 1205639960 (BRA-BRGWC-29IMS), aliquot was reduced to conserve sample volume.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Radiochemistry
Technical Case Narrative
Georgia Power Company
SDG #: 653580

Product: **Radium-226+Radium-228 Calculation**
Analytical Method: Calculation
Analytical Procedure: GL-RAD-D-003 REV# 45
Analytical Batch: 2570132

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
653580001	BRA-BRGWC-17S
653580002	BRA-BRGWC-35S
653580003	BRA-PZ-13S
653580004	BRA-APE-FD-04
653580005	BRA-APE-FB-07

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **GFPC Ra228, Liquid**
Analytical Method: EPA 904.0/SW846 9320 Modified
Analytical Procedure: GL-RAD-A-063 REV# 5
Analytical Batch: 2568518

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
653580001	BRA-BRGWC-17S
653580002	BRA-BRGWC-35S
653580003	BRA-PZ-13S
653580004	BRA-APE-FD-04
653580005	BRA-APE-FB-07
1205650244	Method Blank (MB)
1205650245	653572001(BRA-BRGWA-2S) Sample Duplicate (DUP)
1205650246	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Method Blank Criteria
The blank result (See Below) is greater than the MDC but less than the required detection limit.

Sample	Analyte	Value
1205650244 (MB)	Radium-228	Result: 2.37 pCi/L > MDA: 1.79 pCi/L <= RDL: 3.00 pCi/L

Product: **Lucas Cell, Ra226, Liquid**
Analytical Method: EPA 903.1 Modified
Analytical Procedure: GL-RAD-A-008 REV# 15
Analytical Batch: 2561841

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
653580001	BRA-BRGWC-17S
653580002	BRA-BRGWC-35S
653580003	BRA-PZ-13S
653580004	BRA-APE-FD-04
653580005	BRA-APE-FB-07
1205637591	Method Blank (MB)
1205637592	653572001(BRA-BRGWA-2S) Sample Duplicate (DUP)
1205637593	653572001(BRA-BRGWA-2S) Matrix Spike (MS)
1205637594	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments
The matrix spike, 1205637593 (BRA-BRGWA-2SMS), aliquot was reduced to conserve sample volume.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Page: 1 of 2
Project #:
GEL Quote #:
COC Number [1]:
PO Number: GNC82177-0006

GEL Laboratories LLC — Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

653855 / 653856

Chain of Custody and Analytical Request

GEL Work Order Number:

GEL Project Manager: Erin Trent

GEL Laboratories,
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power — Phone # 404-506-7116

Project/Site Name: Plant Branch Ash Ponds - E — Fax #

Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308

Collected By: T Bowie ACC — Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested [7] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (If) Known or Possible Hazards	Total number of containers	Cl, F, SO4, TDS, NH3 EPA 300, SM 2540C	Total, Carb & Bicarb Alk SM 2320B	NI Metals* EPA 6020, 6010, 7470	NI Radium 226 & 228 SW 846 9315, 9320	Sulfide SM 4500	<= Preservative Type (6)
BRA- BRGWC-33S	01/31/24	1215	G	N	WG	N	N	8	✓	✓	✓	✓	✓	
BRA- BRGWC-34S	01/31/24	1050	G	N	WG	N	N	8	✓	✓	✓	✓	✓	
BRA- BRGWC-36S	01/31/24	0955	G	N	WG	N	N	8	✓	✓	✓	✓	✓	
BRA- BRGWC-37S	01/31/24	1152	G	N	WG	N	N	8	✓	✓	✓	✓	✓	
BRA- BRGWC-38S	01/31/24	1345	G	N	WG	N	N	8	✓	✓	✓	✓	✓	
BRA- APE-EB-09	01/31/24	1030	G	N	WQ	N	N	8	✓	✓	✓	✓	✓	
BRA- APE-FB-08	01/31/24	1500	G	N	WQ	N	N	8	✓	✓	✓	✓	✓	
BRA- PZ-52D	01/31/24	1405	G	N	WG	N	N	8	✓	✓	✓	✓	✓	
BRA- PZ-53D	01/31/24	1555	G	N	WG	N	N	8	✓	✓	✓	✓	✓	
BRA- PZ-70I	01/31/24	1645	G	N	WG	N	N	8	✓	✓	✓	✓	✓	

Comments: Note: extra sample is required for sample specific QC. Task_Code: BRA-CCR-ASSMT-202451

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	2-1-24	0816	1	2/1/24	0916
2	2/1/24	1036	2	2/1/24	0736
3	2/1/24	100	3	2/1/24	1300

TAT Requested: Normal: X Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [X] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] Level 1 [X] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg

For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No Cooler Temp: ____ °C

Sample Collection Time Zone: [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other

> For sample shipping and delivery details, see Sample Receipt & Review form (SRR).

1.) Chain of Custody Number + Client Determined

2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.

4.) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1)

6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

cooler 1 - 0°
2 - 0°
3 - 1°
4 - 0°
5 - 0°
6 - 1°

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic; Hg = Mercury
Ba = Barium; Se = Selenium
Cd = Cadmium; Ag = Silver
Cr = Chromium; MR = Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW = Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT = Other / Unknown
(i.e.: High/low pH, infectious, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

Page 2 of 2

Project #:

GEL Quote #:

COC Number [1]:

PO Number: GPC82177-0006

653855/653856

GEL Laboratories LLC
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number:

GEL Project Manager: Erin Trent

GEL Laboratories,
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power

Phone #: 404-506-7116

Project/Site Name: Plant Branch Ash Ponds - E

Fax #:

Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308

Collected By: T. Gotte ACC

Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested [5]: (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (Mandatory)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply exposure info.)	Should this sample be considered: Hazardous or possible Hazards	Total number of containers	CLP, 300, TDS, NO3 EPA 300, SM 2540C	Total Carb. & Bicarb Alk. SM 2320B	Metals * EPA 6020, 7470	Hexavalent Chromium EPA 218.6, 7196 SW 846 6010, 6020	Sulfide SM 4500	N1	N1	<-- Preservative Type (6)
BRA- APE-FD-05	01/31/24	—	G	N	WG	N	N	8	✓	✓	✓	✓	✓			
BRA- APE-EB-10	01/31/24	1555	G	N	WQ	N	N	8	✓	✓	✓	✓	✓			
BRA-																
BRA-																
BRA-																
BRA-																
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BRA-																

Comments
Note: extra sample is required for sample specific QC
Task_Code: BRA-CCR-ASSMT-202451

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	2-1-24	0816	1	2/1/24	0816
2	2/1/24	0856	2	2/1/24	0856
3	2/1/24	1000	3	2/1/24	1300

TAT Requested: Normal: X Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [x] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [x] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg

For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No Cooler Temp: ____ °C

> For sample shipping and delivery details, see Sample Receipt & Review form (SRR)

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.

4.) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1)

6.) Preservative Type: HA = Hydrochloric Acid, N3 = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic
Ba = Barium
Cd = Cadmium
Cr = Chromium
Pb = Lead
Hg = Mercury
Se = Selenium
Ag = Silver
MR = Misc. RCRA metals

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW = Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT = Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

653855
653856
653853 ET
653854

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	SDG/AR/COC/Work Order:
Received By: CLM	Date Received: 2/1/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier (Other) Coolers 1-0° 3-1° 5-0° 2-0° 4-0° 6-1°

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A) Labeled as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC Section 14 and/or attached documentation indicates radioactive.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?		✓	COC Section 14 and/or attached documentation indicates hazardous.
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

Sample Receipt Criteria		Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (2 ≤ 6 deg. C)*	✓			Preservation Method: Wet Ice Ice Packs Dry Ice None Other: *All temperatures are recorded in Celsius TEMP: See above with coolers
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR-13 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or 5035 Kits present for within 48 hours of sampling? Yes___ No___ NA___ (If yes, take to VOA Freezer.) Are liquid VOA vials received and preserved? Yes___ No___ NA___ (If unpreserved, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No date on container No time on container COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review Initials: WJ Date: 02/02/24 Page 1 of 1

SL-GHL-SR-001 Rev 7

653575/653580

Page: 1 of 1
Project #:
GEL Quote #:
COC Number (1):
PO Number: GPC82177-0006

GEL Laboratories LLC
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power | Phone #: 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - II | Fax #:
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: T Gehl ACC | Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested (3) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and end date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (Hours)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	CL, F, SO4, TDS, NO3 EPA 300, SM 2540C	Total Cat. & Anion Alk SM 2320B	Metals* EPA 6020, 6010, 7470	N1	Radium 226 & 228 SW 846 9315, 9320	N1	Sulfide SM 4500	Preservative Type (6)	Comments
BRA- BAGWC-175	01/30/24	1551	G	N	WG	N	N	8	✓	✓	✓		✓		✓		Note: extra sample is required for sample specific QC. Task_Code: BRA-CCR-ASSMT-202451
BRA- BAGWC-355	01/30/24	1200	G	N	WG	N	N	8	✓	✓	✓		✓		✓		
BRA- PZ-135	01/30/24	1545	G	N	WG	N	N	8	✓	✓	✓		✓		✓		
BRA- APE-FD-04	01/30/24	—	G	N	WG	N	N	8	✓	✓	✓		✓		✓		
BRA- APE-FB-07	01/30/24	1420	G	N	WG	N	N	8	✓	✓	✓		✓		✓		
BRA-																	
BRA-																	
BRA-																	
BRA-																	
BRA-																	

Chain of Custody Signatures

Relinquished by (Signed)	Date	Time	Received by (signed)	Date	Time
1 T Gehl	1-31-24	0820	1	1/31/24	0820
2	1/31/24	0820	2	1/31/24	820
3	1/31/24	106	3	1/31/24	1306

> *For Sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

TAT Requested: Normal: X Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [x] No
Select Deliverable: [ ] C of A [ ] QC Summary [ ] Level 1 [x] Level 2 [ ] Level 3 [ ] Level 4
Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg
For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No Cooler Temp: ____ °C
Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

(1) Chain of Custody Number = Client Determined

(2) QC Codes: N = Normal Sample, TB = Trip Blank, FB = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

(3) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.

(4) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix

(5) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1)

(6) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

(7) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic, Hg= Mercury, Ba = Barium, Se= Selenium, Cd = Cadmium, Ag= Silver, Cr = Chromium, MR= Misc. RCRA metals, Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable, CO = Corrosive, RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste (F,K,P and U-listed wastes.) Waste code(s):

Other
OT= Other / Unknown (i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.) Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

653570 653584
653572 653575
653582 653580

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	SDG/AR/COC/Work Order:
Received By: QG	Date Received: 1/31/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other n/a

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A) Shipped as a DOT Hazardous?			Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?			COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?			Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM / mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?			COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?			If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?				Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?				Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*				Preservation Method: Wet Ice Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: 4.0
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR1-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?				Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?				Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?				If "No", are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?				ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?				ID's and containers affected:
10	Date & time on COC match date & time on bottles?				Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?				Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?				
13	COC form is properly signed in relinquished/received sections?				Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials JJS Date 01/02/24 Page 1 of 1

List of current GEL Certifications as of 28 February 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122024-05
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-23-21
Utah NELAP	SC000122023-38
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC
2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

February 16, 2024

Joju Abraham
Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308

Re: Branch CCR Groundwater Compliance APBCD
Work Orders: 653909,653853 and 653582

Dear Joju Abraham:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on January 31, 2024, February 01, 2024 and February 02, 2024. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Recieved
653582001	BRA-BRGWC-32S	Ground Water	30/01/24 12:55	31/01/24 13:06
653582002	BRA-BRGWC-47	Ground Water	30/01/24 14:56	31/01/24 13:06
653582003	BRA-PZ-44	Ground Water	30/01/24 16:20	31/01/24 13:06
653582004	BRA-BRGWA-23S	Ground Water	30/01/24 12:38	31/01/24 13:06
653582005	BRA-BRGWC-30I	Ground Water	30/01/24 17:34	31/01/24 13:06
653582006	BRA-APBCD-FD-01	Ground Water	30/01/24 12:00	31/01/24 13:06
653853001	BRA-BRGWC-29I	Ground Water	31/01/24 10:40	01/02/24 13:00
653853002	BRA-BRGWC-25I	Ground Water	31/01/24 14:37	01/02/24 13:00
653853003	BRA-BRGWC-27I	Ground Water	31/01/24 15:40	01/02/24 13:00
653853004	BRA-APBCD-FB-01	Water	31/01/24 14:25	01/02/24 13:00
653909001	BRA-PZ-50D	Ground Water	01/02/24 10:15	02/02/24 08:40
653909002	BRA-APBCD-EB-05	Water	01/02/24 11:30	02/02/24 08:40
653909003	BRA-BRGWC-50	Ground Water	01/02/24 12:00	02/02/24 08:40
653909004	BRA-APBCD-FB-03	Water	01/02/24 13:30	02/02/24 08:40
653909005	BRA-BRGWC-45	Ground Water	01/02/24 13:50	02/02/24 08:40
653909006	BRA-PZ-58I	Ground Water	01/02/24 10:12	02/02/24 08:40

653909007	BRA-PZ-60I	Ground Water	01/02/24 13:13	02/02/24 08:40
653909008	BRA-PZ-61I	Ground Water	01/02/24 11:33	02/02/24 08:40
653909009	BRA-PZ-51I	Ground Water	01/02/24 13:49	02/02/24 08:40
653909010	BRA-APBCD-FD-03	Ground Water	01/02/24 12:00	02/02/24 08:40
653909011	BRA-PZ-51D	Ground Water	01/02/24 10:11	02/02/24 08:40
653909012	BRA-APBCD-EB-04	Water	01/02/24 10:10	02/02/24 08:40
653909013	BRA-BRGWC-52I	Ground Water	01/02/24 10:15	02/02/24 08:40
653909014	BRA-PZ-63I	Ground Water	01/02/24 14:10	02/02/24 08:40
653909015	BRA-PZ-64I	Ground Water	01/02/24 12:00	02/02/24 08:40
653909016	BRA-APBCD-FD-02	Ground Water	01/02/24 12:00	02/02/24 08:40
653909017	BRA-APBCD-FB-02	Water	01/02/24 11:15	02/02/24 08:40
653909018	BRA-PZ-74I	Ground Water	01/02/24 12:00	02/02/24 08:40
653909019	BRA-APBCD-EB-06	Water	01/02/24 13:05	02/02/24 08:40
653909020	BRA-PZ-68D	Ground Water	01/02/24 09:45	02/02/24 08:40
653909021	BRA-PZ-75I	Ground Water	01/02/24 14:20	02/02/24 08:40

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Prep Methods and Prep Dates

Method	Run Date ID
SW846 3005A	01-FEB-2024
SW846 3005A	02-FEB-2024
SW846 3005A	05-FEB-2024
SW846 7470A Prep	01-FEB-2024
SW846 7470A Prep	02-FEB-2024
SW846 7470A Prep	05-FEB-2024

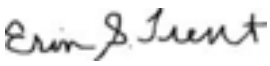
Analysis Methods and Analysis Dates

Method	Run Date ID
EPA 300.0	01-FEB-2024
EPA 300.0	02-FEB-2024
EPA 300.0	03-FEB-2024
EPA 300.0	09-FEB-2024
EPA 300.0	12-FEB-2024
EPA 300.0	31-JAN-2024
SM 2320B	01-FEB-2024

SM 2320B	02-FEB-2024
SM 2540C	06-FEB-2024
SM 2540C	07-FEB-2024
SM 2540C	08-FEB-2024
SM 4500-S (2-) D	01-FEB-2024
SM 4500-S (2-) D	02-FEB-2024
SM 4500-S (2-) D	31-JAN-2024
SW846 3005A/6020B	10-FEB-2024
SW846 3005A/6020B	12-FEB-2024
SW846 3005A/6020B	13-FEB-2024
SW846 3005A/6020B	14-FEB-2024
SW846 3005A/6020B	15-FEB-2024
SW846 3005A/6020B	16-FEB-2024
SW846 7470A	02-FEB-2024
SW846 7470A	05-FEB-2024
SW846 7470A	06-FEB-2024

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4504.

Sincerely,



Erin Trent
Project Manager

Purchase Order: GPC82177-0006
Enclosures

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 653853 GEL Work Order: 653853

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL

J Value is estimated

N/A RPD or %Recovery limits do not apply.

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Erin Trent.

Reviewed by Erin B. Trent

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 653909 GEL Work Order: 653909

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL

H Analytical holding time was exceeded

J Value is estimated

N Metals--The Matrix spike sample recovery is not within specified control limits

N/A RPD or %Recovery limits do not apply.

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Erin Trent.

Reviewed by Erin B. Trent

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 653582 GEL Work Order: 653582

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL

J Value is estimated

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Erin Trent.

Reviewed by Erin B. Trent

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: February 15, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-BRGWC-29I
Sample ID: 653853001
Matrix: WG
Collect Date: 31-JAN-24 10:40
Receive Date: 01-FEB-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		328	6.65	20.0	mg/L		50	TXT1	02/02/24	0658	2562344	1
Chloride		7.94	0.0670	0.200	mg/L		1	TXT1	02/01/24	1710	2562344	2
Fluoride	J	0.0968	0.0330	0.100	mg/L		1					
Nitrate-N		0.725	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury		0.000780	0.0000670	0.000200	mg/L	1.00	1	JP2	02/05/24	1207	2562322	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Manganese		1.62	0.0100	0.0500	mg/L	1.00	10	PRB	02/15/24	1210	2562397	4
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	02/13/24	2144	2562397	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0179	0.000670	0.00400	mg/L	1.00	1					
Beryllium		0.00114	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00874	0.000300	0.00100	mg/L	1.00	1					
Iron		23.8	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00337	0.00300	0.0100	mg/L	1.00	1					
Magnesium		10.2	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		10.6	0.0800	0.300	mg/L	1.00	1					
Selenium	J	0.00229	0.00150	0.00500	mg/L	1.00	1					
Sodium		19.6	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		1.11	0.0520	0.150	mg/L	1.00	10	BAJ	02/14/24	1131	2562397	6
Calcium		89.3	0.800	2.00	mg/L	1.00	10					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		535	2.38	10.0	mg/L			ES2	02/07/24	0848	2564661	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	02/01/24	1654	2562451	8

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: February 15, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-BRGWC-29I
Sample ID: 653853001
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	02/02/24	1049	2562772	9
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/02/24	1150	2562321
SW846 3005A	ICP-MS 3005A PREP	JD2	02/02/24	0845	2562396

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 4500-S (2-) D	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: February 15, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-BRGWC-25I	Project:	GPCC00101
Sample ID:	653853002	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	31-JAN-24 14:37		
Receive Date:	01-FEB-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		169	2.66	8.00	mg/L		20	TXT1	02/02/24	2355	2562344	1
Chloride		8.73	0.0670	0.200	mg/L		1	TXT1	02/01/24	1741	2562344	2
Fluoride		0.221	0.0330	0.100	mg/L		1					
Nitrate-N	J	0.0646	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/05/24	1208	2562322	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	02/13/24	2159	2562397	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0276	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00254	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		24.2	0.0100	0.0300	mg/L	1.00	1					
Molybdenum		0.00140	0.000200	0.00100	mg/L	1.00	1					
Potassium		4.71	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		21.2	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		1.61	0.0520	0.150	mg/L	1.00	10	BAJ	02/14/24	1136	2562397	5
Calcium		67.4	0.800	2.00	mg/L	1.00	10					
Manganese		2.12	0.0100	0.0500	mg/L	1.00	10	PRB	02/15/24	1220	2562397	6
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		391	2.38	10.0	mg/L			ES2	02/07/24	0848	2564661	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	02/01/24	1654	2562451	8

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Certificate of Analysis

Report Date: February 15, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-BRGWC-25I	Project:	GPCC00101
Sample ID:	653853002	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		104	0.725	2.00	mg/L			JW2	02/02/24	1050	2562772	9
Bicarbonate alkalinity (CaCO3)		104	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	JD2	02/02/24	0845	2562396
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/02/24	1150	2562321

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 4500-S (2-) D	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 15, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-BRGWC-27I	Project:	GPCC00101
Sample ID:	653853003	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	31-JAN-24 15:40		
Receive Date:	01-FEB-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		155	2.66	8.00	mg/L		20	TXT1	02/03/24	0027	2562344	1
Chloride		4.05	0.0670	0.200	mg/L		1	TXT1	02/01/24	1813	2562344	2
Fluoride		0.222	0.0330	0.100	mg/L		1					
Nitrate-N		0.264	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/05/24	1213	2562322	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		1.17	0.0520	0.150	mg/L	1.00	10	BAJ	02/14/24	1138	2562397	4
Calcium		60.0	0.800	2.00	mg/L	1.00	10					
Manganese		0.329	0.0100	0.0500	mg/L	1.00	10	PRB	02/15/24	1221	2562397	5
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	02/13/24	2202	2562397	6
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0155	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00392	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		6.59	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	J	0.000213	0.000200	0.00100	mg/L	1.00	1					
Potassium		5.30	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		15.3	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		299	2.38	10.0	mg/L			ES2	02/07/24	0848	2564661	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	02/01/24	1655	2562451	8

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Certificate of Analysis

Report Date: February 15, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-BRGWC-27I
Sample ID: 653853003
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		41.0	0.725	2.00	mg/L			JW2	02/02/24	1052	2562772	9
Bicarbonate alkalinity (CaCO3)		41.0	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/02/24	1150	2562321
SW846 3005A	ICP-MS 3005A PREP	JD2	02/02/24	0845	2562396

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 4500-S (2-) D	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 15, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-APBCD-FB-01
Sample ID: 653853004
Matrix: WQ
Collect Date: 31-JAN-24 14:25
Receive Date: 01-FEB-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		0.277	0.0670	0.200	mg/L		1	TXT1	02/01/24	1845	2562344	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Nitrate-N	J	0.0378	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/05/24	1215	2562322	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1	PRB	02/15/24	1223	2562397	3
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1	BAJ	02/14/24	1129	2562397	4
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	02/13/24	2204	2562397	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium	U	ND	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium	U	ND	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			ES2	02/07/24	0848	2564661	6
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	02/01/24	1655	2562451	7

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Certificate of Analysis

Report Date: February 15, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-APBCD-FB-01 Project: GPCC00101
Sample ID: 653853004 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	02/02/24	1053	2562772	8
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	JD2	02/02/24	0845	2562396
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/02/24	1150	2562321

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 4500-S (2-) D	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 16, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-PZ-50D
Sample ID: 653909001
Matrix: WG
Collect Date: 01-FEB-24 10:15
Receive Date: 02-FEB-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		787	13.3	40.0	mg/L		100	TXT1	02/09/24	1312	2562947	1
Fluoride		0.202	0.0330	0.100	mg/L		1	TXT1	02/02/24	1328	2562947	2
Chloride		10.6	0.134	0.400	mg/L		2	TXT1	02/09/24	1136	2562947	3
Nitrate-N	H	7.85	0.0660	0.200	mg/L		2					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/06/24	1203	2563281	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		0.269	0.0520	0.150	mg/L	1.00	10	PRB	02/16/24	0302	2563145	5
Calcium		195	0.800	2.00	mg/L	1.00	10					
Magnesium		79.2	0.100	0.300	mg/L	1.00	10					
Manganese		9.15	0.0100	0.0500	mg/L	1.00	10					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/14/24	1938	2563145	6
Arsenic	J	0.00242	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0259	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.131	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0254	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	J	0.000839	0.000200	0.00100	mg/L	1.00	1					
Potassium		10.2	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		39.6	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Iron		3.41	0.0330	0.100	mg/L	1.00	1	PRB	02/16/24	0244	2563145	7
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1330	4.76	20.0	mg/L			ES2	02/08/24	0804	2565277	8
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	02/02/24	1304	2562850	9

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Certificate of Analysis

Report Date: February 16, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-PZ-50D
Sample ID: 653909001
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		71.1	0.725	2.00	mg/L			JW2	02/02/24	1157	2562852	10
Bicarbonate alkalinity (CaCO3)		71.1	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	AB5	02/05/24	1530	2563142
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/05/24	1100	2563279

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 4500-S (2-) D	
10	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 16, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-APBCD-EB-05
Sample ID: 653909002
Matrix: WQ
Collect Date: 01-FEB-24 11:30
Receive Date: 02-FEB-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	J	0.176	0.0670	0.200	mg/L		1	TXT1	02/02/24	1422	2562947	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/06/24	1205	2563281	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/14/24	2003	2563145	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium	U	ND	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium	U	ND	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1	PRB	02/16/24	0327	2563145	4
Manganese	J	0.00105	0.00100	0.00500	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			ES2	02/08/24	0804	2565277	5
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	02/02/24	1304	2562850	6

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Report Date: February 16, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-APBCD-EB-05 Project: GPCC00101
Sample ID: 653909002 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	02/02/24	1157	2562852	7
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	AB5	02/05/24	1530	2563142
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/05/24	1100	2563279

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	
6	SM 4500-S (2-) D	
7	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: February 16, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-BRGWC-50
Sample ID: 653909003
Matrix: WG
Collect Date: 01-FEB-24 12:00
Receive Date: 02-FEB-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		0.416	0.0330	0.100	mg/L		1	TXT1	02/02/24	1454	2562947	1
Nitrate-N		0.187	0.0330	0.100	mg/L		1					
Chloride		15.4	0.134	0.400	mg/L		2	TXT1	02/09/24	1447	2562947	2
Sulfate		1310	26.6	80.0	mg/L		200	TXT1	02/09/24	1519	2562947	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/06/24	1206	2563281	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/14/24	2006	2563145	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0150	0.000670	0.00400	mg/L	1.00	1					
Beryllium		0.00734	0.000200	0.000500	mg/L	1.00	1					
Cadmium		0.00688	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0376	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		9.83	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		45.4	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Manganese		77.5	0.100	0.500	mg/L	1.00	100	PRB	02/16/24	0338	2563145	6
Boron		0.389	0.0260	0.0750	mg/L	1.00	5	PRB	02/16/24	0334	2563145	7
Calcium		224	0.400	1.00	mg/L	1.00	5					
Cobalt		1.39	0.00150	0.00500	mg/L	1.00	5					
Magnesium		156	0.0500	0.150	mg/L	1.00	5					
Iron		0.307	0.0330	0.100	mg/L	1.00	1	PRB	02/16/24	0331	2563145	8
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1970	23.8	100	mg/L			ES2	02/08/24	0804	2565277	9
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	02/02/24	1304	2562850	10

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Certificate of Analysis

Report Date: February 16, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-BRGWC-50 Project: GPCC00101
Sample ID: 653909003 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		8.70	0.725	2.00	mg/L			JW2	02/02/24	1159	2562852	11
Bicarbonate alkalinity (CaCO3)		8.70	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/05/24	1100	2563279
SW846 3005A	ICP-MS 3005A PREP	AB5	02/05/24	1530	2563142

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SM 2540C	
10	SM 4500-S (2-) D	
11	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 16, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-APBCD-FB-03	Project:	GPCC00101
Sample ID:	653909004	Client ID:	GPCC001
Matrix:	WQ		
Collect Date:	01-FEB-24 13:30		
Receive Date:	02-FEB-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	J	0.142	0.0670	0.200	mg/L		1	TXT1	02/02/24	1526	2562947	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/06/24	1208	2563281	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/14/24	2010	2563145	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium	J	0.0120	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium	U	ND	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1	PRB	02/16/24	0342	2563145	4
Manganese	J	0.00390	0.00100	0.00500	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			ES2	02/08/24	0804	2565277	5
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	02/02/24	1304	2562850	6

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Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-APBCD-FB-03 Project: GPCC00101
Sample ID: 653909004 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	02/02/24	1200	2562852	7
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/05/24	1100	2563279
SW846 3005A	ICP-MS 3005A PREP	AB5	02/05/24	1530	2563142

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	
6	SM 4500-S (2-) D	
7	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

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Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-BRGWC-45	Project:	GPCC00101
Sample ID:	653909005	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	01-FEB-24 13:50		
Receive Date:	02-FEB-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		17.2	0.670	2.00	mg/L		10	TXT1	02/09/24	1551	2562947	1
Sulfate		110	1.33	4.00	mg/L		10					
Fluoride		0.126	0.0330	0.100	mg/L		1	TXT1	02/02/24	1558	2562947	2
Nitrate-N		0.779	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/06/24	1213	2563281	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/14/24	2014	2563145	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0497	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron		0.0355	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		32.8	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00181	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		16.6	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		2.83	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		13.4	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Iron	J	0.0581	0.0330	0.100	mg/L	1.00	1	PRB	02/16/24	0345	2563145	5
Manganese		0.160	0.00100	0.00500	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		255	2.38	10.0	mg/L			ES2	02/08/24	0804	2565277	6
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	02/02/24	1324	2562851	7

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Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-BRGWC-45 Project: GPCC00101
Sample ID: 653909005 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		35.7	0.725	2.00	mg/L			JW2	02/02/24	1201	2562852	8
Bicarbonate alkalinity (CaCO3)		35.7	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	AB5	02/05/24	1530	2563142
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/05/24	1100	2563279

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 4500-S (2-) D	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 16, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-PZ-58I
Sample ID: 653909006
Matrix: WG
Collect Date: 01-FEB-24 10:12
Receive Date: 02-FEB-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		1.16	0.0330	0.100	mg/L		1	TXT1	02/02/24	1629	2562947	1
Nitrate-N	J	0.0551	0.0330	0.100	mg/L		1					
Sulfate		1120	13.3	40.0	mg/L		100	TXT1	02/09/24	1758	2562947	2
Chloride		13.1	0.134	0.400	mg/L		2	TXT1	02/09/24	1726	2562947	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury		0.00146	0.0000670	0.000200	mg/L	1.00	1	JP2	02/06/24	1308	2563281	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Iron		62.3	3.30	10.0	mg/L	1.00	100	PRB	02/16/24	0356	2563145	5
Manganese		37.9	0.100	0.500	mg/L	1.00	100					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/14/24	2017	2563145	6
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0162	0.000670	0.00400	mg/L	1.00	1					
Beryllium		0.0351	0.000200	0.000500	mg/L	1.00	1					
Cadmium		0.00468	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.570	0.000300	0.00100	mg/L	1.00	1					
Lead	J	0.000825	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0508	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		8.32	0.0800	0.300	mg/L	1.00	1					
Selenium	J	0.00331	0.00150	0.00500	mg/L	1.00	1					
Sodium		35.0	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.416	0.0260	0.0750	mg/L	1.00	5	PRB	02/16/24	0352	2563145	7
Calcium		184	0.400	1.00	mg/L	1.00	5					
Magnesium		100	0.0500	0.150	mg/L	1.00	5					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1710	4.76	20.0	mg/L			ES2	02/08/24	0804	2565277	8
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	02/02/24	1324	2562851	9

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Report Date: February 16, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-PZ-58I
Sample ID: 653909006
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	02/02/24	1203	2562852	10
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/05/24	1100	2563279
SW846 3005A	ICP-MS 3005A PREP	AB5	02/05/24	1530	2563142

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 4500-S (2-) D	
10	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 16, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-PZ-60I
Sample ID: 653909007
Matrix: WG
Collect Date: 01-FEB-24 13:13
Receive Date: 02-FEB-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		1920	26.6	80.0	mg/L		200	TXT1	02/09/24	1902	2562947	1
Fluoride		1.26	0.0330	0.100	mg/L		1	TXT1	02/02/24	1701	2562947	2
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Chloride		26.9	0.670	2.00	mg/L		10	TXT1	02/09/24	1830	2562947	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/06/24	1216	2563281	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/14/24	2021	2563145	5
Arsenic	J	0.00248	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0205	0.000670	0.00400	mg/L	1.00	1					
Beryllium		0.0619	0.000200	0.000500	mg/L	1.00	1					
Cadmium		0.0140	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0958	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		13.0	0.0800	0.300	mg/L	1.00	1					
Selenium	J	0.00275	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Calcium		296	40.0	100	mg/L	1.00	500	PRB	02/16/24	0414	2563145	6
Manganese		186	0.500	2.50	mg/L	1.00	500					
Boron		0.301	0.0260	0.0750	mg/L	1.00	5	PRB	02/16/24	0410	2563145	7
Cobalt		3.78	0.00150	0.00500	mg/L	1.00	5					
Magnesium		198	0.0500	0.150	mg/L	1.00	5					
Sodium		64.0	0.400	1.25	mg/L	1.00	5					
Iron		1.62	0.0330	0.100	mg/L	1.00	1	PRB	02/16/24	0407	2563145	8
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		2690	23.8	100	mg/L			ES2	02/08/24	0804	2565277	9
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	02/02/24	1324	2562851	10

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Certificate of Analysis

Report Date: February 16, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-PZ-60I
Sample ID: 653909007
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	02/02/24	1204	2562852	11
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	AB5	02/05/24	1530	2563142
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/05/24	1100	2563279

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SM 2540C	
10	SM 4500-S (2-) D	
11	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 16, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-PZ-61I
Sample ID: 653909008
Matrix: WG
Collect Date: 01-FEB-24 11:33
Receive Date: 02-FEB-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		1470	26.6	80.0	mg/L		200	TXT1	02/12/24	1150	2562947	1
Fluoride	J	0.0694	0.0330	0.100	mg/L		1	TXT1	02/02/24	1733	2562947	2
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Chloride		15.8	0.335	1.00	mg/L		5	TXT1	02/12/24	1118	2562947	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/06/24	1218	2563281	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		0.332	0.0260	0.0750	mg/L	1.00	5	PRB	02/16/24	0421	2563145	5
Calcium		218	0.400	1.00	mg/L	1.00	5					
Magnesium		167	0.0500	0.150	mg/L	1.00	5					
Sodium		59.9	0.400	1.25	mg/L	1.00	5					
Iron		0.373	0.0330	0.100	mg/L	1.00	1	PRB	02/16/24	0418	2563145	6
Manganese		118	0.500	2.50	mg/L	1.00	500	PRB	02/16/24	0425	2563145	7
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/14/24	2024	2563145	8
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0102	0.000670	0.00400	mg/L	1.00	1					
Beryllium		0.00157	0.000200	0.000500	mg/L	1.00	1					
Cadmium	J	0.000370	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.694	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00995	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		5.99	0.0800	0.300	mg/L	1.00	1					
Selenium	J	0.00231	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1960	23.8	100	mg/L			ES2	02/08/24	0804	2565277	9
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	02/02/24	1324	2562851	10

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Certificate of Analysis

Report Date: February 16, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-PZ-61I
Sample ID: 653909008
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		10.9	0.725	2.00	mg/L			JW2	02/02/24	1205	2562852	11
Bicarbonate alkalinity (CaCO3)		10.9	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	AB5	02/05/24	1530	2563142
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/05/24	1100	2563279

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SM 2540C	
10	SM 4500-S (2-) D	
11	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 16, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-PZ-51I
Sample ID: 653909009
Matrix: WG
Collect Date: 01-FEB-24 13:49
Receive Date: 02-FEB-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		9.59	0.134	0.400	mg/L		2	TXT1	02/09/24	2038	2562947	1
Sulfate		1270	13.3	40.0	mg/L		100	TXT1	02/09/24	2109	2562947	2
Fluoride	J	0.0661	0.0330	0.100	mg/L		1	TXT1	02/02/24	1805	2562947	3
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/06/24	0945	2563285	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		0.409	0.0260	0.0750	mg/L	1.00	5	PRB	02/16/24	0432	2563145	5
Calcium		208	0.400	1.00	mg/L	1.00	5					
Magnesium		136	0.0500	0.150	mg/L	1.00	5					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/14/24	2028	2563145	6
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0133	0.000670	0.00400	mg/L	1.00	1					
Beryllium	J	0.000202	0.000200	0.000500	mg/L	1.00	1					
Cadmium		0.00133	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.0221	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0225	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	J	0.000201	0.000200	0.00100	mg/L	1.00	1					
Potassium		10.7	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		42.5	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Manganese		49.5	0.500	2.50	mg/L	1.00	500	PRB	02/16/24	0436	2563145	7
Iron		0.185	0.0330	0.100	mg/L	1.00	1	PRB	02/16/24	0429	2563145	8
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1970	4.76	20.0	mg/L			ES2	02/08/24	0804	2565277	9
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	02/02/24	1324	2562851	10

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Certificate of Analysis

Report Date: February 16, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-PZ-51I
Sample ID: 653909009
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		24.3	0.725	2.00	mg/L			JW2	02/02/24	1207	2562852	11
Bicarbonate alkalinity (CaCO3)		24.3	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	AB5	02/05/24	1530	2563142
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/05/24	1100	2563284

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SM 2540C	
10	SM 4500-S (2-) D	
11	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 16, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-APBCD-FD-03
Sample ID: 653909010
Matrix: WG
Collect Date: 01-FEB-24 12:00
Receive Date: 02-FEB-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		27.7	0.335	1.00	mg/L		5	TXT1	02/09/24	2141	2562947	1
Fluoride		1.27	0.0330	0.100	mg/L		1	TXT1	02/02/24	1837	2562947	2
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate		1920	26.6	80.0	mg/L		200	TXT1	02/09/24	2213	2562947	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/06/24	0946	2563285	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Manganese		178	1.00	5.00	mg/L	1.00	1000	PRB	02/16/24	0742	2563145	5
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/14/24	2032	2563145	6
Arsenic	J	0.00236	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0204	0.000670	0.00400	mg/L	1.00	1					
Beryllium		0.0664	0.000200	0.000500	mg/L	1.00	1					
Cadmium		0.0141	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.101	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		12.8	0.0800	0.300	mg/L	1.00	1					
Selenium	J	0.00289	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.289	0.0520	0.150	mg/L	1.00	10	PRB	02/16/24	0454	2563145	7
Calcium		298	0.800	2.00	mg/L	1.00	10					
Cobalt		3.82	0.00300	0.0100	mg/L	1.00	10					
Magnesium		199	0.100	0.300	mg/L	1.00	10					
Sodium		63.9	0.800	2.50	mg/L	1.00	10					
Iron		1.60	0.0330	0.100	mg/L	1.00	1	PRB	02/16/24	0447	2563145	8
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		2890	23.8	100	mg/L			ES2	02/08/24	0804	2565277	9
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	02/02/24	1325	2562851	10

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Certificate of Analysis

Report Date: February 16, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-APBCD-FD-03 Project: GPCC00101
Sample ID: 653909010 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	02/02/24	1209	2562852	11
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	AB5	02/05/24	1530	2563142
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/05/24	1100	2563284

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SM 2540C	
10	SM 4500-S (2-) D	
11	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 16, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-PZ-51D
Sample ID: 653909011
Matrix: WG
Collect Date: 01-FEB-24 10:11
Receive Date: 02-FEB-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		19.2	2.68	8.00	mg/L		40	TXT1	02/09/24	2349	2562947	1
Sulfate		355	5.32	16.0	mg/L		40					
Fluoride		0.299	0.0330	0.100	mg/L		1	TXT1	02/02/24	2012	2562947	2
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/06/24	0948	2563285	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/14/24	2035	2563145	4
Arsenic	J	0.00234	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0461	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron		0.0326	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00111	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00929	0.00300	0.0100	mg/L	1.00	1					
Magnesium		27.5	0.0100	0.0300	mg/L	1.00	1					
Molybdenum		0.00198	0.000200	0.00100	mg/L	1.00	1					
Potassium		10.3	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		41.2	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Iron		2.45	0.0330	0.100	mg/L	1.00	1	PRB	02/16/24	0450	2563145	5
Calcium		122	0.800	2.00	mg/L	1.00	10	PRB	02/16/24	0457	2563145	6
Manganese		1.38	0.0100	0.0500	mg/L	1.00	10					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		715	2.38	10.0	mg/L			ES2	02/08/24	0804	2565277	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	02/02/24	1325	2562851	8

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Certificate of Analysis

Report Date: February 16, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-PZ-51D
Sample ID: 653909011
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		126	0.725	2.00	mg/L			JW2	02/02/24	1216	2562854	9
Bicarbonate alkalinity (CaCO3)		126	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	AB5	02/05/24	1530	2563142
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/05/24	1100	2563284

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 4500-S (2-) D	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 16, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-APBCD-EB-04
Sample ID: 653909012
Matrix: WQ
Collect Date: 01-FEB-24 10:10
Receive Date: 02-FEB-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	CH6	02/02/24	1503	2562950	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/06/24	0950	2563285	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/14/24	2053	2563148	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium	U	ND	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium	U	ND	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1	PRB	02/16/24	0034	2563148	4
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			ES2	02/08/24	0804	2565277	5
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	02/02/24	1325	2562851	6

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Certificate of Analysis

Report Date: February 16, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-APBCD-EB-04 Project: GPCC00101
Sample ID: 653909012 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	02/02/24	1218	2562854	7
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	AB5	02/05/24	1530	2563146
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/05/24	1100	2563284

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	
6	SM 4500-S (2-) D	
7	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 16, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-BRGWC-52I
Sample ID: 653909013
Matrix: WG
Collect Date: 01-FEB-24 10:15
Receive Date: 02-FEB-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		6.30	0.0670	0.200	mg/L		1	CH6	02/02/24	1533	2562950	1
Fluoride		0.215	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate		145	2.66	8.00	mg/L		20	CH6	02/02/24	2316	2562950	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/06/24	0951	2563285	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/14/24	2057	2563148	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0414	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		36.4	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000420	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0122	0.00300	0.0100	mg/L	1.00	1					
Magnesium		17.5	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	J	0.000564	0.000200	0.00100	mg/L	1.00	1					
Potassium		4.46	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		17.6	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		1.61	0.0520	0.150	mg/L	1.00	10	PRB	02/16/24	0103	2563148	5
Iron		1.03	0.0330	0.100	mg/L	1.00	1	PRB	02/16/24	0045	2563148	6
Manganese		0.554	0.00100	0.00500	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		303	2.38	10.0	mg/L			ES2	02/08/24	0804	2565277	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	02/02/24	1325	2562851	8

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Certificate of Analysis

Report Date: February 16, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-BRGWC-52I
Sample ID: 653909013
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		53.6	0.725	2.00	mg/L			JW2	02/02/24	1219	2562854	9
Bicarbonate alkalinity (CaCO3)		53.6	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	AB5	02/05/24	1530	2563146
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/05/24	1100	2563284

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 4500-S (2-) D	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 16, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-PZ-63I
Sample ID: 653909014
Matrix: WG
Collect Date: 01-FEB-24 14:10
Receive Date: 02-FEB-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		7.16	0.0670	0.200	mg/L		1	CH6	02/02/24	1706	2562950	1
Fluoride		0.289	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate		352	5.32	16.0	mg/L		40	CH6	02/03/24	0049	2562950	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/06/24	0953	2563285	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		0.714	0.0520	0.150	mg/L	1.00	10	PRB	02/16/24	0131	2563148	4
Calcium		57.3	0.800	2.00	mg/L	1.00	10					
Manganese		7.04	0.0100	0.0500	mg/L	1.00	10					
Iron		1.30	0.0330	0.100	mg/L	1.00	1	PRB	02/16/24	0128	2563148	5
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/14/24	2122	2563148	6
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0202	0.000670	0.00400	mg/L	1.00	1					
Beryllium	J	0.000286	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.0299	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00557	0.00300	0.0100	mg/L	1.00	1					
Magnesium		38.7	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	J	0.000700	0.000200	0.00100	mg/L	1.00	1					
Potassium		7.84	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		17.8	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		561	2.38	10.0	mg/L			ES2	02/08/24	0804	2565277	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	02/02/24	1325	2562851	8

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Certificate of Analysis

Report Date: February 16, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-PZ-63I
Sample ID: 653909014
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		30.3	0.725	2.00	mg/L			JW2	02/02/24	1221	2562854	9
Bicarbonate alkalinity (CaCO3)		30.3	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	AB5	02/05/24	1530	2563146
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/05/24	1100	2563284

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 4500-S (2-) D	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 16, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-PZ-64I
Sample ID: 653909015
Matrix: WG
Collect Date: 01-FEB-24 12:00
Receive Date: 02-FEB-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		0.133	0.0330	0.100	mg/L		1	CH6	02/02/24	1737	2562950	1
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Chloride		36.9	0.670	2.00	mg/L		10	CH6	02/03/24	0221	2562950	2
Sulfate		2730	133	400	mg/L		1000	CH6	02/03/24	0323	2562950	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/06/24	0955	2563285	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		0.0160	0.00520	0.0150	mg/L	1.00	1	PRB	02/16/24	0135	2563148	5
Iron		2.47	0.0330	0.100	mg/L	1.00	1					
Manganese		352	1.00	5.00	mg/L	1.00	1000	PRB	02/16/24	0142	2563148	6
Calcium		333	0.800	2.00	mg/L	1.00	10	PRB	02/16/24	0139	2563148	7
Cobalt		9.86	0.00300	0.0100	mg/L	1.00	10					
Magnesium		247	0.100	0.300	mg/L	1.00	10					
Sodium		69.9	0.800	2.50	mg/L	1.00	10					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/14/24	2126	2563148	8
Arsenic	J	0.00438	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0133	0.000670	0.00400	mg/L	1.00	1					
Beryllium		0.00268	0.000200	0.000500	mg/L	1.00	1					
Cadmium		0.00110	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0124	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		12.1	0.0800	0.300	mg/L	1.00	1					
Selenium		0.00830	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		4420	23.8	100	mg/L			ES2	02/08/24	0804	2565277	9
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	02/02/24	1325	2562851	10

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Certificate of Analysis

Report Date: February 16, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-PZ-64I	Project:	GPCC00101
Sample ID:	653909015	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		22.4	0.725	2.00	mg/L			JW2	02/02/24	1224	2562854	11
Bicarbonate alkalinity (CaCO3)		22.4	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	AB5	02/05/24	1530	2563146
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/05/24	1100	2563284

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SM 2540C	
10	SM 4500-S (2-) D	
11	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 16, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-APBCD-FD-02
Sample ID: 653909016
Matrix: WG
Collect Date: 01-FEB-24 12:00
Receive Date: 02-FEB-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		6.45	0.0670	0.200	mg/L		1	CH6	02/02/24	1808	2562950	1
Fluoride		0.210	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate		148	2.66	8.00	mg/L		20	CH6	02/03/24	0354	2562950	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/06/24	0956	2563285	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		1.63	0.0520	0.150	mg/L	1.00	10	PRB	02/16/24	0150	2563148	4
Iron		1.04	0.0330	0.100	mg/L	1.00	1	PRB	02/16/24	0146	2563148	5
Manganese		0.569	0.00100	0.00500	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/14/24	2129	2563148	6
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0412	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		36.6	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00179	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0131	0.00300	0.0100	mg/L	1.00	1					
Magnesium		17.9	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	J	0.000536	0.000200	0.00100	mg/L	1.00	1					
Potassium		4.51	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		18.1	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		297	2.38	10.0	mg/L			ES2	02/08/24	0804	2565277	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	02/02/24	1325	2562851	8

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Certificate of Analysis

Report Date: February 16, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-APBCD-FD-02 Project: GPCC00101
Sample ID: 653909016 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		55.8	0.725	2.00	mg/L			JW2	02/02/24	1226	2562854	9
Bicarbonate alkalinity (CaCO3)		55.8	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	AB5	02/05/24	1530	2563146
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/05/24	1100	2563284

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 4500-S (2-) D	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 16, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-APBCD-FB-02
Sample ID: 653909017
Matrix: WQ
Collect Date: 01-FEB-24 11:15
Receive Date: 02-FEB-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	J	0.174	0.0670	0.200	mg/L		1	CH6	02/02/24	1839	2562950	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/06/24	1001	2563285	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron	J	0.00839	0.00520	0.0150	mg/L	1.00	1	PRB	02/16/24	0153	2563148	3
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Manganese	J	0.00398	0.00100	0.00500	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/14/24	2133	2563148	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00108	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		0.0585	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium	U	ND	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			ES2	02/08/24	0804	2565277	5
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	02/02/24	1325	2562851	6

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Certificate of Analysis

Report Date: February 16, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-APBCD-FB-02 Project: GPCC00101
Sample ID: 653909017 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	02/02/24	1227	2562854	7
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/05/24	1100	2563284
SW846 3005A	ICP-MS 3005A PREP	AB5	02/05/24	1530	2563146

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	
6	SM 4500-S (2-) D	
7	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 16, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-PZ-74I
Sample ID: 653909018
Matrix: WG
Collect Date: 01-FEB-24 12:00
Receive Date: 02-FEB-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		0.232	0.0330	0.100	mg/L		1	CH6	02/02/24	2011	2562950	1
Nitrate-N	J	0.0738	0.0330	0.100	mg/L		1					
Chloride		18.1	1.68	5.00	mg/L		25	CH6	02/03/24	0425	2562950	2
Sulfate		306	3.33	10.0	mg/L		25					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/06/24	1003	2563285	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		1.32	0.0520	0.150	mg/L	1.00	10	PRB	02/16/24	0200	2563148	4
Calcium		62.5	0.800	2.00	mg/L	1.00	10					
Iron	J	0.0710	0.0330	0.100	mg/L	1.00	1	PRB	02/16/24	0157	2563148	5
Manganese		0.0320	0.00100	0.00500	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/14/24	2137	2563148	6
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0245	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000829	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00702	0.00300	0.0100	mg/L	1.00	1					
Magnesium		33.7	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		3.25	0.0800	0.300	mg/L	1.00	1					
Selenium		0.0489	0.00150	0.00500	mg/L	1.00	1					
Sodium		23.6	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		536	2.38	10.0	mg/L			ES2	02/08/24	0804	2565277	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	02/02/24	1325	2562851	8

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Certificate of Analysis

Report Date: February 16, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-PZ-74I
Sample ID: 653909018
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		42.3	0.725	2.00	mg/L			JW2	02/02/24	1228	2562854	9
Bicarbonate alkalinity (CaCO3)		42.3	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/05/24	1100	2563284
SW846 3005A	ICP-MS 3005A PREP	AB5	02/05/24	1530	2563146

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 4500-S (2-) D	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 16, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-APBCD-EB-06
Sample ID: 653909019
Matrix: WQ
Collect Date: 01-FEB-24 13:05
Receive Date: 02-FEB-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	CH6	02/02/24	2042	2562950	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/06/24	1005	2563285	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1	PRB	02/16/24	0211	2563148	3
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Manganese	J	0.00327	0.00100	0.00500	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/14/24	2140	2563148	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000443	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium	U	ND	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium	U	ND	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			ES2	02/08/24	0804	2565277	5
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	02/02/24	1325	2562851	6

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Certificate of Analysis

Report Date: February 16, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-APBCD-EB-06 Project: GPCC00101
Sample ID: 653909019 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	02/02/24	1230	2562854	7
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/05/24	1100	2563284
SW846 3005A	ICP-MS 3005A PREP	AB5	02/05/24	1530	2563146

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	
6	SM 4500-S (2-) D	
7	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 16, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-PZ-68D	Project:	GPCC00101
Sample ID:	653909020	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	01-FEB-24 09:45		
Receive Date:	02-FEB-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		19.9	1.68	5.00	mg/L		25	CH6	02/03/24	0456	2562950	1
Sulfate		279	3.33	10.0	mg/L		25					
Fluoride		0.211	0.0330	0.100	mg/L		1	CH6	02/02/24	2113	2562950	2
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/06/24	1006	2563285	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Iron		0.748	0.0330	0.100	mg/L	1.00	1	PRB	02/16/24	0215	2563148	4
Manganese		0.312	0.00100	0.00500	mg/L	1.00	1					
Boron		0.384	0.0260	0.0750	mg/L	1.00	5	PRB	02/16/24	0222	2563148	5
Calcium		94.3	0.400	1.00	mg/L	1.00	5					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/14/24	2144	2563148	6
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0853	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000852	0.000300	0.00100	mg/L	1.00	1					
Lead	J	0.000504	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00564	0.00300	0.0100	mg/L	1.00	1					
Magnesium		22.7	0.0100	0.0300	mg/L	1.00	1					
Molybdenum		0.00598	0.000200	0.00100	mg/L	1.00	1					
Potassium		9.14	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		36.3	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		583	2.38	10.0	mg/L			ES2	02/08/24	0804	2565277	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	02/02/24	1325	2562851	8

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Certificate of Analysis

Report Date: February 16, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-PZ-68D	Project:	GPCC00101
Sample ID:	653909020	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		116	0.725	2.00	mg/L			JW2	02/02/24	1231	2562854	9
Bicarbonate alkalinity (CaCO3)		116	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	AB5	02/05/24	1530	2563146
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/05/24	1100	2563284

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 4500-S (2-) D	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 16, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-PZ-75I
Sample ID: 653909021
Matrix: WG
Collect Date: 01-FEB-24 14:20
Receive Date: 02-FEB-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		304	5.32	16.0	mg/L		40	CH6	02/03/24	0527	2562950	1
Chloride		7.21	0.0670	0.200	mg/L		1	CH6	02/02/24	2144	2562950	2
Fluoride	J	0.0996	0.0330	0.100	mg/L		1					
Nitrate-N	J	0.0715	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/06/24	1008	2563285	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Iron	J	0.0457	0.0330	0.100	mg/L	1.00	1	PRB	02/16/24	0218	2563148	4
Manganese		0.0209	0.00100	0.00500	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/14/24	2147	2563148	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0421	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000519	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00411	0.00300	0.0100	mg/L	1.00	1					
Magnesium		33.9	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		4.51	0.0800	0.300	mg/L	1.00	1					
Selenium		0.0954	0.00150	0.00500	mg/L	1.00	1					
Sodium		23.9	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		1.36	0.0520	0.150	mg/L	1.00	10	PRB	02/16/24	0226	2563148	6
Calcium		50.8	0.800	2.00	mg/L	1.00	10					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		450	2.38	10.0	mg/L			ES2	02/08/24	0846	2565278	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	02/02/24	1325	2562851	8

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Certificate of Analysis

Report Date: February 16, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-PZ-75I
Sample ID: 653909021
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		32.9	0.725	2.00	mg/L			JW2	02/02/24	1232	2562854	9
Bicarbonate alkalinity (CaCO3)		32.9	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	AB5	02/05/24	1530	2563146
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/05/24	1100	2563284

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 4500-S (2-) D	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 14, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-BRGWC-32S
Sample ID: 653582001
Matrix: WG
Collect Date: 30-JAN-24 12:55
Receive Date: 31-JAN-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		4.10	0.0670	0.200	mg/L		1	CH6	01/31/24	2349	2561599	1
Fluoride		0.207	0.0330	0.100	mg/L		1					
Nitrate-N		1.23	0.0330	0.100	mg/L		1					
Sulfate		246	2.66	8.00	mg/L		20	CH6	02/01/24	1554	2561599	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/02/24	1310	2561614	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Calcium		47.4	0.0800	0.200	mg/L	1.00	1	PRB	02/12/24	1403	2561630	4
Magnesium		31.7	0.0100	0.0300	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/10/24	0127	2561630	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0192	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00591	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		2.59	0.0800	0.300	mg/L	1.00	1					
Selenium		0.170	0.00150	0.00500	mg/L	1.00	1					
Sodium		28.7	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1	PRB	02/13/24	1022	2561630	6
Boron		1.23	0.0520	0.150	mg/L	1.00	10	PRB	02/12/24	1346	2561630	7
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		418	2.38	10.0	mg/L			ES2	02/06/24	0807	2563910	8
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	01/31/24	1638	2561631	9

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Certificate of Analysis

Report Date: February 14, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-BRGWC-32S
Sample ID: 653582001
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		30.6	0.725	2.00	mg/L			JW2	02/01/24	1113	2561936	10
Bicarbonate alkalinity (CaCO3)		30.6	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	JD2	02/01/24	0815	2561629
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/01/24	1135	2561613

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 4500-S (2-) D	
10	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 14, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-BRGWC-47
Sample ID: 653582002
Matrix: WG
Collect Date: 30-JAN-24 14:56
Receive Date: 31-JAN-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		1360	13.3	40.0	mg/L		100	CH6	02/01/24	1625	2561599	1
Chloride		4.74	0.0670	0.200	mg/L		1	CH6	02/01/24	0020	2561599	2
Fluoride		0.110	0.0330	0.100	mg/L		1					
Nitrate-N		0.231	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/02/24	1311	2561614	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		0.618	0.0520	0.150	mg/L	1.00	10	PRB	02/12/24	1347	2561630	4
Calcium		340	0.800	2.00	mg/L	1.00	10					
Magnesium		132	0.100	0.300	mg/L	1.00	10					
Manganese		0.00852	0.00100	0.00500	mg/L	1.00	1	PRB	02/13/24	1024	2561630	5
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/10/24	0130	2561630	6
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0278	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0525	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0484	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	J	0.000280	0.000200	0.00100	mg/L	1.00	1					
Potassium		12.4	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		43.4	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		2160	4.76	20.0	mg/L			ES2	02/06/24	0807	2563910	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	01/31/24	1638	2561631	8

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Certificate of Analysis

Report Date: February 14, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-BRGWC-47 Project: GPCC00101
Sample ID: 653582002 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		24.5	0.725	2.00	mg/L			JW2	02/01/24	1114	2561936	9
Bicarbonate alkalinity (CaCO3)		24.5	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	JD2	02/01/24	0815	2561629
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/01/24	1135	2561613

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 4500-S (2-) D	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 14, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-PZ-44
Sample ID: 653582003
Matrix: WG
Collect Date: 30-JAN-24 16:20
Receive Date: 31-JAN-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		6.36	0.0670	0.200	mg/L		1	CH6	02/01/24	0051	2561599	1
Fluoride		0.242	0.0330	0.100	mg/L		1					
Nitrate-N	J	0.0660	0.0330	0.100	mg/L		1					
Sulfate		42.4	0.665	2.00	mg/L		5	CH6	02/01/24	1758	2561599	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/02/24	1313	2561614	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Manganese		0.501	0.00100	0.00500	mg/L	1.00	1	PRB	02/13/24	1025	2561630	4
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/10/24	0133	2561630	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0520	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000408	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0551	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00537	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		2.60	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		12.1	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Calcium		26.0	0.0800	0.200	mg/L	1.00	1	PRB	02/12/24	1405	2561630	6
Magnesium		11.5	0.0100	0.0300	mg/L	1.00	1					
Boron		1.27	0.0520	0.150	mg/L	1.00	10	PRB	02/12/24	1348	2561630	7
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		179	2.38	10.0	mg/L			ES2	02/06/24	0807	2563910	8
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	01/31/24	1638	2561631	9

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Certificate of Analysis

Report Date: February 14, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-PZ-44 Project: GPCC00101
Sample ID: 653582003 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		79.7	0.725	2.00	mg/L			JW2	02/01/24	1117	2561936	10
Bicarbonate alkalinity (CaCO3)		79.7	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	JD2	02/01/24	0815	2561629
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/01/24	1135	2561613

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 4500-S (2-) D	
10	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 14, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-BRGWA-23S	Project:	GPCC00101
Sample ID:	653582004	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	30-JAN-24 12:38		
Receive Date:	31-JAN-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		2.40	0.0670	0.200	mg/L		1	CH6	02/01/24	0224	2561599	1
Fluoride		0.275	0.0330	0.100	mg/L		1					
Nitrate-N		0.193	0.0330	0.100	mg/L		1					
Sulfate		10.4	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/02/24	1318	2561614	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Manganese	J	0.00138	0.00100	0.00500	mg/L	1.00	1	PRB	02/13/24	1027	2561630	3
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/10/24	0136	2561630	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0431	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00729	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	J	0.000217	0.000200	0.00100	mg/L	1.00	1					
Potassium		2.16	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		9.09	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.0389	0.00520	0.0150	mg/L	1.00	1	PRB	02/12/24	1326	2561630	5
Calcium		6.19	0.0800	0.200	mg/L	1.00	1					
Magnesium		3.60	0.0100	0.0300	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		85.0	2.38	10.0	mg/L			ES2	02/06/24	0807	2563910	6
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	01/31/24	1638	2561631	7

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Certificate of Analysis

Report Date: February 14, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-BRGWA-23S
Sample ID: 653582004
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		37.6	0.725	2.00	mg/L			JW2	02/01/24	1119	2561936	8
Bicarbonate alkalinity (CaCO3)		37.6	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	JD2	02/01/24	0815	2561629
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/01/24	1135	2561613

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 4500-S (2-) D	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 14, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-BRGWC-30I
Sample ID: 653582005
Matrix: WG
Collect Date: 30-JAN-24 17:34
Receive Date: 31-JAN-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		3.52	0.0670	0.200	mg/L		1	CH6	02/01/24	1250	2561599	1
Fluoride		0.169	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate		1210	13.3	40.0	mg/L		100	CH6	02/01/24	1321	2561599	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/02/24	1319	2561614	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Manganese		1.53	0.0200	0.100	mg/L	1.00	20	PRB	02/13/24	1029	2561630	4
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/10/24	0139	2561630	5
Arsenic	J	0.00200	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0349	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00179	0.000300	0.00100	mg/L	1.00	1					
Iron		2.25	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0305	0.00300	0.0100	mg/L	1.00	1					
Molybdenum		0.00137	0.000200	0.00100	mg/L	1.00	1					
Potassium		6.53	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		32.2	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		2.36	0.104	0.300	mg/L	1.00	20	PRB	02/12/24	1349	2561630	6
Calcium		441	1.60	4.00	mg/L	1.00	20					
Magnesium		67.4	0.200	0.600	mg/L	1.00	20					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1970	4.76	20.0	mg/L			ES2	02/06/24	0807	2563910	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	01/31/24	1638	2561631	8

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Certificate of Analysis

Report Date: February 14, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-BRGWC-30I
Sample ID: 653582005
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		136	0.725	2.00	mg/L			JW2	02/01/24	1121	2561936	9
Bicarbonate alkalinity (CaCO3)		136	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	JD2	02/01/24	0815	2561629
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/01/24	1135	2561613

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 4500-S (2-) D	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 14, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-APBCD-FD-01
Sample ID: 653582006
Matrix: WG
Collect Date: 30-JAN-24 12:00
Receive Date: 31-JAN-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		6.24	0.0670	0.200	mg/L		1	CH6	02/01/24	1148	2561599	1
Fluoride		0.188	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate		43.1	0.665	2.00	mg/L		5	CH6	02/01/24	1219	2561599	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/02/24	1321	2561614	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		1.31	0.0520	0.150	mg/L	1.00	10	PRB	02/12/24	1350	2561630	4
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/10/24	0142	2561630	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0544	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000435	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0579	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00547	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		2.67	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		12.4	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Calcium		26.2	0.0800	0.200	mg/L	1.00	1	PRB	02/12/24	1408	2561630	6
Magnesium		11.5	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.514	0.00100	0.00500	mg/L	1.00	1	PRB	02/13/24	1031	2561630	7
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		184	2.38	10.0	mg/L			ES2	02/06/24	0807	2563910	8
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	01/31/24	1638	2561631	9

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Certificate of Analysis

Report Date: February 14, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-APBCD-FD-01 Project: GPCC00101
Sample ID: 653582006 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		79.8	0.725	2.00	mg/L			JW2	02/01/24	1123	2561936	10
Bicarbonate alkalinity (CaCO3)		79.8	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/01/24	1135	2561613
SW846 3005A	ICP-MS 3005A PREP	JD2	02/01/24	0815	2561629

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 4500-S (2-) D	
10	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

QC Summary

Report Date: February 15, 2024

Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia

Contact: **Joju Abraham**

Workorder: **653853**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch 2562344											
QC1205638343 653853001 DUP											
Chloride		7.94		7.97	mg/L	0.41		(0%-20%)	TXT1	02/02/24	02:43
Fluoride	J	0.0968	J	0.0966	mg/L	0.207 ^		(+/-0.100)			
Nitrate-N		0.725		0.731	mg/L	0.865		(0%-20%)			
Sulfate		328		329	mg/L	0.342		(0%-20%)		02/02/24	07:29
QC1205638345 653855010 DUP											
Chloride		5.74		5.73	mg/L	0.171		(0%-20%)		02/02/24	03:46
Fluoride		0.108		0.113	mg/L	5.34 ^		(+/-0.100)			
Nitrate-N		0.152		0.155	mg/L	1.89 ^		(+/-0.100)			
Sulfate		133		133	mg/L	0.0256		(0%-20%)		02/03/24	05:46
QC1205638342 LCS											
Chloride	5.00			4.92	mg/L		98.4	(90%-110%)		02/02/24	06:26
Fluoride	2.50			2.43	mg/L		97.2	(90%-110%)			
Nitrate-N	2.50			2.47	mg/L		98.8	(90%-110%)			
Sulfate	10.0			9.72	mg/L		97.2	(90%-110%)			
QC1205638341 MB											
Chloride			J	0.114	mg/L					02/02/24	05:54

QC Summary

Workorder: **653853**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography											
Batch 2562344											
Fluoride				U	ND	mg/L				TXT1	02/02/24 05:54
Nitrate-N				U	ND	mg/L					
Sulfate				U	ND	mg/L					
QC1205638344 653853001 PS											
Chloride	5.00		7.94		13.7	mg/L		116*	(90%-110%)		02/02/24 03:15
Fluoride	2.50	J	0.0968		2.56	mg/L		98.6	(90%-110%)		
Nitrate-N	2.50		0.725		3.25	mg/L		101	(90%-110%)		
Sulfate	10.0		6.57		16.8	mg/L		102	(90%-110%)		02/02/24 08:59
QC1205638346 653855010 PS											
Chloride	5.00		5.74		11.4	mg/L		113*	(90%-110%)		02/02/24 04:18
Fluoride	2.50		0.108		2.52	mg/L		96.5	(90%-110%)		
Nitrate-N	2.50		0.152		2.62	mg/L		98.9	(90%-110%)		
Sulfate	10.0		13.3		24.4	mg/L		111*	(90%-110%)		02/03/24 06:17
Metals Analysis - ICPMS											
Batch 2562397											
QC1205638453 LCS											
Antimony	0.0500				0.0502	mg/L		100	(80%-120%)	BAJ	02/13/24 21:42
Arsenic	0.0500				0.0509	mg/L		102	(80%-120%)		
Barium	0.0500				0.0520	mg/L		104	(80%-120%)		

QC Summary

Workorder: **653853**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2562397										
Beryllium	0.0500			0.0569	mg/L		114	(80%-120%)	BAJ	02/13/24 21:42
Boron	0.100			0.118	mg/L		118	(80%-120%)		02/14/24 11:28
Cadmium	0.0500			0.0515	mg/L		103	(80%-120%)		02/13/24 21:42
Calcium	2.00			2.06	mg/L		103	(80%-120%)		
Chromium	0.0500			0.0509	mg/L		102	(80%-120%)		
Cobalt	0.0500			0.0523	mg/L		105	(80%-120%)		
Iron	2.00			2.04	mg/L		102	(80%-120%)		
Lead	0.0500			0.0506	mg/L		101	(80%-120%)		
Lithium	0.0500			0.0545	mg/L		109	(80%-120%)		
Magnesium	2.00			2.07	mg/L		103	(80%-120%)		
Manganese	0.0500			0.0505	mg/L		101	(80%-120%)	PRB	02/15/24 12:08
Molybdenum	0.0500			0.0539	mg/L		108	(80%-120%)	BAJ	02/13/24 21:42
Potassium	2.00			2.04	mg/L		102	(80%-120%)		
Selenium	0.0500			0.0498	mg/L		99.7	(80%-120%)		
Sodium	2.00			2.08	mg/L		104	(80%-120%)		

QC Summary

Workorder: **653853**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2562397										
Thallium	0.0500			0.0491	mg/L		98.2	(80%-120%)	BAJ	02/13/24 21:42
QC1205638452 MB										
Antimony			U	ND	mg/L					02/13/24 21:39
Arsenic			U	ND	mg/L					
Barium			U	ND	mg/L					
Beryllium			U	ND	mg/L					
Boron			U	ND	mg/L					02/14/24 11:26
Cadmium			U	ND	mg/L					02/13/24 21:39
Calcium			U	ND	mg/L					
Chromium			U	ND	mg/L					
Cobalt			U	ND	mg/L					
Iron			U	ND	mg/L					
Lead			U	ND	mg/L					
Lithium			U	ND	mg/L					
Magnesium			U	ND	mg/L					
Manganese			U	ND	mg/L				PRB	02/15/24 12:06

QC Summary

Workorder: **653853**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2562397											
Molybdenum				U	ND	mg/L				BAJ	02/13/24 21:39
Potassium				U	ND	mg/L					
Selenium				U	ND	mg/L					
Sodium				U	ND	mg/L					
Thallium				U	ND	mg/L					
QC1205638454 653853001 MS											
Antimony	0.0500	U	ND		0.0495	mg/L		99	(75%-125%)		02/13/24 21:47
Arsenic	0.0500	U	ND		0.0513	mg/L		99.2	(75%-125%)		
Barium	0.0500		0.0179		0.0655	mg/L		95	(75%-125%)		
Beryllium	0.0500		0.00114		0.0562	mg/L		110	(75%-125%)		
Boron	0.100		1.11		1.15	mg/L		N/A	(75%-125%)		02/14/24 11:32
Cadmium	0.0500	U	ND		0.0487	mg/L		97.4	(75%-125%)		02/13/24 21:47
Calcium	2.00		89.3		89.5	mg/L		N/A	(75%-125%)		02/14/24 11:32
Chromium	0.0500	U	ND		0.0496	mg/L		98.6	(75%-125%)		02/13/24 21:47
Cobalt	0.0500		0.00874		0.0574	mg/L		97.4	(75%-125%)		
Iron	2.00		23.8		25.2	mg/L		N/A	(75%-125%)		

QC Summary

Workorder: **653853**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2562397											
Lead	0.0500	U	ND		0.0469	mg/L		93.3	(75%-125%)	BAJ	02/13/24 21:47
Lithium	0.0500	J	0.00337		0.0558	mg/L		105	(75%-125%)		
Magnesium	2.00		10.2		12.0	mg/L		N/A	(75%-125%)		
Manganese	0.0500		1.62		1.66	mg/L		N/A	(75%-125%)	PRB	02/15/24 12:12
Molybdenum	0.0500	U	ND		0.0534	mg/L		107	(75%-125%)	BAJ	02/13/24 21:47
Potassium	2.00		10.6		12.3	mg/L		N/A	(75%-125%)		
Selenium	0.0500	J	0.00229		0.0522	mg/L		99.8	(75%-125%)		
Sodium	2.00		19.6		21.1	mg/L		N/A	(75%-125%)		
Thallium	0.0500	U	ND		0.0462	mg/L		92	(75%-125%)		
QC1205638455 653853001 MSD											
Antimony	0.0500	U	ND		0.0508	mg/L	2.44	101	(0%-20%)		02/13/24 21:50
Arsenic	0.0500	U	ND		0.0533	mg/L	3.79	103	(0%-20%)		
Barium	0.0500		0.0179		0.0663	mg/L	1.24	96.7	(0%-20%)		
Beryllium	0.0500		0.00114		0.0562	mg/L	0.0231	110	(0%-20%)		
Boron	0.100		1.11		1.16	mg/L	1.2	N/A	(0%-20%)		02/14/24 11:33
Cadmium	0.0500	U	ND		0.0505	mg/L	3.54	101	(0%-20%)		02/13/24 21:50

QC Summary

Workorder: **653853**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2562397											
Calcium	2.00		89.3		91.7	mg/L	2.38	N/A	(0%-20%)	BAJ	02/14/24 11:33
Chromium	0.0500	U	ND		0.0503	mg/L	1.43	100	(0%-20%)		02/13/24 21:50
Cobalt	0.0500		0.00874		0.0586	mg/L	2.03	99.7	(0%-20%)		
Iron	2.00		23.8		25.7	mg/L	2.19	N/A	(0%-20%)		
Lead	0.0500	U	ND		0.0479	mg/L	1.97	95.2	(0%-20%)		
Lithium	0.0500	J	0.00337		0.0562	mg/L	0.739	106	(0%-20%)		
Magnesium	2.00		10.2		12.2	mg/L	1.15	N/A	(0%-20%)		
Manganese	0.0500		1.62		1.71	mg/L	2.87	N/A	(0%-20%)	PRB	02/15/24 12:14
Molybdenum	0.0500	U	ND		0.0546	mg/L	2.36	109	(0%-20%)	BAJ	02/13/24 21:50
Potassium	2.00		10.6		12.5	mg/L	2.05	N/A	(0%-20%)		
Selenium	0.0500	J	0.00229		0.0540	mg/L	3.38	103	(0%-20%)		
Sodium	2.00		19.6		21.3	mg/L	0.907	N/A	(0%-20%)		
Thallium	0.0500	U	ND		0.0472	mg/L	2.1	94	(0%-20%)		
QC1205638456 653853001 SDILT											
Antimony		U	ND	U	ND	ug/L	N/A		(0%-20%)		02/13/24 21:56
Arsenic		U	ND	U	ND	ug/L	N/A		(0%-20%)		

QC Summary

Workorder: **653853**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2562397										
Barium		17.9	J	3.72	ug/L	3.6		(0%-20%)	BAJ	02/13/24 21:56
Beryllium		1.14	J	0.225	ug/L	1.32		(0%-20%)		
Boron		111		24.4	ug/L	10.2		(0%-20%)		02/14/24 11:35
Cadmium	U	ND	U	ND	ug/L	N/A		(0%-20%)		02/13/24 21:56
Calcium		8930		1840	ug/L	3.17		(0%-20%)		02/14/24 11:35
Chromium	U	ND	U	ND	ug/L	N/A		(0%-20%)		02/13/24 21:56
Cobalt		8.74		1.74	ug/L	.332		(0%-20%)		
Iron		23800		4800	ug/L	.673		(0%-20%)		
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Lithium	J	3.37	U	ND	ug/L	N/A		(0%-20%)		
Magnesium		10200		1970	ug/L	3.33		(0%-20%)		
Manganese		162		33.5	ug/L	3.38		(0%-20%)	PRB	02/15/24 12:18
Molybdenum	U	ND	U	ND	ug/L	N/A		(0%-20%)	BAJ	02/13/24 21:56
Potassium		10600		1980	ug/L	6.13		(0%-20%)		
Selenium	J	2.29	U	ND	ug/L	N/A		(0%-20%)		

QC Summary

Workorder: **653853**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2562397										
Sodium		19600		3810	ug/L	2.62		(0%-20%)	BAJ	02/13/24 21:56
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Metals Analysis-Mercury										
Batch 2562322										
QC1205638302 653746001 DUP										
Mercury	U	ND	U	ND	mg/L	N/A			JP2	02/05/24 11:39
QC1205638295 LCS										
Mercury	0.00200			0.00190	mg/L		95.1	(80%-120%)		02/05/24 10:55
QC1205638294 MB										
Mercury			U	ND	mg/L					02/05/24 10:54
QC1205638303 653746001 MS										
Mercury	0.00200	U	ND	0.00201	mg/L		101	(75%-125%)		02/05/24 11:41
QC1205638304 653746001 SDILT										
Mercury	U	ND	U	ND	ug/L	N/A		(0%-10%)		02/05/24 11:43
Solids Analysis										
Batch 2564661										
QC1205642691 653855005 DUP										
Total Dissolved Solids		393		389	mg/L	1.02		(0%-5%)	ES2	02/07/24 08:48
QC1205642690 LCS										
Total Dissolved Solids	300			293	mg/L		97.7	(95%-105%)		02/07/24 08:48
QC1205642689 MB										
Total Dissolved Solids			U	ND	mg/L					02/07/24 08:48

QC Summary

Workorder: **653853**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Spectrometric Analysis										
Batch 2562451										
QC1205638594 LCS										
Total Sulfide	0.400			0.403	mg/L		101	(85%-115%)	JW2	02/01/24 16:54
QC1205638593 MB										
Total Sulfide			U	ND	mg/L					02/01/24 16:54
QC1205638595 653853001 PS										
Total Sulfide	0.400 U	ND		0.279	mg/L		69.9*	(75%-125%)		02/01/24 16:54
QC1205638597 653855010 PS										
Total Sulfide	0.400 U	ND		0.234	mg/L		58.6*	(75%-125%)		02/01/24 16:55
QC1205638596 653853001 PSD										
Total Sulfide	0.400 U	ND		0.276	mg/L	1.14	69.1*	(0%-15%)		02/01/24 16:54
QC1205638598 653855010 PSD										
Total Sulfide	0.400 U	ND		0.229	mg/L	2.27	57.2*	(0%-15%)		02/01/24 16:55
Titration and Ion Analysis										
Batch 2562772										
QC1205639166 LCS										
Alkalinity, Total as CaCO3	50.0			51.8	mg/L		104	(90%-110%)	JW2	02/02/24 10:44
QC1205639167 LCS										
Alkalinity, Total as CaCO3	15.0			15.9	mg/L		106	(90%-110%)		02/02/24 10:47
QC1205639168 LCSD										
Alkalinity, Total as CaCO3	50.0			51.6	mg/L	0.387	103	(0%-20%)		02/02/24 10:46
QC1205639169 LCSD										
Alkalinity, Total as CaCO3	15.0			15.9	mg/L	0	106	(0%-20%)		02/02/24 10:48

Notes:

The Qualifiers in this report are defined as follows:

QC Summary

Workorder: **653853**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
N	Metals--The Matrix spike sample recovery is not within specified control limits
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
Z	Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
d	5-day BOD--The 2:1 depletion requirement was not met for this sample
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
E	%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
E	General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
FB	Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
R	Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.
B	The target analyte was detected in the associated blank.
e	5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes
J	See case narrative for an explanation

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

QC Summary

Report Date: February 16, 2024

Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia

Contact: **Joju Abraham**

Workorder: **653909**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography										
Batch 2562947										
QC1205639512 653909001 DUP										
Chloride		10.6		10.6	mg/L	0.0227		(0%-20%)	TXT1	02/09/24 12:08
Fluoride		0.202		0.200	mg/L	1.05 ^		(+/-0.100)		02/02/24 21:48
Nitrate-N	H	7.85	H	7.87	mg/L	0.237		(0%-20%)		02/09/24 12:08
Sulfate		787		786	mg/L	0.0827		(0%-20%)		02/09/24 13:43
QC1205639514 653909011 DUP										
Chloride		19.2		19.1	mg/L	0.0418 ^		(+/-8.00)		02/10/24 00:21
Fluoride		0.299		0.297	mg/L	0.671 ^		(+/-0.100)		02/02/24 20:44
Nitrate-N	U	ND	J	0.0386	mg/L	200				
Sulfate		355		356	mg/L	0.298		(0%-20%)		02/10/24 00:21
QC1205639511 LCS										
Chloride	5.00			4.96	mg/L		99.3	(90%-110%)		02/02/24 22:51
Fluoride	2.50			2.45	mg/L		97.9	(90%-110%)		
Nitrate-N	2.50			2.48	mg/L		99	(90%-110%)		
Sulfate	10.0			9.80	mg/L		98	(90%-110%)		
QC1205639510 MB										
Chloride			J	0.126	mg/L					02/02/24 23:23

QC Summary

Workorder: **653909**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography											
Batch 2562947											
Fluoride				U	ND	mg/L				TXT1	02/02/24 23:23
Nitrate-N				U	ND	mg/L					
Sulfate				U	ND	mg/L					
QC1205639513 653909001 PS											
Chloride	5.00		5.28		10.9	mg/L		112*	(90%-110%)		02/09/24 12:40
Fluoride	2.50		0.202		2.60	mg/L		96.1	(90%-110%)		02/02/24 22:20
Nitrate-N	2.50	H	3.93	H	6.83	mg/L		116*	(90%-110%)		02/09/24 12:40
Sulfate	10.0		7.87		18.4	mg/L		106	(90%-110%)		02/09/24 14:15
QC1205639515 653909011 PS											
Chloride	5.00		0.479		5.19	mg/L		94.2	(90%-110%)		02/10/24 00:53
Fluoride	2.50		0.299		2.72	mg/L		97	(90%-110%)		02/02/24 21:16
Nitrate-N	2.50	U	ND		2.47	mg/L		99	(90%-110%)		
Sulfate	10.0		8.89		19.2	mg/L		103	(90%-110%)		02/10/24 00:53
Batch 2562950											
QC1205639518 653909013 DUP											
Chloride			6.30		6.31	mg/L	0.1		(0%-20%)	CH6	02/02/24 16:04
Fluoride			0.215		0.216	mg/L	0.324 ^		(+/-0.100)		
Nitrate-N		U	ND	U	ND	mg/L	N/A				

QC Summary

Workorder: **653909**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography										
Batch 2562950										
Sulfate		145		145	mg/L	0.00552		(0%-20%)	CH6	02/02/24 23:47
QC1205639517 LCS										
Chloride	5.00			4.74	mg/L		94.8	(90%-110%)		02/02/24 14:32
Fluoride	2.50			2.41	mg/L		96.4	(90%-110%)		
Nitrate-N	2.50			2.41	mg/L		96.3	(90%-110%)		
Sulfate	10.0			9.73	mg/L		97.3	(90%-110%)		
QC1205639516 MB										
Chloride			J	0.157	mg/L					02/02/24 14:01
Fluoride			U	ND	mg/L					
Nitrate-N			U	ND	mg/L					
Sulfate			U	ND	mg/L					
QC1205639519 653909013 PS										
Chloride	5.00	6.30		12.1	mg/L		115*	(90%-110%)		02/02/24 16:35
Fluoride	2.50	0.215		2.61	mg/L		95.8	(90%-110%)		
Nitrate-N	2.50 U	ND		2.41	mg/L		96.5	(90%-110%)		
Sulfate	10.0	7.25		17.6	mg/L		103	(90%-110%)		02/03/24 00:18

QC Summary

Workorder: **653909**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2563145										
QC1205639784 LCS										
Antimony	0.0500			0.0469	mg/L		93.8	(80%-120%)	PRB	02/14/24 19:34
Arsenic	0.0500			0.0453	mg/L		90.7	(80%-120%)		
Barium	0.0500			0.0483	mg/L		96.7	(80%-120%)		
Beryllium	0.0500			0.0468	mg/L		93.6	(80%-120%)		
Boron	0.100			0.0947	mg/L		94.7	(80%-120%)		
Cadmium	0.0500			0.0465	mg/L		92.9	(80%-120%)		
Calcium	2.00			1.98	mg/L		98.8	(80%-120%)		
Chromium	0.0500			0.0456	mg/L		91.2	(80%-120%)		
Cobalt	0.0500			0.0457	mg/L		91.3	(80%-120%)		
Iron	2.00			1.99	mg/L		99.4	(80%-120%)		02/16/24 02:33
Lead	0.0500			0.0464	mg/L		92.8	(80%-120%)		02/14/24 19:34
Lithium	0.0500			0.0454	mg/L		90.8	(80%-120%)		
Magnesium	2.00			1.92	mg/L		96.2	(80%-120%)		
Manganese	0.0500			0.0533	mg/L		107	(80%-120%)		02/16/24 02:33
Molybdenum	0.0500			0.0469	mg/L		93.8	(80%-120%)		02/14/24 19:34

QC Summary

Workorder: **653909**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2563145										
Potassium	2.00			1.88	mg/L		94.1	(80%-120%)	PRB	02/14/24 19:34
Selenium	0.0500			0.0454	mg/L		90.9	(80%-120%)		
Sodium	2.00			1.90	mg/L		94.9	(80%-120%)		
Thallium	0.0500			0.0429	mg/L		85.8	(80%-120%)		
QC1205639783 MB										
Antimony			U	ND	mg/L					02/14/24 19:30
Arsenic			U	ND	mg/L					
Barium			U	ND	mg/L					
Beryllium			U	ND	mg/L					
Boron			U	ND	mg/L					
Cadmium			U	ND	mg/L					
Calcium			U	ND	mg/L					
Chromium			U	ND	mg/L					
Cobalt			U	ND	mg/L					
Iron			U	ND	mg/L					02/16/24 02:29
Lead			U	ND	mg/L					02/14/24 19:30

QC Summary

Workorder: **653909**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2563145											
Lithium				U	ND	mg/L				PRB	02/14/24 19:30
Magnesium				U	ND	mg/L					
Manganese					0.00356	mg/L					02/16/24 02:29
Molybdenum				U	ND	mg/L					02/14/24 19:30
Potassium				U	ND	mg/L					
Selenium				U	ND	mg/L					
Sodium				U	ND	mg/L					
Thallium				U	ND	mg/L					
QC1205639785 653909001 MS											
Antimony	0.0500	U	ND		0.0486	mg/L		97	(75%-125%)		02/14/24 19:41
Arsenic	0.0500	J	0.00242		0.0511	mg/L		97.4	(75%-125%)		
Barium	0.0500		0.0259		0.0734	mg/L		94.9	(75%-125%)		
Beryllium	0.0500	U	ND		0.0503	mg/L		100	(75%-125%)		
Boron	0.100		0.269		0.328	mg/L		58.6*	(75%-125%)		02/16/24 03:05
Cadmium	0.0500	U	ND		0.0470	mg/L		94	(75%-125%)		02/14/24 19:41
Calcium	2.00		195		195	mg/L		N/A	(75%-125%)		02/16/24 03:05

QC Summary

Workorder: **653909**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2563145											
Chromium	0.0500	U	ND		0.0472	mg/L		94.3	(75%-125%)	PRB	02/14/24 19:41
Cobalt	0.0500		0.131		0.180	mg/L		98.1	(75%-125%)		
Iron	2.00		3.41		5.50	mg/L		105	(75%-125%)		02/16/24 02:47
Lead	0.0500	U	ND		0.0466	mg/L		93.1	(75%-125%)		02/14/24 19:41
Lithium	0.0500		0.0254		0.0748	mg/L		98.9	(75%-125%)		
Magnesium	2.00		79.2		78.1	mg/L		N/A	(75%-125%)		02/16/24 03:05
Manganese	0.0500		9.15		8.95	mg/L		N/A	(75%-125%)		
Molybdenum	0.0500	J	0.000839		0.0510	mg/L		100	(75%-125%)		02/14/24 19:41
Potassium	2.00		10.2		11.9	mg/L		N/A	(75%-125%)		
Selenium	0.0500	U	ND		0.0517	mg/L		103	(75%-125%)		
Sodium	2.00		39.6		43.1	mg/L		N/A	(75%-125%)		
Thallium	0.0500	U	ND		0.0431	mg/L		86.2	(75%-125%)		
QC1205639786 653909001 MSD											
Antimony	0.0500	U	ND		0.0500	mg/L	2.93	99.8	(0%-20%)		02/14/24 19:45
Arsenic	0.0500	J	0.00242		0.0518	mg/L	1.34	98.7	(0%-20%)		
Barium	0.0500		0.0259		0.0758	mg/L	3.25	99.8	(0%-20%)		

QC Summary

Workorder: **653909**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2563145											
Beryllium	0.0500	U	ND		0.0497	mg/L	1.04	99.2	(0%-20%)	PRB	02/14/24 19:45
Boron	0.100		0.269		0.345	mg/L	4.98	75.4	(0%-20%)		02/16/24 03:09
Cadmium	0.0500	U	ND		0.0498	mg/L	5.79	99.6	(0%-20%)		02/14/24 19:45
Calcium	2.00		195		195	mg/L	0.252	N/A	(0%-20%)		02/16/24 03:09
Chromium	0.0500	U	ND		0.0472	mg/L	0.0275	94.3	(0%-20%)		02/14/24 19:45
Cobalt	0.0500		0.131		0.177	mg/L	1.18	93.9	(0%-20%)		
Iron	2.00		3.41		5.50	mg/L	0.114	104	(0%-20%)		02/16/24 02:51
Lead	0.0500	U	ND		0.0471	mg/L	1.06	94.1	(0%-20%)		02/14/24 19:45
Lithium	0.0500		0.0254		0.0743	mg/L	0.659	97.9	(0%-20%)		
Magnesium	2.00		79.2		79.1	mg/L	1.27	N/A	(0%-20%)		02/16/24 03:09
Manganese	0.0500		9.15		9.07	mg/L	1.27	N/A	(0%-20%)		
Molybdenum	0.0500	J	0.000839		0.0536	mg/L	4.92	106	(0%-20%)		02/14/24 19:45
Potassium	2.00		10.2		12.1	mg/L	1.79	N/A	(0%-20%)		
Selenium	0.0500	U	ND		0.0514	mg/L	0.688	102	(0%-20%)		
Sodium	2.00		39.6		42.6	mg/L	1.12	N/A	(0%-20%)		

QC Summary

Workorder: **653909**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2563145											
Thallium	0.0500	U	ND		0.0436	mg/L	1.11	87.2	(0%-20%)	PRB	02/14/24 19:45
QC1205649431 653909001 PS											
Boron	50.0		26.9		75.9	ug/L		98	(75%-125%)		02/16/24 03:13
QC1205639787 653909001 SDILT											
Antimony		U	ND	U	ND	ug/L	N/A		(0%-20%)		02/14/24 19:52
Arsenic		J	2.42	U	ND	ug/L	N/A		(0%-20%)		
Barium			25.9		4.98	ug/L	4.03		(0%-20%)		
Beryllium		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Boron			26.9	U	ND	ug/L	N/A		(0%-20%)		02/16/24 03:16
Cadmium		U	ND	U	ND	ug/L	N/A		(0%-20%)		02/14/24 19:52
Calcium			19500		3770	ug/L	3.43		(0%-20%)		02/16/24 03:16
Chromium		U	ND	U	ND	ug/L	N/A		(0%-20%)		02/14/24 19:52
Cobalt			131		27.9	ug/L	6.76		(0%-20%)		
Iron			3410		707	ug/L	3.61		(0%-20%)		02/16/24 02:58
Lead		U	ND	U	ND	ug/L	N/A		(0%-20%)		02/14/24 19:52
Lithium			25.4	J	4.92	ug/L	3.06		(0%-20%)		

QC Summary

Workorder: **653909**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2563145										
Magnesium		7920		1510	ug/L	4.72		(0%-20%)	PRB	02/16/24 03:16
Manganese		915		177	ug/L	3.38		(0%-20%)		
Molybdenum	J	0.839	U	ND	ug/L	N/A		(0%-20%)		02/14/24 19:52
Potassium		10200		2080	ug/L	1.8		(0%-20%)		
Selenium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Sodium		39600		7940	ug/L	.41		(0%-20%)		
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Batch 2563148										
QC1205639791 LCS										
Antimony	0.0500			0.0469	mg/L		93.8	(80%-120%)	PRB	02/14/24 20:50
Arsenic	0.0500			0.0461	mg/L		92.2	(80%-120%)		
Barium	0.0500			0.0472	mg/L		94.3	(80%-120%)		
Beryllium	0.0500			0.0487	mg/L		97.4	(80%-120%)		
Boron	0.100			0.0999	mg/L		99.9	(80%-120%)		02/16/24 00:30
Cadmium	0.0500			0.0462	mg/L		92.3	(80%-120%)		02/14/24 20:50
Calcium	2.00			1.96	mg/L		98.2	(80%-120%)		
Chromium	0.0500			0.0463	mg/L		92.7	(80%-120%)		

QC Summary

Workorder: **653909**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2563148										
Cobalt	0.0500			0.0477	mg/L		95.5	(80%-120%)	PRB	02/14/24 20:50
Iron	2.00			1.94	mg/L		96.8	(80%-120%)		02/16/24 00:30
Lead	0.0500			0.0464	mg/L		92.7	(80%-120%)		02/14/24 20:50
Lithium	0.0500			0.0468	mg/L		93.6	(80%-120%)		
Magnesium	2.00			1.95	mg/L		97.6	(80%-120%)		
Manganese	0.0500			0.0484	mg/L		96.9	(80%-120%)		02/16/24 00:30
Molybdenum	0.0500			0.0468	mg/L		93.7	(80%-120%)		02/14/24 20:50
Potassium	2.00			1.91	mg/L		95.6	(80%-120%)		
Selenium	0.0500			0.0461	mg/L		92.2	(80%-120%)		
Sodium	2.00			1.94	mg/L		97	(80%-120%)		
Thallium	0.0500			0.0430	mg/L		86.1	(80%-120%)		
QC1205639790 MB										
Antimony			U	ND	mg/L					02/14/24 20:46
Arsenic			U	ND	mg/L					
Barium			U	ND	mg/L					
Beryllium			U	ND	mg/L					

QC Summary

Workorder: **653909**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2563148										
Boron			U	ND	mg/L				PRB	02/16/24 00:26
Cadmium			U	ND	mg/L					02/14/24 20:46
Calcium			U	ND	mg/L					
Chromium			U	ND	mg/L					
Cobalt			U	ND	mg/L					
Iron			U	ND	mg/L					02/16/24 00:26
Lead			U	ND	mg/L					02/14/24 20:46
Lithium			U	ND	mg/L					
Magnesium			U	ND	mg/L					
Manganese			U	ND	mg/L					02/16/24 00:26
Molybdenum			U	ND	mg/L					02/14/24 20:46
Potassium			U	ND	mg/L					
Selenium			U	ND	mg/L					
Sodium			U	ND	mg/L					
Thallium			U	ND	mg/L					

QC Summary

Workorder: **653909**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2563148											
QC1205639792 653909013 MS											
Antimony	0.0500	U	ND		0.0492	mg/L		98.3	(75%-125%)	PRB	02/14/24 21:01
Arsenic	0.0500	U	ND		0.0475	mg/L		93.8	(75%-125%)		
Barium	0.0500		0.0414		0.0886	mg/L		94.4	(75%-125%)		
Beryllium	0.0500	U	ND		0.0499	mg/L		99.8	(75%-125%)		
Boron	0.100		1.61		1.70	mg/L		N/A	(75%-125%)		02/16/24 01:06
Cadmium	0.0500	U	ND		0.0468	mg/L		93.7	(75%-125%)		02/14/24 21:01
Calcium	2.00		36.4		38.8	mg/L		N/A	(75%-125%)		
Chromium	0.0500	U	ND		0.0488	mg/L		97.6	(75%-125%)		
Cobalt	0.0500	J	0.000420		0.0496	mg/L		98.3	(75%-125%)		
Iron	2.00		1.03		3.05	mg/L		101	(75%-125%)		02/16/24 00:48
Lead	0.0500	U	ND		0.0474	mg/L		94.8	(75%-125%)		02/14/24 21:01
Lithium	0.0500		0.0122		0.0616	mg/L		98.8	(75%-125%)		
Magnesium	2.00		17.5		19.5	mg/L		N/A	(75%-125%)		
Manganese	0.0500		0.554		0.607	mg/L		N/A	(75%-125%)		02/16/24 00:48
Molybdenum	0.0500	J	0.000564		0.0506	mg/L		100	(75%-125%)		02/14/24 21:01

QC Summary

Workorder: **653909**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2563148											
Potassium	2.00		4.46		6.42	mg/L		98.3	(75%-125%)	PRB	02/14/24 21:01
Selenium	0.0500	U	ND		0.0465	mg/L		92.8	(75%-125%)		
Sodium	2.00		17.6		19.7	mg/L		N/A	(75%-125%)		
Thallium	0.0500	U	ND		0.0451	mg/L		90.1	(75%-125%)		
QC1205639793 653909013 MSD											
Antimony	0.0500	U	ND		0.0489	mg/L	0.61	97.7	(0%-20%)		02/14/24 21:04
Arsenic	0.0500	U	ND		0.0488	mg/L	2.84	96.5	(0%-20%)		
Barium	0.0500		0.0414		0.0905	mg/L	2.1	98.1	(0%-20%)		
Beryllium	0.0500	U	ND		0.0490	mg/L	1.81	98.1	(0%-20%)		
Boron	0.100		1.61		1.62	mg/L	4.69	N/A	(0%-20%)		02/16/24 01:10
Cadmium	0.0500	U	ND		0.0481	mg/L	2.6	96.2	(0%-20%)		02/14/24 21:04
Calcium	2.00		36.4		38.2	mg/L	1.51	N/A	(0%-20%)		
Chromium	0.0500	U	ND		0.0479	mg/L	1.86	95.8	(0%-20%)		
Cobalt	0.0500	J	0.000420		0.0492	mg/L	0.716	97.6	(0%-20%)		
Iron	2.00		1.03		3.11	mg/L	1.98	104	(0%-20%)		02/16/24 00:52
Lead	0.0500	U	ND		0.0462	mg/L	2.63	92.3	(0%-20%)		02/14/24 21:04

QC Summary

Workorder: **653909**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2563148											
Lithium	0.0500		0.0122		0.0595	mg/L	3.47	94.7	(0%-20%)	PRB	02/14/24 21:04
Magnesium	2.00		17.5		19.1	mg/L	1.88	N/A	(0%-20%)		
Manganese	0.0500		0.554		0.618	mg/L	1.78	N/A	(0%-20%)		02/16/24 00:52
Molybdenum	0.0500	J	0.000564		0.0508	mg/L	0.361	100	(0%-20%)		02/14/24 21:04
Potassium	2.00		4.46		6.34	mg/L	1.27	94.2	(0%-20%)		
Selenium	0.0500	U	ND		0.0489	mg/L	5.03	97.6	(0%-20%)		
Sodium	2.00		17.6		19.2	mg/L	2.68	N/A	(0%-20%)		
Thallium	0.0500	U	ND		0.0442	mg/L	1.97	88.4	(0%-20%)		
QC1205639794 653909013 SDILT											
Antimony		U	ND	U	ND	ug/L	N/A		(0%-20%)		02/14/24 21:11
Arsenic		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Barium			41.4		7.99	ug/L	3.47		(0%-20%)		
Beryllium		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Boron			161		33.3	ug/L	3.57		(0%-20%)		02/16/24 01:17
Cadmium		U	ND	U	ND	ug/L	N/A		(0%-20%)		02/14/24 21:11
Calcium			36400		7250	ug/L	.299		(0%-20%)		

QC Summary

Workorder: **653909**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2563148										
Chromium	U	ND	U	ND	ug/L	N/A		(0%-20%)	PRB	02/14/24 21:11
Cobalt	J	0.420	U	ND	ug/L	N/A		(0%-20%)		
Iron		1030		200	ug/L	3.35		(0%-20%)		02/16/24 00:59
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)		02/14/24 21:11
Lithium		12.2	U	ND	ug/L	N/A		(0%-20%)		
Magnesium		17500		3540	ug/L	1.11		(0%-20%)		
Manganese		554		107	ug/L	3.54		(0%-20%)		02/16/24 00:59
Molybdenum	J	0.564	U	ND	ug/L	N/A		(0%-20%)		02/14/24 21:11
Potassium		4460		894	ug/L	.232		(0%-20%)		
Selenium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Sodium		17600		3550	ug/L	.83		(0%-20%)		
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Metals Analysis-Mercury										
Batch 2563281										
QC1205640117 653892003 DUP										
Mercury	U	ND	U	ND	mg/L	N/A			JP2	02/06/24 11:53
QC1205640116 LCS										
Mercury	0.00200			0.00195	mg/L		97.4	(80%-120%)		02/06/24 11:29

QC Summary

Workorder: 653909

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis-Mercury										
Batch 2563281										
QC1205640115 MB										
Mercury			U	ND	mg/L				JP2	02/06/24 11:27
QC1205640118 653892003 MS										
Mercury	0.00200	U ND		0.00192	mg/L		96.2	(75%-125%)		02/06/24 11:55
QC1205640119 653892003 SDILT										
Mercury		U ND	U	ND	ug/L	N/A		(0%-10%)		02/06/24 11:57
Batch 2563285										
QC1205640129 653922001 DUP										
Mercury		U ND	U	ND	mg/L	N/A			JP2	02/06/24 10:11
QC1205640128 LCS										
Mercury	0.00200			0.00203	mg/L		101	(80%-120%)		02/06/24 09:43
QC1205640127 MB										
Mercury			U	ND	mg/L					02/06/24 09:42
QC1205640130 653922001 MS										
Mercury	0.00200	U ND		0.00194	mg/L		97	(75%-125%)		02/06/24 10:13
QC1205640131 653922001 SDILT										
Mercury		U ND	U	ND	ug/L	N/A		(0%-10%)		02/06/24 10:14
Solids Analysis										
Batch 2565277										
QC1205643759 653909001 DUP										
Total Dissolved Solids		1330		1310	mg/L	1.37		(0%-5%)	ES2	02/08/24 08:04
QC1205643760 653909015 DUP										
Total Dissolved Solids		4420		3900	mg/L	12.5*		(0%-5%)		02/08/24 08:04

QC Summary

Workorder: 653909

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Solids Analysis										
Batch 2565277										
QC1205643758 LCS										
Total Dissolved Solids	300			308	mg/L		103	(95%-105%)	ES2	02/08/24 08:04
QC1205643757 MB										
Total Dissolved Solids			U	ND	mg/L					02/08/24 08:04
Batch 2565278										
QC1205643765 654364002 DUP										
Total Dissolved Solids		365		399	mg/L	8.9*		(0%-5%)	ES2	02/08/24 08:46
QC1205643762 LCS										
Total Dissolved Solids	300			301	mg/L		100	(95%-105%)		02/08/24 08:46
QC1205643761 MB										
Total Dissolved Solids			U	ND	mg/L					02/08/24 08:46
Spectrometric Analysis										
Batch 2562850										
QC1205639329 LCS										
Total Sulfide	0.400			0.400	mg/L		100	(85%-115%)	JW2	02/02/24 13:04
QC1205639328 MB										
Total Sulfide			U	ND	mg/L					02/02/24 13:04
QC1205639330 653686004 PS										
Total Sulfide	0.400	U ND		0.408	mg/L		102	(75%-125%)		02/02/24 13:04
QC1205639331 653686004 PSD										
Total Sulfide	0.400	U ND		0.406	mg/L	0.516	101	(0%-15%)		02/02/24 13:04
Batch 2562851										
QC1205639333 LCS										
Total Sulfide	0.400			0.401	mg/L		100	(85%-115%)	JW2	02/02/24 13:24

QC Summary

Workorder: 653909

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Spectrometric Analysis											
Batch 2562851											
QC1205639332 MB											
Total Sulfide				U	ND	mg/L				JW2	02/02/24 13:24
QC1205639334 653909005 PS											
Total Sulfide	0.400	U	ND		0.150	mg/L		37.6*	(75%-125%)		02/02/24 13:24
QC1205639336 653909020 PS											
Total Sulfide	0.400	U	ND		0.367	mg/L		91.7	(75%-125%)		02/02/24 13:25
QC1205639335 653909005 PSD											
Total Sulfide	0.400	U	ND		0.146	mg/L	2.83	36.6*	(0%-15%)		02/02/24 13:24
QC1205639337 653909020 PSD											
Total Sulfide	0.400	U	ND		0.368	mg/L	0.286	92	(0%-15%)		02/02/24 13:25
Titration and Ion Analysis											
Batch 2562852											
QC1205639340 LCS											
Alkalinity, Total as CaCO3	50.0				51.9	mg/L		104	(90%-110%)	JW2	02/02/24 11:52
QC1205639341 LCS											
Alkalinity, Total as CaCO3	15.0				15.0	mg/L		100	(90%-110%)		02/02/24 11:54
QC1205639342 LCSD											
Alkalinity, Total as CaCO3	50.0				52.2	mg/L	0.576	104	(0%-20%)		02/02/24 11:53
QC1205639343 LCSD											
Alkalinity, Total as CaCO3	15.0				15.7	mg/L	4.56	105	(0%-20%)		02/02/24 11:55
Batch 2562854											
QC1205639344 LCS											
Alkalinity, Total as CaCO3	50.0				51.6	mg/L		103	(90%-110%)	JW2	02/02/24 12:11

QC Summary

Workorder: **653909**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Titration and Ion Analysis										
Batch 2562854										
QC1205639345 LCS										
Alkalinity, Total as CaCO3	15.0			15.0	mg/L		100	(90%-110%)	JW2	02/02/24 12:14
QC1205639346 LCSD										
Alkalinity, Total as CaCO3	50.0			51.9	mg/L	0.58	104	(0%-20%)		02/02/24 12:12
QC1205639347 LCSD										
Alkalinity, Total as CaCO3	15.0			15.9	mg/L	5.83	106	(0%-20%)		02/02/24 12:15

Notes:

The Qualifiers in this report are defined as follows:

U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
N	Metals--The Matrix spike sample recovery is not within specified control limits
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
Z	Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
d	5-day BOD--The 2:1 depletion requirement was not met for this sample
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
E	%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
E	General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
FB	Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
R	Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.

QC Summary

Workorder: **653909**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

B The target analyte was detected in the associated blank.

e 5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes

J See case narrative for an explanation

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

QC Summary

Report Date: February 14, 2024

Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia

Contact: **Joju Abraham**

Workorder: **653582**

Parmname	NOM		Sample	Qual	QC	Units	RPD%		REC%	Range	Anlst	Date	Time
Ion Chromatography													
Batch 2561599													
QC1205637122 653570001 DUP													
Chloride			2.14		2.13	mg/L	0.501			(0%-20%)	CH6	01/31/24	17:39
Fluoride			0.184		0.189	mg/L	2.79	^		(+/-0.100)			
Nitrate-N			0.275		0.273	mg/L	0.803	^		(+/-0.100)			
Sulfate			0.423		0.411	mg/L	2.83	^		(+/-0.400)			
QC1205637124 653582003 DUP													
Chloride			6.36		6.34	mg/L	0.331			(0%-20%)		02/01/24	01:22
Fluoride			0.242		0.245	mg/L	1.23	^		(+/-0.100)			
Nitrate-N		J	0.0660	U	ND	mg/L	200	^					
Sulfate			42.4		42.2	mg/L	0.475			(0%-20%)		02/01/24	18:29
QC1205637121 LCS													
Chloride	5.00				4.83	mg/L			96.7	(90%-110%)		01/31/24	16:06
Fluoride	2.50				2.39	mg/L			95.6	(90%-110%)			
Nitrate-N	2.50				2.39	mg/L			95.5	(90%-110%)			
Sulfate	10.0				9.77	mg/L			97.7	(90%-110%)			
QC1205637120 MB													
Chloride				U	ND	mg/L						01/31/24	15:36

QC Summary

Workorder: 653582

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography											
Batch 2561599											
Fluoride				U	ND	mg/L				CH6	01/31/24 15:36
Nitrate-N				U	ND	mg/L					
Sulfate				U	ND	mg/L					
QC1205637123 653570001 PS											
Chloride	5.00		2.14		7.30	mg/L		103	(90%-110%)		01/31/24 17:08
Fluoride	2.50		0.184		2.62	mg/L		97.5	(90%-110%)		
Nitrate-N	2.50		0.275		2.68	mg/L		96	(90%-110%)		
Sulfate	10.0		0.423		10.3	mg/L		98.4	(90%-110%)		
QC1205637125 653582003 PS											
Chloride	5.00		6.36		12.1	mg/L		115*	(90%-110%)		02/01/24 01:53
Fluoride	2.50		0.242		2.67	mg/L		97.1	(90%-110%)		
Nitrate-N	2.50	J	0.0660		2.45	mg/L		95.5	(90%-110%)		
Sulfate	10.0		8.49		18.9	mg/L		104	(90%-110%)		02/02/24 22:46
Metals Analysis - ICPMS											
Batch 2561630											
QC1205637184 LCS											
Antimony	0.0500				0.0489	mg/L		97.9	(80%-120%)	PRB	02/10/24 00:33
Arsenic	0.0500				0.0497	mg/L		99.4	(80%-120%)		
Barium	0.0500				0.0517	mg/L		103	(80%-120%)		

QC Summary

Workorder: **653582**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2561630										
Beryllium	0.0500			0.0563	mg/L		113	(80%-120%)	PRB	02/10/24 00:33
Boron	0.100			0.113	mg/L		113	(80%-120%)		02/12/24 13:08
Cadmium	0.0500			0.0505	mg/L		101	(80%-120%)		02/10/24 00:33
Calcium	2.00			2.14	mg/L		107	(80%-120%)		02/12/24 13:08
Chromium	0.0500			0.0488	mg/L		97.5	(80%-120%)		02/10/24 00:33
Cobalt	0.0500			0.0499	mg/L		99.8	(80%-120%)		
Iron	2.00			1.97	mg/L		98.4	(80%-120%)		
Lead	0.0500			0.0495	mg/L		98.9	(80%-120%)		
Lithium	0.0500			0.0535	mg/L		107	(80%-120%)		
Magnesium	2.00			2.24	mg/L		112	(80%-120%)		02/12/24 13:08
Manganese	0.0500			0.0506	mg/L		101	(80%-120%)		02/13/24 09:46
Molybdenum	0.0500			0.0522	mg/L		104	(80%-120%)		02/10/24 00:33
Potassium	2.00			2.06	mg/L		103	(80%-120%)		
Selenium	0.0500			0.0501	mg/L		100	(80%-120%)		
Sodium	2.00			2.09	mg/L		105	(80%-120%)		

QC Summary

Workorder: **653582**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2561630										
Thallium	0.0500			0.0486	mg/L		97.1	(80%-120%)	PRB	02/10/24 00:33
QC1205637183 MB										
Antimony			U	ND	mg/L					02/10/24 00:30
Arsenic			U	ND	mg/L					
Barium			U	ND	mg/L					
Beryllium			U	ND	mg/L					
Boron			U	ND	mg/L					02/12/24 13:07
Cadmium			U	ND	mg/L					02/10/24 00:30
Calcium			U	ND	mg/L					02/12/24 13:07
Chromium			U	ND	mg/L					02/10/24 00:30
Cobalt			U	ND	mg/L					
Iron			U	ND	mg/L					
Lead			U	ND	mg/L					
Lithium			U	ND	mg/L					
Magnesium			U	ND	mg/L					02/12/24 13:07
Manganese			U	ND	mg/L					02/13/24 09:44

QC Summary

Workorder: **653582**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2561630											
Molybdenum				U	ND	mg/L				PRB	02/10/24 00:30
Potassium				U	ND	mg/L					
Selenium				U	ND	mg/L					
Sodium				U	ND	mg/L					
Thallium				U	ND	mg/L					
QC1205637185 653570001 MS											
Antimony	0.0500	U	ND		0.0501	mg/L		100	(75%-125%)		02/10/24 00:39
Arsenic	0.0500	U	ND		0.0502	mg/L		99.2	(75%-125%)		
Barium	0.0500		0.0137		0.0660	mg/L		105	(75%-125%)		
Beryllium	0.0500	U	ND		0.0590	mg/L		118	(75%-125%)		
Boron	0.100	U	ND		0.117	mg/L		113	(75%-125%)		02/12/24 13:12
Cadmium	0.0500	U	ND		0.0504	mg/L		101	(75%-125%)		02/10/24 00:39
Calcium	2.00		5.25		7.52	mg/L		114	(75%-125%)		02/12/24 13:12
Chromium	0.0500	J	0.00854		0.0593	mg/L		102	(75%-125%)		02/10/24 00:39
Cobalt	0.0500	J	0.000962		0.0528	mg/L		104	(75%-125%)		
Iron	2.00		0.119		2.17	mg/L		102	(75%-125%)		

QC Summary

Workorder: **653582**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2561630											
Lead	0.0500	U	ND		0.0500	mg/L		99.9	(75%-125%)	PRB	02/10/24 00:39
Lithium	0.0500	U	ND		0.0565	mg/L		112	(75%-125%)		
Magnesium	2.00		5.36		7.64	mg/L		114	(75%-125%)		02/12/24 13:12
Manganese	0.0500		0.0378		0.0910	mg/L		106	(75%-125%)		02/13/24 09:50
Molybdenum	0.0500	U	ND		0.0533	mg/L		107	(75%-125%)		02/10/24 00:39
Potassium	2.00		0.443		2.53	mg/L		104	(75%-125%)		
Selenium	0.0500	U	ND		0.0507	mg/L		101	(75%-125%)		
Sodium	2.00		3.51		5.63	mg/L		106	(75%-125%)		
Thallium	0.0500	U	ND		0.0487	mg/L		97.4	(75%-125%)		
QC1205637186 653570001 MSD											
Antimony	0.0500	U	ND		0.0507	mg/L	1.1	101	(0%-20%)		02/10/24 00:42
Arsenic	0.0500	U	ND		0.0511	mg/L	1.87	101	(0%-20%)		
Barium	0.0500		0.0137		0.0668	mg/L	1.3	106	(0%-20%)		
Beryllium	0.0500	U	ND		0.0605	mg/L	2.57	121	(0%-20%)		
Boron	0.100	U	ND		0.120	mg/L	3.14	117	(0%-20%)		02/12/24 13:13
Cadmium	0.0500	U	ND		0.0510	mg/L	1.22	102	(0%-20%)		02/10/24 00:42

QC Summary

Workorder: **653582**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2561630											
Calcium	2.00		5.25		7.64	mg/L	1.52	119	(0%-20%)	PRB	02/12/24 13:13
Chromium	0.0500	J	0.00854		0.0592	mg/L	0.14	101	(0%-20%)		02/10/24 00:42
Cobalt	0.0500	J	0.000962		0.0531	mg/L	0.648	104	(0%-20%)		
Iron	2.00		0.119		2.21	mg/L	2.09	105	(0%-20%)		
Lead	0.0500	U	ND		0.0512	mg/L	2.45	102	(0%-20%)		
Lithium	0.0500	U	ND		0.0571	mg/L	1.03	113	(0%-20%)		
Magnesium	2.00		5.36		7.84	mg/L	2.67	124	(0%-20%)		02/12/24 13:13
Manganese	0.0500		0.0378		0.0910	mg/L	0.0418	106	(0%-20%)		02/13/24 09:52
Molybdenum	0.0500	U	ND		0.0540	mg/L	1.23	108	(0%-20%)		02/10/24 00:42
Potassium	2.00		0.443		2.59	mg/L	2.49	107	(0%-20%)		
Selenium	0.0500	U	ND		0.0514	mg/L	1.48	103	(0%-20%)		
Sodium	2.00		3.51		5.75	mg/L	2.27	112	(0%-20%)		
Thallium	0.0500	U	ND		0.0494	mg/L	1.48	98.8	(0%-20%)		
QC1205637187 653570001 SDILT											
Antimony		U	ND	U	ND	ug/L	N/A		(0%-20%)		02/10/24 00:47
Arsenic		U	ND	U	ND	ug/L	N/A		(0%-20%)		

QC Summary

Workorder: **653582**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2561630										
Barium		13.7	J	2.52	ug/L	7.99		(0%-20%)	PRB	02/10/24 00:47
Beryllium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Boron	U	ND	U	ND	ug/L	N/A		(0%-20%)		02/12/24 13:15
Cadmium	U	ND	U	ND	ug/L	N/A		(0%-20%)		02/10/24 00:47
Calcium		5250		1040	ug/L	.721		(0%-20%)		02/12/24 13:15
Chromium	J	8.54	U	ND	ug/L	N/A		(0%-20%)		02/10/24 00:47
Cobalt	J	0.962	U	ND	ug/L	N/A		(0%-20%)		
Iron		119	U	ND	ug/L	N/A		(0%-20%)		
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Lithium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Magnesium		5360		997	ug/L	7.04		(0%-20%)		02/12/24 13:15
Manganese		37.8		7.44	ug/L	1.55		(0%-20%)		02/13/24 09:56
Molybdenum	U	ND	U	ND	ug/L	N/A		(0%-20%)		02/10/24 00:47
Potassium		443	J	82.7	ug/L	6.62		(0%-20%)		
Selenium	U	ND	U	ND	ug/L	N/A		(0%-20%)		

QC Summary

Workorder: **653582**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2561630										
Sodium		3510		643	ug/L	8.27		(0%-20%)	PRB	02/10/24 00:47
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Metals Analysis-Mercury										
Batch 2561614										
QC1205637176 653616001 DUP										
Mercury	U	ND	U	ND	mg/L	N/A			JP2	02/02/24 13:24
QC1205637172 LCS										
Mercury	0.00200			0.00174	mg/L		86.8	(80%-120%)		02/02/24 12:47
QC1205637171 MB										
Mercury			U	ND	mg/L					02/02/24 12:45
QC1205637177 653616001 MS										
Mercury	0.00200	U	ND	0.00180	mg/L		89.2	(75%-125%)		02/02/24 13:26
QC1205637178 653616001 SDILT										
Mercury	U	ND	U	ND	ug/L	N/A		(0%-10%)		02/02/24 13:28
Solids Analysis										
Batch 2563910										
QC1205641440 653575002 DUP										
Total Dissolved Solids		502		509	mg/L	1.38		(0%-5%)	ES2	02/06/24 08:07
QC1205641438 LCS										
Total Dissolved Solids	300			297	mg/L		99	(95%-105%)		02/06/24 08:07
QC1205641437 MB										
Total Dissolved Solids			U	ND	mg/L					02/06/24 08:07

QC Summary

Workorder: **653582**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Spectrometric Analysis										
Batch 2561631										
QC1205637189 LCS										
Total Sulfide	0.400			0.401	mg/L		100	(85%-115%)	JW2	01/31/24 16:37
QC1205637188 MB										
Total Sulfide			U	ND	mg/L					01/31/24 16:37
QC1205637190 653570001 PS										
Total Sulfide	0.400 U	ND		0.421	mg/L		105	(75%-125%)		01/31/24 16:38
QC1205637192 653582003 PS										
Total Sulfide	0.400 U	ND		0.294	mg/L		73.5*	(75%-125%)		01/31/24 16:38
QC1205637191 653570001 PSD										
Total Sulfide	0.400 U	ND		0.418	mg/L	0.75	104	(0%-15%)		01/31/24 16:38
QC1205637193 653582003 PSD										
Total Sulfide	0.400 U	ND		0.289	mg/L	1.8	72.2*	(0%-15%)		01/31/24 16:38
Titration and Ion Analysis										
Batch 2561936										
QC1205637749 LCS										
Alkalinity, Total as CaCO3	50.0			52.3	mg/L		105	(90%-110%)	JW2	02/01/24 10:50
QC1205637750 LCS										
Alkalinity, Total as CaCO3	15.0			15.1	mg/L		101	(90%-110%)		02/01/24 10:54
QC1205637751 LCSD										
Alkalinity, Total as CaCO3	50.0			52.1	mg/L	0.383	104	(0%-20%)		02/01/24 10:52
QC1205637752 LCSD										
Alkalinity, Total as CaCO3	15.0			15.2	mg/L	0.66	101	(0%-20%)		02/01/24 10:55

Notes:

The Qualifiers in this report are defined as follows:

QC Summary

Workorder: **653582**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
N	Metals--The Matrix spike sample recovery is not within specified control limits
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
Z	Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
d	5-day BOD--The 2:1 depletion requirement was not met for this sample
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
E	%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
E	General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
FB	Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
R	Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.
B	The target analyte was detected in the associated blank.
e	5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes
J	See case narrative for an explanation

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Technical Case Narrative
Georgia Power Company
SDG #: 653853

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2562397

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 14
Preparation Batch: 2562396

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
653853001	BRA-BRGWC-29I
653853002	BRA-BRGWC-25I
653853003	BRA-BRGWC-27I
653853004	BRA-APBCD-FB-01
1205638452	Method Blank (MB)**ICP-MS**
1205638453	Laboratory Control Sample (LCS)
1205638456	653853001(BRA-BRGWC-29IL) Serial Dilution (SD)
1205638454	653853001(BRA-BRGWC-29IS) Matrix Spike (MS)
1205638455	653853001(BRA-BRGWC-29ISD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples 653853001 (BRA-BRGWC-29I), 653853002 (BRA-BRGWC-25I) and 653853003 (BRA-BRGWC-27I) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument.

Analyte	653853		
	001	002	003
Boron	10X	10X	10X

Calcium	10X	10X	10X
Manganese	10X	10X	10X

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**
Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 40
Analytical Batch: 2562322

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 40
Preparation Batch: 2562321

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
653853001	BRA-BRGWC-29I
653853002	BRA-BRGWC-25I
653853003	BRA-BRGWC-27I
653853004	BRA-APBCD-FB-01
1205638294	Method Blank (MB)**CVAA**
1205638295	Laboratory Control Sample (LCS)
1205638304	653746001(NonSDGL) Serial Dilution (SD)
1205638302	653746001(NonSDGD) Sample Duplicate (DUP)
1205638303	653746001(NonSDGS) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

General Chemistry

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 34
Analytical Batch: 2562344

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
653853001	BRA-BRGWC-29I
653853002	BRA-BRGWC-25I
653853003	BRA-BRGWC-27I
653853004	BRA-APBCD-FB-01
1205638341	Method Blank (MB)
1205638342	Laboratory Control Sample (LCS)
1205638343	653853001(BRA-BRGWC-29I) Sample Duplicate (DUP)
1205638344	653853001(BRA-BRGWC-29I) Post Spike (PS)

1205638345 653855010(BRA-PZ-70I) Sample Duplicate (DUP)
1205638346 653855010(BRA-PZ-70I) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Matrix Spike (MS)/Post Spike (PS) Recovery Statement
The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Chloride	1205638344 (BRA-BRGWC-29IPS)	116* (90%-110%)
	1205638346 (BRA-PZ-70IPS)	113* (90%-110%)
Sulfate	1205638346 (BRA-PZ-70IPS)	111* (90%-110%)

Technical Information

Sample Dilutions
The following samples 1205638343 (BRA-BRGWC-29IDUP), 1205638344 (BRA-BRGWC-29IPS), 1205638345 (BRA-PZ-70IDUP), 1205638346 (BRA-PZ-70IPS), 653853001 (BRA-BRGWC-29I), 653853002 (BRA-BRGWC-25I) and 653853003 (BRA-BRGWC-27I) were diluted because target analyte concentrations exceeded the calibration range. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	653853		
	001	002	003
Sulfate	50X	20X	20X

Miscellaneous Information

Manual Integrations
Samples 1205638345 (BRA-PZ-70IDUP), 653853002 (BRA-BRGWC-25I) and 653853003 (BRA-BRGWC-27I) were manually integrated to correctly position the baseline as set in the calibration standards.

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 21
Analytical Batch: 2564661

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
653853001	BRA-BRGWC-29I
653853002	BRA-BRGWC-25I
653853003	BRA-BRGWC-27I
653853004	BRA-APBCD-FB-01
1205642689	Method Blank (MB)
1205642690	Laboratory Control Sample (LCS)
1205642691	653855005(BRA-BRGWC-38S) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **Sulfide, Total**
Analytical Method: SM 4500-S (2-) D
Analytical Procedure: GL-GC-E-052 REV# 13
Analytical Batch: 2562451

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
653853001	BRA-BRGWC-29I
653853002	BRA-BRGWC-25I
653853003	BRA-BRGWC-27I
653853004	BRA-APBCD-FB-01
1205638593	Method Blank (MB)
1205638594	Laboratory Control Sample (LCS)
1205638595	653853001(BRA-BRGWC-29I) Post Spike (PS)
1205638596	653853001(BRA-BRGWC-29I) Post Spike Duplicate (PSD)
1205638597	653855010(BRA-PZ-70I) Post Spike (PS)
1205638598	653855010(BRA-PZ-70I) Post Spike Duplicate (PSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Matrix Spike (MS)/Post Spike (PS) Recovery Statement
The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value

Total Sulfide	1205638595 (BRA-BRGWC-29IPS)	69.9* (75%-125%)
	1205638596 (BRA-BRGWC-29IPSD)	69.1* (75%-125%)
	1205638597 (BRA-PZ-70IPS)	58.6* (75%-125%)
	1205638598 (BRA-PZ-70IPSD)	57.2* (75%-125%)

Product: **Alkalinity**
Analytical Method: SM 2320B
Analytical Procedure: GL-GC-E-033 REV# 16
Analytical Batch: 2562772

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
653853001	BRA-BRGWC-29I
653853002	BRA-BRGWC-25I
653853003	BRA-BRGWC-27I
653853004	BRA-APBCD-FB-01
1205639166	Laboratory Control Sample (LCS)
1205639167	Laboratory Control Sample (LCS)
1205639168	Laboratory Control Sample Duplicate (LCSD)
1205639169	Laboratory Control Sample Duplicate (LCSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Laboratory Control Sample Duplicate (LCSD)
An LCSD was used in place of matrix QC due to limited sample volume.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Technical Case Narrative
Georgia Power Company
SDG #: 653909

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2563145

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2563142

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
653909001	BRA-PZ-50D
653909002	BRA-APBCD-EB-05
653909003	BRA-BRGWC-50
653909004	BRA-APBCD-FB-03
653909005	BRA-BRGWC-45
653909006	BRA-PZ-58I
653909007	BRA-PZ-60I
653909008	BRA-PZ-61I
653909009	BRA-PZ-51I
653909010	BRA-APBCD-FD-03
653909011	BRA-PZ-51D
1205639783	Method Blank (MB)**ICP-MS**
1205639784	Laboratory Control Sample (LCS)
1205639787	653909001(BRA-PZ-50DL) Serial Dilution (SD)
1205639785	653909001(BRA-PZ-50DS) Matrix Spike (MS)
1205639786	653909001(BRA-PZ-50DSD) Matrix Spike Duplicate (MSD)
1205649431	653909001(BRA-PZ-50DPS) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Quality Control (QC) Information

Method Blank (MB) Statement
The samples in this SDG contained analytes at concentrations more than ten times the amount present in the method

blank, therefore the data was not adversely affected. 653909001 (BRA-PZ-50D), 653909003 (BRA-BRGWC-50), 653909005 (BRA-BRGWC-45), 653909006 (BRA-PZ-58I), 653909007 (BRA-PZ-60I), 653909008 (BRA-PZ-61I), 653909009 (BRA-PZ-51I), 653909010 (BRA-APBCD-FD-03) and 653909011 (BRA-PZ-51D). The samples in this SDG did not contain the above noted analytes at concentrations higher than the RDL, therefore the data was not adversely affected. 653909002 (BRA-APBCD-EB-05) and 653909004 (BRA-APBCD-FB-03). Manganese was high in the Method Blank.

Matrix Spike (MS/MSD) Recovery Statement
The percent recoveries (%R) obtained from the MS/MSD analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The MS/MSD (See Below) did not meet the recommended quality control acceptance criteria for percent recoveries for the following applicable analyte. The post spike recovery was within the required control limits. This verifies the absence of a matrix interference in the post-spike digested sample. The recovery may be attributed to possible sample matrix interference and/or non-homogeneity.

Sample	Analyte	Value
1205639785 (BRA-PZ-50DMS)	Boron	58.6* (75%-125%)

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples 653909001 (BRA-PZ-50D), 653909003 (BRA-BRGWC-50), 653909006 (BRA-PZ-58I), 653909007 (BRA-PZ-60I), 653909008 (BRA-PZ-61I), 653909009 (BRA-PZ-51I), 653909010 (BRA-APBCD-FD-03) and 653909011 (BRA-PZ-51D) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument.

Analyte	653909							
	001	003	006	007	008	009	010	011
Boron	10X	5X	5X	5X	5X	5X	10X	1X
Calcium	10X	5X	5X	500X	5X	5X	10X	10X
Cobalt	1X	5X	1X	5X	1X	1X	10X	1X
Iron	1X	1X	100X	1X	1X	1X	1X	1X
Magnesium	10X	5X	5X	5X	5X	5X	10X	1X
Manganese	10X	100X	100X	500X	500X	500X	1000X	10X
Sodium	1X	1X	1X	5X	5X	1X	10X	1X

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2563148

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2563146

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
653909012	BRA-APBCD-EB-04

653909013	BRA-BRGWC-52I
653909014	BRA-PZ-63I
653909015	BRA-PZ-64I
653909016	BRA-APBCD-FD-02
653909017	BRA-APBCD-FB-02
653909018	BRA-PZ-74I
653909019	BRA-APBCD-EB-06
653909020	BRA-PZ-68D
653909021	BRA-PZ-75I
1205639790	Method Blank (MB)**ICP-MS**
1205639791	Laboratory Control Sample (LCS)
1205639794	653909013(BRA-BRGWC-52IL) Serial Dilution (SD)
1205639792	653909013(BRA-BRGWC-52IS) Matrix Spike (MS)
1205639793	653909013(BRA-BRGWC-52ISD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples 653909013 (BRA-BRGWC-52I), 653909014 (BRA-PZ-63I), 653909015 (BRA-PZ-64I), 653909016 (BRA-APBCD-FD-02), 653909018 (BRA-PZ-74I), 653909020 (BRA-PZ-68D) and 653909021 (BRA-PZ-75I) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument.

Analyte	653909						
	013	**014**	**015**	**016**	**018**	**020**	**021**
Boron	10X	10X	1X	10X	10X	5X	10X
Calcium	1X	10X	10X	1X	10X	5X	10X
Cobalt	1X	1X	10X	1X	1X	1X	1X
Magnesium	1X	1X	10X	1X	1X	1X	1X
Manganese	1X	10X	1000X	1X	1X	1X	1X
Sodium	1X	1X	10X	1X	1X	1X	1X

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**
Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 40
Analytical Batch: 2563281

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 40
Preparation Batch: 2563279

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
653909001	BRA-PZ-50D
653909002	BRA-APBCD-EB-05
653909003	BRA-BRGWC-50
653909004	BRA-APBCD-FB-03
653909005	BRA-BRGWC-45
653909006	BRA-PZ-58I
653909007	BRA-PZ-60I
653909008	BRA-PZ-61I
1205640115	Method Blank (MB)**CVAA**
1205640116	Laboratory Control Sample (LCS)
1205640119	653892003(NonSDGL) Serial Dilution (SD)
1205640117	653892003(NonSDGD) Sample Duplicate (DUP)
1205640118	653892003(NonSDGS) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**
Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 40
Analytical Batch: 2563285

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 40
Preparation Batch: 2563284

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
653909009	BRA-PZ-51I
653909010	BRA-APBCD-FD-03
653909011	BRA-PZ-51D
653909012	BRA-APBCD-EB-04
653909013	BRA-BRGWC-52I
653909014	BRA-PZ-63I
653909015	BRA-PZ-64I
653909016	BRA-APBCD-FD-02
653909017	BRA-APBCD-FB-02
653909018	BRA-PZ-74I
653909019	BRA-APBCD-EB-06
653909020	BRA-PZ-68D

653909021	BRA-PZ-75I
1205640127	Method Blank (MB)**CVAA**
1205640128	Laboratory Control Sample (LCS)
1205640131	653922001(NonSDGL) Serial Dilution (SD)
1205640129	653922001(NonSDGD) Sample Duplicate (DUP)
1205640130	653922001(NonSDGS) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

General Chemistry

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 34
Analytical Batch: 2562947

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
653909001	BRA-PZ-50D
653909002	BRA-APBCD-EB-05
653909003	BRA-BRGWC-50
653909004	BRA-APBCD-FB-03
653909005	BRA-BRGWC-45
653909006	BRA-PZ-58I
653909007	BRA-PZ-60I
653909008	BRA-PZ-61I
653909009	BRA-PZ-51I
653909010	BRA-APBCD-FD-03
653909011	BRA-PZ-51D
1205639510	Method Blank (MB)
1205639511	Laboratory Control Sample (LCS)
1205639512	653909001(BRA-PZ-50D) Sample Duplicate (DUP)
1205639513	653909001(BRA-PZ-50D) Post Spike (PS)
1205639514	653909011(BRA-PZ-51D) Sample Duplicate (DUP)
1205639515	653909011(BRA-PZ-51D) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Matrix Spike (MS)/Post Spike (PS) Recovery Statement
The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less

than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Chloride	1205639513 (BRA-PZ-50DPS)	112* (90%-110%)
Nitrate-N	1205639513 (BRA-PZ-50DPS)	116* (90%-110%)

Technical Information

Holding Times
Samples (See Below) were initially analyzed within holding; however, the holding times had expired prior to reanalysis of samples. The data is qualified.

Sample	Analyte	Value
1205639512 (BRA-PZ-50DDUP)	Nitrate-N	Received 02-FEB-24, within holding, analyzed 09-FEB-24, out of holding 03-FEB-24
1205639513 (BRA-PZ-50DPS)	Nitrate-N	Received 02-FEB-24, within holding, analyzed 09-FEB-24, out of holding 03-FEB-24
653909001 (BRA-PZ-50D)	Nitrate-N	Received 02-FEB-24, within holding, analyzed 09-FEB-24, out of holding 03-FEB-24

Sample Dilutions
The following samples 1205639512 (BRA-PZ-50DDUP), 1205639513 (BRA-PZ-50DPS), 1205639514 (BRA-PZ-51DDUP), 1205639515 (BRA-PZ-51DPS), 653909001 (BRA-PZ-50D), 653909003 (BRA-BRGWC-50), 653909005 (BRA-BRGWC-45), 653909006 (BRA-PZ-58I), 653909007 (BRA-PZ-60I), 653909008 (BRA-PZ-61I), 653909009 (BRA-PZ-51I), 653909010 (BRA-APBCD-FD-03) and 653909011 (BRA-PZ-51D) were diluted because target analyte concentrations exceeded the calibration range. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	653909								
	001	003	005	006	007	008	009	010	011
Chloride	2X	2X	10X	2X	10X	5X	2X	5X	40X
Nitrate-N	2X	1X	1X	1X	1X	1X	1X	1X	1X
Sulfate	100X	200X	10X	100X	200X	200X	100X	200X	40X

Product: Ion Chromatography
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 34
Analytical Batch: 2562950

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
653909012	BRA-APBCD-EB-04
653909013	BRA-BRGWC-52I
653909014	BRA-PZ-63I
653909015	BRA-PZ-64I
653909016	BRA-APBCD-FD-02

653909017	BRA-APBCD-FB-02
653909018	BRA-PZ-74I
653909019	BRA-APBCD-EB-06
653909020	BRA-PZ-68D
653909021	BRA-PZ-75I
1205639516	Method Blank (MB)
1205639517	Laboratory Control Sample (LCS)
1205639518	653909013(BRA-BRGWC-52I) Sample Duplicate (DUP)
1205639519	653909013(BRA-BRGWC-52I) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Matrix Spike (MS)/Post Spike (PS) Recovery Statement
The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Chloride	1205639519 (BRA-BRGWC-52IPS)	115* (90%-110%)

Technical Information

Sample Dilutions
The following samples 1205639518 (BRA-BRGWC-52IDUP), 1205639519 (BRA-BRGWC-52IPS), 653909013 (BRA-BRGWC-52I), 653909014 (BRA-PZ-63I), 653909015 (BRA-PZ-64I), 653909016 (BRA-APBCD-FD-02), 653909018 (BRA-PZ-74I), 653909020 (BRA-PZ-68D) and 653909021 (BRA-PZ-75I) were diluted because target analyte concentrations exceeded the calibration range. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	653909						
	013	014	015	016	018	020	021
Chloride	1X	1X	10X	1X	25X	25X	1X
Sulfate	20X	40X	1000X	20X	25X	25X	40X

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 21
Analytical Batch: 2565277

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
653909001	BRA-PZ-50D

653909002	BRA-APBCD-EB-05
653909003	BRA-BRGWC-50
653909004	BRA-APBCD-FB-03
653909005	BRA-BRGWC-45
653909006	BRA-PZ-58I
653909007	BRA-PZ-60I
653909008	BRA-PZ-61I
653909009	BRA-PZ-51I
653909010	BRA-APBCD-FD-03
653909011	BRA-PZ-51D
653909012	BRA-APBCD-EB-04
653909013	BRA-BRGWC-52I
653909014	BRA-PZ-63I
653909015	BRA-PZ-64I
653909016	BRA-APBCD-FD-02
653909017	BRA-APBCD-FB-02
653909018	BRA-PZ-74I
653909019	BRA-APBCD-EB-06
653909020	BRA-PZ-68D
1205643757	Method Blank (MB)
1205643758	Laboratory Control Sample (LCS)
1205643759	653909001(BRA-PZ-50D) Sample Duplicate (DUP)
1205643760	653909015(BRA-PZ-64I) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Duplicate Relative Percent Difference (RPD) Statement
The Relative Percent Difference (RPD) between the sample and duplicate falls outside of the established acceptance limits because of the heterogeneous matrix of the sample:

Analyte	Sample	Value
Total Dissolved Solids	1205643760 (BRA-PZ-64IDUP)	12.5* (0%-5%)

Miscellaneous Information

Additional Comments
A reduced aliquot was used due to matrix interference. 1205643759 (BRA-PZ-50DDUP), 1205643760 (BRA-PZ-64IDUP), 653909001 (BRA-PZ-50D), 653909003 (BRA-BRGWC-50), 653909006 (BRA-PZ-58I), 653909007 (BRA-PZ-60I), 653909008 (BRA-PZ-61I), 653909009 (BRA-PZ-51I), 653909010 (BRA-APBCD-FD-03) and 653909015 (BRA-PZ-64I). A TDS meter was used to check the samples for interference prior to analysis. 1205643759 (BRA-PZ-50DDUP), 1205643760 (BRA-PZ-64IDUP), 653909001 (BRA-PZ-50D), 653909003 (BRA-BRGWC-50), 653909006 (BRA-PZ-58I), 653909007 (BRA-PZ-60I), 653909008 (BRA-PZ-61I), 653909009 (BRA-PZ-51I), 653909010 (BRA-APBCD-FD-03) and 653909015 (BRA-PZ-64I).

Product: **Solids, Total Dissolved**

Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 21
Analytical Batch: 2565278

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
653909021	BRA-PZ-75I
1205643761	Method Blank (MB)
1205643762	Laboratory Control Sample (LCS)
1205643765	654364002(NonSDG) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Duplicate Relative Percent Difference (RPD) Statement
The Relative Percent Difference (RPD) between the sample and duplicate falls outside of the established acceptance limits because of the heterogeneous matrix of the sample: 1205643765 (Non SDG 654364002DUP).

Product: **Sulfide, Total**
Analytical Method: SM 4500-S (2-) D
Analytical Procedure: GL-GC-E-052 REV# 13
Analytical Batch: 2562850

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
653909001	BRA-PZ-50D
653909002	BRA-APBCD-EB-05
653909003	BRA-BRGWC-50
653909004	BRA-APBCD-FB-03
1205639328	Method Blank (MB)
1205639329	Laboratory Control Sample (LCS)
1205639330	653686004(NonSDG) Post Spike (PS)
1205639331	653686004(NonSDG) Post Spike Duplicate (PSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **Sulfide, Total**
Analytical Method: SM 4500-S (2-) D
Analytical Procedure: GL-GC-E-052 REV# 13

Analytical Batch: 2562851

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
653909005	BRA-BRGWC-45
653909006	BRA-PZ-58I
653909007	BRA-PZ-60I
653909008	BRA-PZ-61I
653909009	BRA-PZ-51I
653909010	BRA-APBCD-FD-03
653909011	BRA-PZ-51D
653909012	BRA-APBCD-EB-04
653909013	BRA-BRGWC-52I
653909014	BRA-PZ-63I
653909015	BRA-PZ-64I
653909016	BRA-APBCD-FD-02
653909017	BRA-APBCD-FB-02
653909018	BRA-PZ-74I
653909019	BRA-APBCD-EB-06
653909020	BRA-PZ-68D
653909021	BRA-PZ-75I
1205639332	Method Blank (MB)
1205639333	Laboratory Control Sample (LCS)
1205639334	653909005(BRA-BRGWC-45) Post Spike (PS)
1205639335	653909005(BRA-BRGWC-45) Post Spike Duplicate (PSD)
1205639336	653909020(BRA-PZ-68D) Post Spike (PS)
1205639337	653909020(BRA-PZ-68D) Post Spike Duplicate (PSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Matrix Spike (MS)/Post Spike (PS) Recovery Statement
The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Total Sulfide	1205639334 (BRA-BRGWC-45PS)	37.6* (75%-125%)
	1205639335 (BRA-BRGWC-45PSD)	36.6* (75%-125%)

Product: **Alkalinity**
Analytical Method: SM 2320B
Analytical Procedure: GL-GC-E-033 REV# 16
Analytical Batch: 2562852

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
653909001	BRA-PZ-50D
653909002	BRA-APBCD-EB-05
653909003	BRA-BRGWC-50
653909004	BRA-APBCD-FB-03
653909005	BRA-BRGWC-45
653909006	BRA-PZ-58I
653909007	BRA-PZ-60I
653909008	BRA-PZ-61I
653909009	BRA-PZ-51I
653909010	BRA-APBCD-FD-03
1205639340	Laboratory Control Sample (LCS)
1205639341	Laboratory Control Sample (LCS)
1205639342	Laboratory Control Sample Duplicate (LCSD)
1205639343	Laboratory Control Sample Duplicate (LCSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Laboratory Control Sample Duplicate (LCSD)
An LCSD was used in place of matrix QC due to limited sample volume.

Product: **Alkalinity**
Analytical Method: SM 2320B
Analytical Procedure: GL-GC-E-033 REV# 16
Analytical Batch: 2562854

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
653909011	BRA-PZ-51D
653909012	BRA-APBCD-EB-04
653909013	BRA-BRGWC-52I
653909014	BRA-PZ-63I
653909015	BRA-PZ-64I
653909016	BRA-APBCD-FD-02
653909017	BRA-APBCD-FB-02
653909018	BRA-PZ-74I
653909019	BRA-APBCD-EB-06
653909020	BRA-PZ-68D
653909021	BRA-PZ-75I
1205639344	Laboratory Control Sample (LCS)
1205639345	Laboratory Control Sample (LCS)
1205639346	Laboratory Control Sample Duplicate (LCSD)
1205639347	Laboratory Control Sample Duplicate (LCSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Laboratory Control Sample Duplicate (LCSD)
An LCSD was used in place of matrix QC due to limited sample volume.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Technical Case Narrative
Georgia Power Company
SDG #: 653582

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2561630

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 14
Preparation Batch: 2561629

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
653582001	BRA-BRGWC-32S
653582002	BRA-BRGWC-47
653582003	BRA-PZ-44
653582004	BRA-BRGWA-23S
653582005	BRA-BRGWC-30I
653582006	BRA-APBCD-FD-01
1205637183	Method Blank (MB)**ICP-MS**
1205637184	Laboratory Control Sample (LCS)
1205637187	653570001(BRA-BRGWA-2SL) Serial Dilution (SD)
1205637185	653570001(BRA-BRGWA-2SS) Matrix Spike (MS)
1205637186	653570001(BRA-BRGWA-2SSD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

CRDL/PQL Requirements
The CRDL standard recoveries for SW846 6020B met the advisory control limits with the exception of the calcium. Client sample concentrations were less than the MDL or greater than two times the CRDL; therefore the data were not adversely affected.

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples 653582001 (BRA-BRGWC-32S), 653582002

(BRA-BRGWC-47), 653582003 (BRA-PZ-44), 653582005 (BRA-BRGWC-30I) and 653582006 (BRA-APBCD-FD-01) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument.

Analyte	653582				
	001	**002**	**003**	**005**	**006**
Boron	10X	10X	10X	20X	10X
Calcium	1X	10X	1X	20X	1X
Magnesium	1X	10X	1X	20X	1X
Manganese	1X	1X	1X	20X	1X

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**
Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 40
Analytical Batch: 2561614

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 40
Preparation Batch: 2561613

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
653582001	BRA-BRGWC-32S
653582002	BRA-BRGWC-47
653582003	BRA-PZ-44
653582004	BRA-BRGWA-23S
653582005	BRA-BRGWC-30I
653582006	BRA-APBCD-FD-01
1205637171	Method Blank (MB)**CVAA**
1205637172	Laboratory Control Sample (LCS)
1205637178	653616001(NonSDGL) Serial Dilution (SD)
1205637176	653616001(NonSDGD) Sample Duplicate (DUP)
1205637177	653616001(NonSDGS) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

General Chemistry

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 34
Analytical Batch: 2561599

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
653582001	BRA-BRGWC-32S
653582002	BRA-BRGWC-47
653582003	BRA-PZ-44
653582004	BRA-BRGWA-23S
653582005	BRA-BRGWC-30I
653582006	BRA-APBCD-FD-01
1205637120	Method Blank (MB)
1205637121	Laboratory Control Sample (LCS)
1205637122	653570001(BRA-BRGWA-2S) Sample Duplicate (DUP)
1205637123	653570001(BRA-BRGWA-2S) Post Spike (PS)
1205637124	653582003(BRA-PZ-44) Sample Duplicate (DUP)
1205637125	653582003(BRA-PZ-44) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Matrix Spike (MS)/Post Spike (PS) Recovery Statement
The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Chloride	1205637125 (BRA-PZ-44PS)	115* (90%-110%)

Technical Information

Sample Dilutions
The following samples 1205637124 (BRA-PZ-44DUP), 1205637125 (BRA-PZ-44PS), 653582001 (BRA-BRGWC-32S), 653582002 (BRA-BRGWC-47), 653582003 (BRA-PZ-44), 653582005 (BRA-BRGWC-30I) and 653582006 (BRA-APBCD-FD-01) were diluted because target analyte concentrations exceeded the calibration range. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	653582				
	001	002	003	005	006
Sulfate	20X	100X	5X	100X	5X

Sample Re-analysis
Sample 1205637125 (BRA-PZ-44PS) was reanalyzed due to PS failure. The reanalysis data was reported. Samples 653582005 (BRA-BRGWC-30I) and 653582006 (BRA-APBCD-FD-01) were re-analyzed due to CCV failure. The reanalysis data with passing instrument QC was reported.

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 21
Analytical Batch: 2563910

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
653582001	BRA-BRGWC-32S
653582002	BRA-BRGWC-47
653582003	BRA-PZ-44
653582004	BRA-BRGWA-23S
653582005	BRA-BRGWC-30I
653582006	BRA-APBCD-FD-01
1205641437	Method Blank (MB)
1205641438	Laboratory Control Sample (LCS)
1205641440	653575002(BRA-BRGWC-35S) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments
A reduced aliquot was used due to matrix interference. 653582002 (BRA-BRGWC-47) and 653582005 (BRA-BRGWC-30I). A TDS meter was used to check the samples for interference prior to analysis. 653582002 (BRA-BRGWC-47) and 653582005 (BRA-BRGWC-30I).

Product: **Sulfide, Total**
Analytical Method: SM 4500-S (2-) D
Analytical Procedure: GL-GC-E-052 REV# 13
Analytical Batch: 2561631

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
653582001	BRA-BRGWC-32S
653582002	BRA-BRGWC-47
653582003	BRA-PZ-44
653582004	BRA-BRGWA-23S
653582005	BRA-BRGWC-30I
653582006	BRA-APBCD-FD-01
1205637188	Method Blank (MB)
1205637189	Laboratory Control Sample (LCS)
1205637190	653570001(BRA-BRGWA-2S) Post Spike (PS)
1205637191	653570001(BRA-BRGWA-2S) Post Spike Duplicate (PSD)
1205637192	653582003(BRA-PZ-44) Post Spike (PS)
1205637193	653582003(BRA-PZ-44) Post Spike Duplicate (PSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Matrix Spike (MS)/Post Spike (PS) Recovery Statement
The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Total Sulfide	1205637192 (BRA-PZ-44PS)	73.5* (75%-125%)
	1205637193 (BRA-PZ-44PSD)	72.2* (75%-125%)

Product: **Alkalinity**
Analytical Method: SM 2320B
Analytical Procedure: GL-GC-E-033 REV# 16
Analytical Batch: 2561936

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
653582001	BRA-BRGWC-32S
653582002	BRA-BRGWC-47
653582003	BRA-PZ-44
653582004	BRA-BRGWA-23S
653582005	BRA-BRGWC-30I
653582006	BRA-APBCD-FD-01
1205637749	Laboratory Control Sample (LCS)
1205637750	Laboratory Control Sample (LCS)
1205637751	Laboratory Control Sample Duplicate (LCSD)
1205637752	Laboratory Control Sample Duplicate (LCSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Laboratory Control Sample Duplicate (LCSD)
An LCSD was used in place of matrix QC due to limited sample volume.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Page: ___ of ___
Project #
GEL Quote #
COC Number (1)
PO Number: GPC82177-0006

GEL Laboratories LLC 663853/663854
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-817
Fax: (843) 766-1178

Client Name: GA Power | Phone # 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - BCD | Fax #
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: J. Powell // Acid ACC | Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (Hours)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply sample info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS, NOS EPA 300, SM 4500	Total Calc. & Hard: Alk SM 2320	Metals * EPA 6020, 6010, 7470	NI	Radium 226 & 228 SW 846 9315, 9320	NI	Sulfide SM 4500	<-- Preservative Type (6)
BRA-BRGWC-29I	01/31/24	1040	G	N	WG			8	✓	✓	✓	✓	✓	✓		
BRA-BRGWC-25I	01/31/24	1437	G	N	WG			8	✓	✓	✓	✓	✓	✓		
BRA-BRGWC-27I	01/31/24	1540	G	N	WG			8	✓	✓	✓	✓	✓	✓		
BRA-APPCD-FB-01	01/31/24	1425	G	N	WQ			8	✓	✓	✓	✓	✓	✓		
BRA-																
BRA-																
BRA-																
BRA-																
BRA-																
BRA-																

Comments
Note: extra sample is required for sample specific QC
Task_Code: BRA-CCR-ASSMT-2024S1

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	2/1/24	0736	1	2/1/24	0736
2	2/1/24	100	2	2/1/24	1300
3			3		

TAT Requested: Normal: X Rush: ___ Specify: ___ (Subject to Surcharge)
Fax Results: [ ] Yes [x] No
Select Deliverable: [ ] C of A [ ] QC Summary [ ] Level 1 [x] Level 2 [ ] Level 3 [ ] Level 4
Additional Parameters: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg
For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No Cooler Temp: ___ °C
> For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)
Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other

(1) Chain of Custody Number = Client Determined
(2) QC Codes: N = Normal Sample, TB = Trip Blank, FB = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite
(3) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was Field Filtered or - N - for sample was not field filtered.
(4) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix
(5) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 4/40ml - 3, 6010B/7470A - 1)
(6) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

(7) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic, Hg= Mercury, Ba = Barium, Se= Selenium, Cd = Cadmium, Ag= Silver, Cr = Chromium, MR= Misc. RCRA metals, Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal constraints. (i.e.: Origin of sample/id, type of site collected from, solid matrices, etc.)

653855
653856
653853 ET
653857

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC — SDG/ARC/COC/Work Order:

Received By: CLM — Date Received: 2/1/24

Carrier and Tracking Number — Client Applicable: FedEx Express FedEx Ground UPS Field Services Courier (Other)

Coolers 1-0° 3-1° 5-0°
2-0° 4-0° 6-1°

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "suspected rad", contact the Radiation Safety Group for further investigation.
A) Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 (CPM) (mR/Hr) Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

Sample Receipt Criteria		Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)*	✓			Preservation Method: Wet Ice Ice Packs Dry Ice None Other *All temperatures are recorded in Celsius TEMP: See above with Coolers
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR8-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___ (If yes, refer to VOA Freeze) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___ (If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No date(s) on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials WS Date 02/02/24 Page 1 of 1

GL-CHL-SR-001, Rev 7

653909
653911

Page: ___ of ___
Project #
GEL Quote #
COC Number (1)
PO Number: GPC22177-0006

GEL Laboratories LLC
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power | Phone #: 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - BCD | Fax #:
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: JOHNATHAN ACC | Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS, NO3 EPA 300, SM 2540C	Total Carb & Bicarb Alk SM 2320B	N1 Metals * EPA 6020, 6010, 7470	N1 Radium 226 & 228 SW-846 9315, 9320	Sulfide SM 4500	← Preservative Type (6)
BRA-PZ-50D	02/01/24	1015	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-APBCD-EB-05	02/01/24	1130	G	N	WQ			8	✓	✓	✓	✓	✓	
BRA-BRGWC-50	02/01/24	1200	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-APBCD-FB-03	02/01/24	1330	G	N	WQ			8	✓	✓	✓	✓	✓	
BRA-BRGWC-45	02/01/24	1350	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-PZ-58I	02/01/24	1012	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-PZ-60I	02/01/24	1313	G	N	WG			2	✓	✓	✓	✓	✓	
BRA-PZ-61I	02/01/24	1133	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-PZ-51I	02/01/24	1349	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-APBCD-FD-03	02/01/24	—	G	N	WG			8	✓	✓	✓	✓	✓	

Comments
Note: extra sample is required for sample specific QC
Task_Code: BRA-CCR-ASSMT-202451

Chain of Custody Signatures

Relinquished by (Signed)	Date	Time	Received by (signed)	Date	Time
1 ACC	2/2/24	0840	1 Thermo Tech	2/2/24	940
2			2		
3			3		

TAT Requested: Normal: X Rush: ___ Specify: ___ (Subject to Surcharge)

Fax Results: [ ] Yes [X] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] Level 1 [X] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg

For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No Cooler Temp: ___ °C

Sample Collection Time Zone: [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR).*

1.) Chain of Custody Number = Client Determined

2.) QC Codes: N = Normal Sample, TB = Trip Blank, FB = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.

4.) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix

5.) Sample Analysis Requested - Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).

6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic, Ba = Barium, Cd = Cadmium, Cr = Chromium, Pb = Lead, Hg = Mercury, Se = Selenium, Ag = Silver, MR = Misc. RCRA metals

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW = Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT = Other / Unknown
(i.e.: Highlow pH, asbestos, beryllium, arsenic, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

653909
653911

Page: ____ of ____
Project #: ____
GEL Quote #: ____
COC Number (1): ____
PO Number: GPC\2177-0006

GEL Laboratories LLC
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power | Phone #: 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - BCD | Fax #:
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: CBM/JTG 02/01 ACC | Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (*For composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (Hours)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Hydrocarbon (yes, please supply concentration)	Should this sample be considered: (*) Known or possible Hazards	Total number of containers	Cl-, F, SO4, TDS, NO3 EPA 300, SM 2540C	Total, Ca+K & Hardness As CaCO3	NI	NI								<-- Preservative Type (6)
BRA-PZ-51D	02/01/24	1011	G	N	WG			3	✓	✓	✓	✓	✓							
BRA-APBCD-FB-04	02/01/24	1010	G	N	WQ			3	✓	✓	✓	✓	✓							
BRA-BRGWC-52I	02/01/24	1015	G	N	WG			3	✓	✓	✓	✓	✓							
BRA-PZ-63I	02/01/24	1410	G	N	WG			3	✓	✓	✓	✓	✓							
BRA-PZ-64I	02/01/24	1200	G	N	WG			3	✓	✓	✓	✓	✓							
BRA-APBCD-FD-02	02/01/24	—	G	N	WG			3	✓	✓	✓	✓	✓							
BRA-APBCD-FB-02	02/01/24	1115	G	N	WQ			3	✓	✓	✓	✓	✓							
BRA-PZ-74I	02/01/24	1200	G	N	WG			3	✓	✓	✓	✓	✓							
BRA-APBCD-EB-06	02/01/24	1305	G	N	WQ			3	✓	✓	✓	✓	✓							
BRA-PZ-62D	02/01/24	0945	G	N	WG			3	✓	✓	✓	✓	✓							

Comments
Note: extra sample is required for sample specific QC
Task Code: BRA-CCR-ASSMT-202451

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	2/2/24	0840	1	2/2/24	840
2			2		
3			3		

TAT Requested: Normal: X Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [x] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] Level 1 [x] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg

For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No Cooler Temp: ____ °C

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR).*

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other

(1) Chain of Custody Number = Client Determined

(2) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

(3) Field Filtered: For liquid matrices, indicate with a « Y » for yes the sample was field filtered or « N » for sample was not field filtered.

(4) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix

(5) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B = 3, 6010B/7470A = 1)

(6) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

(7) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic; Hg= Mercury
Ba = Barium; Se= Selenium
Cd = Cadmium; Ag= Silver
Cr = Chromium; MR= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, pyrophoric, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

663909

653911

GEL Laboratories LLC

Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Laboratories
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Page: ____ of ____
Project #:
GEL Quote #:
COC Number [1]:
PO Number: GPC82177-0006

GEL Work Order Number:

GEL Project Manager: Erin Trent

Client Name: GA Power
Phone # 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - 3CD
Fax #
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: SB / HA/TL/AS/MCC
Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested [3] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and end date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (C) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS, NO3 EPA 300.0	Total Carb, Bicarb Alk SM 2320B	Metals * EPA 6020, 6010, 7470	Sulfide 376.2, 9215, 9030	Sulfide SM 4500	[4]-- Preservative Type (#)	Comments
BRA- PZ-757	12/11/24	1412	G	N	WG			8	✓	✓	✓	✓	✓		Note: extra sample is required for sample specific QC Task_Code: BRA-CCR-ASSMT-2024S1
BRA-															
BRA-															
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BRA-															
BRA-															

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	12/12/24	0840	1	12/12/24	0840
2			2		
3			3		

TAT Requested: Normal: X Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [X] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] Level 1 [X] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mn,S,Tl,Fe,Mg,Mo,K,Na,Hg

For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No Cooler Temp: ____ °C

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR).*

Sample Collection Time Zone: [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

3.) Field Filtered: For liquid matrixes, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.

4.) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).

6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank.

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic; Hg= Mercury
Ba = Barium; Se= Selenium
Cd = Cadmium; Ag= Silver
Cr = Chromium; MR= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.- High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.- Origin of sample(s), type of site collected from, add matrixes, etc.)

653909

653911

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	SDG/AR/COC/Work Order:
Received By: QG	Date Received: 2/2/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other
	n/a

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A) Shipped as a DOT Hazardous?			Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?			COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?			Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM/mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?			COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?			If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?				Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?				Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*				Preservation Method: Wet Ice Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: 2°C
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR1-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?				Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?				Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?				If Yes, are Encore or Soil Kits present for solids? Yes___ No___ NA___ (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___ (If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?				ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?				ID's and containers affected:
10	Date & time on COC match date & time on bottles?				Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?				Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?				
13	COC form is properly signed in relinquished/received sections?				Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials WJ Date 02/05/24 Page 1 of 1

653582/653584

Page: ___ of ___
Project #
GEL Quote #:
COC Number (1):
PO Number: GPC82177-0006

GEL Laboratories LLC
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytes
Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power | Phone # 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - BCD | Fax #
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: S.Brown, H.A.Acc | Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested (2) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Hazardous (1) (or, please specify outside hold)	Should this sample be considered: (1) Unknown or possible Hazards	Total number of containers	(Ca, K, Mg, Na, TDS, NO3) EPA 300; SM 2340C	Total Calc. & Dissolved Alk. SM 2320B	Metals* EPA 6020, 7470, 7000	Radium 226 & 228 SW-846 9315, 9320	Sulfide SM 4500	N1	N1	<--Preservative Type (6)
BRA-BRGWC-325	01/30/24	1255	G	N	WG			8	✓	✓	✓	✓	✓			
BRA-BRGWC-47	01/30/24	1456	G	N	WG			8	✓	✓	✓	✓	✓			
BRA-PZ-44	01/30/24	1620	G	N	WG			8	✓	✓	✓	✓	✓			
BRA-BRGWA-235	01/30/24	1238	G	N	WG			7	✓	✓	✓	✓	✓			
BRA-BRGWC-301	01/30/24	1734	G	N	WG			8	✓	✓	✓	✓	✓			
BRA-APBCD-FD-01	01/30/24	~	G	N	WG			8	✓	✓	✓	✓	✓			
BRA-																
BRA-																
BRA-																
BRA-																

Comments
Note: extra sample is required for sample specific QC
Task_Code: BRA-CCR-ASSMT-202451

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1		1/31/24	0900	1	1/31/24	8:20
2		1/31/24	104	2	1/31/24	1306
3				3		

TAT Requested: Normal: X Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [x] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] Level 1 [x] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg

For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No Cooler Temp: 1 °C

> For sample shipping and delivery details, see Sample Receipt & Review form (SRR)

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other

(1) Chain of Custody Number = Client Determined

(2) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

(3) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not Field Filtered

(4) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix

(5) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1)

(6) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

(1) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic, Ba = Barium, Cd = Cadmium, Cr = Chromium, Pb = Lead, Hg = Mercury, Se = Selenium, Ag = Silver, MR = Misc. RCRA metals

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW = Listed Waste (F,K,P and U-listed wastes.)
Waste code(s):

Other
OT = Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, uranium, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, solid matrices, etc.)

653570 653584
653572 653575
653582 653580

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	SDG/AR/COC/Work Order:
Received By: QG	Date Received: 1/31/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other
	N/a

Suspected Hazard Information	Yes	No	
			*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A) Shipped as a DOT Hazardous?			Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?			COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?			Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM/mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?			COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?			If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

Sample Receipt Criteria		Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?				Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?				Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)*				Preservation Method: Wet Ice Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: 7.6
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR1-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?				Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?				Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?				If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?				ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?				ID's and containers affected:
10	Date & time on COC match date & time on bottles?				Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?				Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?				
13	COC form is properly signed in relinquished/received sections?				Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials WJ Date 01/02/24 Page 1 of 1

List of current GEL Certifications as of 16 February 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122024-05
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-23-21
Utah NELAP	SC000122023-38
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC
2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

February 29, 2024

Joju Abraham
Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308

Re: Branch CCR Groundwater Compliance APBCD-R
Work Orders: 653911,653854 and 653584

Dear Joju Abraham:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on January 31, 2024, February 01, 2024 and February 02, 2024. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Recieved
653584001	BRA-BRGWC-32S	Ground Water	30/01/24 12:55	31/01/24 13:06
653584002	BRA-BRGWC-47	Ground Water	30/01/24 14:56	31/01/24 13:06
653584003	BRA-PZ-44	Ground Water	30/01/24 16:20	31/01/24 13:06
653584004	BRA-BRGWA-23S	Ground Water	30/01/24 12:38	31/01/24 13:06
653584005	BRA-BRGWC-30I	Ground Water	30/01/24 17:34	31/01/24 13:06
653584006	BRA-APBCD-FD-01	Ground Water	30/01/24 12:00	31/01/24 13:06
653854001	BRA-BRGWC-29I	Ground Water	31/01/24 10:40	01/02/24 13:00
653854002	BRA-BRGWC-25I	Ground Water	31/01/24 14:37	01/02/24 13:00
653854003	BRA-BRGWC-27I	Ground Water	31/01/24 15:40	01/02/24 13:00
653854004	BRA-APBCD-FB-01	Water	31/01/24 14:25	01/02/24 13:00
653911001	BRA-PZ-50D	Ground Water	01/02/24 10:15	02/02/24 08:40
653911002	BRA-APBCD-EB-05	Water	01/02/24 11:30	02/02/24 08:40
653911003	BRA-BRGWC-50	Ground Water	01/02/24 12:00	02/02/24 08:40
653911004	BRA-APBCD-FB-03	Water	01/02/24 13:30	02/02/24 08:40
653911005	BRA-BRGWC-45	Ground Water	01/02/24 13:50	02/02/24 08:40
653911006	BRA-PZ-58I	Ground Water	01/02/24 10:12	02/02/24 08:40

653911007	BRA-PZ-60I	Ground Water	01/02/24 13:13	02/02/24 08:40
653911008	BRA-PZ-61I	Ground Water	01/02/24 11:33	02/02/24 08:40
653911009	BRA-PZ-51I	Ground Water	01/02/24 13:49	02/02/24 08:40
653911010	BRA-APBCD-FD-03	Ground Water	01/02/24 12:00	02/02/24 08:40
653911011	BRA-PZ-51D	Ground Water	01/02/24 10:11	02/02/24 08:40
653911012	BRA-APBCD-EB-04	Water	01/02/24 10:10	02/02/24 08:40
653911013	BRA-BRGWC-52I	Ground Water	01/02/24 10:15	02/02/24 08:40
653911014	BRA-PZ-63I	Ground Water	01/02/24 14:10	02/02/24 08:40
653911015	BRA-PZ-64I	Ground Water	01/02/24 12:00	02/02/24 08:40
653911016	BRA-APBCD-FD-02	Ground Water	01/02/24 12:00	02/02/24 08:40
653911017	BRA-APBCD-FB-02	Water	01/02/24 11:15	02/02/24 08:40
653911018	BRA-PZ-74I	Ground Water	01/02/24 12:00	02/02/24 08:40
653911019	BRA-APBCD-EB-06	Water	01/02/24 13:05	02/02/24 08:40
653911020	BRA-PZ-68D	Ground Water	01/02/24 09:45	02/02/24 08:40
653911021	BRA-PZ-75I	Ground Water	01/02/24 14:20	02/02/24 08:40

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Prep Methods and Prep Dates

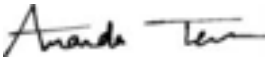
Not Applicable

Analysis Methods and Analysis Dates

Method	Run Date ID
Calculation	27-FEB-2024
Calculation	28-FEB-2024
Calculation	29-FEB-2024
EPA 903.1 Modified	22-FEB-2024
EPA 903.1 Modified	26-FEB-2024
EPA 903.1 Modified	28-FEB-2024
EPA 904.0/SW846 9320 Modified	23-FEB-2024
EPA 904.0/SW846 9320 Modified	27-FEB-2024
EPA 904.0/SW846 9320 Modified	28-FEB-2024

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4504.

Sincerely,



Amanda Turner for
Erin Trent
Project Manager

Purchase Order: GPC82177-0006
Enclosures

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2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 653854 GEL Work Order: 653854

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

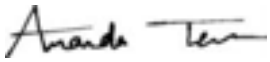
** Analyte is a surrogate compound

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Erin Trent.

Reviewed by 

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Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 653911 GEL Work Order: 653911

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

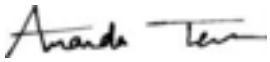
** Analyte is a surrogate compound

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Erin Trent.

Reviewed by 

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Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 653584 GEL Work Order: 653584

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

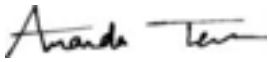
** Analyte is a surrogate compound

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Erin Trent.

Reviewed by 

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Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: February 27, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-BRGWC-32S
Sample ID: 653584001
Matrix: WG
Collect Date: 30-JAN-24
Receive Date: 31-JAN-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	-1.35	+/-0.924	1.98	+/-0.925	3.00	pCi/L			JE1	02/23/24	1250	2568518	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	0.572	+/-1.02	1.98	+/-1.02		pCi/L		1	NXL1	02/27/24	0938	2570132	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.572	+/-0.429	0.446	+/-0.438	1.00	pCi/L			MJ2	02/26/24	1011	2561841	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2568518	88	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: February 27, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-BRGWC-47 Project: GPCC00101
Sample ID: 653584002 Client ID: GPCC001
Matrix: WG
Collect Date: 30-JAN-24
Receive Date: 31-JAN-24
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		2.25	+/-1.25	1.89	+/-1.38	3.00	pCi/L			JE1	02/23/24	1250	2568518	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.63	+/-1.32	1.89	+/-1.44		pCi/L		1	NXL1	02/27/24	0938	2570132	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.377	+/-0.433	0.663	+/-0.437	1.00	pCi/L			MJ2	02/26/24	1011	2561841	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2568518	82.8	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: February 27, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-PZ-44
Sample ID: 653584003
Matrix: WG
Collect Date: 30-JAN-24
Receive Date: 31-JAN-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		2.21	+/-1.16	1.73	+/-1.29	3.00	pCi/L			JE1	02/23/24	1250	2568518	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.87	+/-1.31	1.73	+/-1.43		pCi/L		1	NXL1	02/27/24	0938	2570132	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.660	+/-0.591	0.774	+/-0.600	1.00	pCi/L			MJ2	02/26/24	1011	2561841	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2568518	86.2	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: February 27, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-BRGWA-23S
Sample ID: 653584004
Matrix: WG
Collect Date: 30-JAN-24
Receive Date: 31-JAN-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.275	+/-0.986	1.78	+/-0.989	3.00	pCi/L			JE1	02/23/24	1250	2568518	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	0.605	+/-1.10	1.78	+/-1.11		pCi/L		1	NXL1	02/27/24	0938	2570132	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.330	+/-0.498	0.884	+/-0.502	1.00	pCi/L			MJ2	02/26/24	1029	2561841	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2568518	87.3	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: February 27, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-BRGWC-30I
Sample ID: 653584005
Matrix: WG
Collect Date: 30-JAN-24
Receive Date: 31-JAN-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		2.40	+/-0.985	1.27	+/-1.16	3.00	pCi/L			JE1	02/23/24	1250	2568518	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		4.11	+/-1.30	1.27	+/-1.46		pCi/L		1	NXL1	02/27/24	0938	2570132	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		1.71	+/-0.851	0.776	+/-0.891	1.00	pCi/L			MJ2	02/26/24	1029	2561841	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2568518	88.9	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: February 27, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-APBCD-FD-01 Project: GPCC00101
Sample ID: 653584006 Client ID: GPCC001
Matrix: WG
Collect Date: 30-JAN-24
Receive Date: 31-JAN-24
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	-0.405	+/-1.19	2.24	+/-1.19	3.00	pCi/L			JE1	02/23/24	1250	2568518	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	0.666	+/-1.33	2.24	+/-1.33		pCi/L		1	NXL1	02/27/24	0938	2570132	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.666	+/-0.594	0.814	+/-0.609	1.00	pCi/L			MJ2	02/26/24	1029	2561841	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2568518	83.4	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: February 28, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-BRGWC-29I
Sample ID: 653854001
Matrix: WG
Collect Date: 31-JAN-24
Receive Date: 01-FEB-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.00	+/-1.18	1.99	+/-1.21	3.00	pCi/L			JE1	02/27/24	0820	2568527	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		3.01	+/-1.29	1.99	+/-1.35		pCi/L			NXL1	02/28/24	0843	2568537	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		2.01	+/-0.524	0.359	+/-0.614	1.00	pCi/L			LXP1	02/22/24	0822	2563218	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2568527	77.8	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: February 28, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-BRGWC-25I
Sample ID: 653854002
Matrix: WG
Collect Date: 31-JAN-24
Receive Date: 01-FEB-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.08	+/-0.974	1.59	+/-1.01	3.00	pCi/L			JE1	02/27/24	0820	2568527	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		3.78	+/-1.14	1.59	+/-1.25		pCi/L			NXL1	02/28/24	0843	2568537	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		2.70	+/-0.601	0.442	+/-0.730	1.00	pCi/L			LXP1	02/22/24	0822	2563218	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2568527	88.4	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: February 28, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-BRGWC-27I
Sample ID: 653854003
Matrix: WG
Collect Date: 31-JAN-24
Receive Date: 01-FEB-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.367	+/-0.964	1.73	+/-0.969	3.00	pCi/L			JE1	02/27/24	0820	2568527	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	1.49	+/-1.04	1.73	+/-1.06		pCi/L			NXL1	02/28/24	0843	2568537	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		1.12	+/-0.381	0.245	+/-0.442	1.00	pCi/L			LXP1	02/22/24	0822	2563218	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2568527	78.1	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: February 28, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-APBCD-FB-01 Project: GPCC00101
Sample ID: 653854004 Client ID: GPCC001
Matrix: WQ
Collect Date: 31-JAN-24
Receive Date: 01-FEB-24
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.03	+/-1.10	1.84	+/-1.13	3.00	pCi/L			JE1	02/27/24	0820	2568527	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	1.24	+/-1.11	1.84	+/-1.15		pCi/L			NXL1	02/28/24	0843	2568537	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.217	+/-0.170	0.231	+/-0.177	1.00	pCi/L			LXP1	02/22/24	0822	2563218	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2568527	77.8	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: February 29, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-PZ-50D
Sample ID: 653911001
Matrix: WG
Collect Date: 01-FEB-24
Receive Date: 02-FEB-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		2.39	+/-1.01	1.30	+/-1.18	3.00	pCi/L			JE1	02/27/24	0821	2568527	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		3.93	+/-1.09	1.30	+/-1.28		pCi/L			NXL1	02/28/24	0843	2568537	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		1.54	+/-0.417	0.294	+/-0.492	1.00	pCi/L			LXP1	02/22/24	0926	2563218	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2568527	81.1	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Atlanta, Georgia 30308 Report Date: February 29, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-APBCD-EB-05 Project: GPCC00101
Sample ID: 653911002 Client ID: GPCC001
Matrix: WQ
Collect Date: 01-FEB-24
Receive Date: 02-FEB-24
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.156	+/-0.946	1.74	+/-0.947	3.00	pCi/L			JE1	02/27/24	0821	2568527	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	0.474	+/-0.978	1.74	+/-0.980		pCi/L			NXL1	02/28/24	0843	2568537	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.319	+/-0.250	0.353	+/-0.254	1.00	pCi/L			LXP1	02/22/24	0926	2563218	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2568527	79.9	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Atlanta, Georgia 30308 Report Date: February 29, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-BRGWC-50 Project: GPCC00101
Sample ID: 653911003 Client ID: GPCC001
Matrix: WG
Collect Date: 01-FEB-24
Receive Date: 02-FEB-24
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	-0.0980	+/-1.12	2.09	+/-1.12	3.00	pCi/L			JE1	02/27/24	0821	2568527	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	0.607	+/-1.16	2.09	+/-1.16		pCi/L			NXL1	02/28/24	0843	2568537	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.607	+/-0.287	0.245	+/-0.311	1.00	pCi/L			LXP1	02/22/24	0926	2563218	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2568527	77.9	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Atlanta, Georgia 30308 Report Date: February 29, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-APBCD-FB-03
Sample ID: 653911004
Matrix: WQ
Collect Date: 01-FEB-24
Receive Date: 02-FEB-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.795	+/-1.06	1.81	+/-1.08	3.00	pCi/L			JE1	02/27/24	0821	2568527	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	0.795	+/-1.06	1.81	+/-1.08		pCi/L			NXL1	02/28/24	0843	2568537	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.000	+/-0.0988	0.241	+/-0.0989	1.00	pCi/L			LXP1	02/22/24	0926	2563218	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2568527	81.8	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Atlanta, Georgia 30308 Report Date: February 29, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-BRGWC-45 Project: GPCC00101
Sample ID: 653911005 Client ID: GPCC001
Matrix: WG
Collect Date: 01-FEB-24
Receive Date: 02-FEB-24
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.566	+/-0.912	1.59	+/-0.923	3.00	pCi/L			JE1	02/28/24	0941	2568570	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	1.22	+/-0.991	1.59	+/-1.01		pCi/L		1	NXL1	02/29/24	0906	2570940	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.650	+/-0.388	0.331	+/-0.404	1.00	pCi/L			MJ2	02/28/24	0943	2563219	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2568570	77	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Atlanta, Georgia 30308 Report Date: February 29, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-PZ-58I
Sample ID: 653911006
Matrix: WG
Collect Date: 01-FEB-24
Receive Date: 02-FEB-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.0703	+/-0.991	1.84	+/-0.991	3.00	pCi/L			JE1	02/28/24	0941	2568570	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	0.162	+/-1.02	1.84	+/-1.02		pCi/L		1	NXL1	02/29/24	0906	2570940	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.0921	+/-0.233	0.487	+/-0.234	1.00	pCi/L			MJ2	02/28/24	0943	2563219	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2568570	77.5	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Atlanta, Georgia 30308 Report Date: February 29, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-PZ-60I
Sample ID: 653911007
Matrix: WG
Collect Date: 01-FEB-24
Receive Date: 02-FEB-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		3.04	+/-1.47	2.20	+/-1.67	3.00	pCi/L			JE1	02/28/24	0941	2568570	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		4.39	+/-1.58	2.20	+/-1.78		pCi/L		1	NXL1	02/29/24	0906	2570940	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		1.35	+/-0.576	0.574	+/-0.611	1.00	pCi/L			MJ2	02/28/24	0943	2563219	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2568570	78.5	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Atlanta, Georgia 30308 Report Date: February 29, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-PZ-61I
Sample ID: 653911008
Matrix: WG
Collect Date: 01-FEB-24
Receive Date: 02-FEB-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.80	+/-1.16	1.80	+/-1.25	3.00	pCi/L			JE1	02/28/24	0941	2568570	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.25	+/-1.22	1.80	+/-1.31		pCi/L		1	NXL1	02/29/24	0906	2570940	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.452	+/-0.367	0.407	+/-0.377	1.00	pCi/L			MJ2	02/28/24	0943	2563219	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2568570	77.2	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Atlanta, Georgia 30308 Report Date: February 29, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-PZ-51I
Sample ID: 653911009
Matrix: WG
Collect Date: 01-FEB-24
Receive Date: 02-FEB-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		1.49	+/-0.918	1.37	+/-0.995	3.00	pCi/L			JE1	02/28/24	0941	2568570	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.24	+/-1.03	1.37	+/-1.11		pCi/L		1	NXL1	02/29/24	0906	2570940	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.747	+/-0.472	0.516	+/-0.485	1.00	pCi/L			MJ2	02/28/24	0943	2563219	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2568570	80	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Atlanta, Georgia 30308 Report Date: February 29, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-APBCD-FD-03 Project: GPCC00101
Sample ID: 653911010 Client ID: GPCC001
Matrix: WG
Collect Date: 01-FEB-24
Receive Date: 02-FEB-24
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.22	+/-0.886	1.35	+/-0.940	3.00	pCi/L			JE1	02/28/24	0941	2568570	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.32	+/-1.04	1.35	+/-1.11		pCi/L		1	NXL1	02/29/24	0906	2570940	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		1.10	+/-0.546	0.455	+/-0.587	1.00	pCi/L			MJ2	02/28/24	1002	2563219	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2568570	73.6	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Atlanta, Georgia 30308 Report Date: February 29, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-PZ-51D
Sample ID: 653911011
Matrix: WG
Collect Date: 01-FEB-24
Receive Date: 02-FEB-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		3.02	+/-1.26	1.71	+/-1.47	3.00	pCi/L			JE1	02/28/24	0940	2568570	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		5.03	+/-1.46	1.71	+/-1.68		pCi/L		1	NXL1	02/29/24	0906	2570940	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		2.01	+/-0.737	0.471	+/-0.799	1.00	pCi/L			MJ2	02/28/24	1002	2563219	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2568570	75.7	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Atlanta, Georgia 30308 Report Date: February 29, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-APBCD-EB-04 Project: GPCC00101
Sample ID: 653911012 Client ID: GPCC001
Matrix: WQ
Collect Date: 01-FEB-24
Receive Date: 02-FEB-24
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	-0.171	+/-0.881	1.72	+/-0.882	3.00	pCi/L			JE1	02/28/24	0940	2568570	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	0.0349	+/-0.895	1.72	+/-0.895		pCi/L		1	NXL1	02/29/24	0906	2570940	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.0349	+/-0.153	0.409	+/-0.153	1.00	pCi/L			MJ2	02/28/24	1002	2563219	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2568570	75	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: February 29, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-BRGWC-52I
Sample ID: 653911013
Matrix: WG
Collect Date: 01-FEB-24
Receive Date: 02-FEB-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		2.56	+/-1.16	1.64	+/-1.33	3.00	pCi/L			JE1	02/28/24	0940	2568570	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		4.51	+/-1.32	1.64	+/-1.54		pCi/L		1	NXL1	02/29/24	0906	2570940	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		1.95	+/-0.642	0.413	+/-0.776	1.00	pCi/L			MJ2	02/28/24	1002	2563219	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2568570	83.8	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Atlanta, Georgia 30308 Report Date: February 29, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-PZ-63I
Sample ID: 653911014
Matrix: WG
Collect Date: 01-FEB-24
Receive Date: 02-FEB-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.08	+/-1.10	1.82	+/-1.14	3.00	pCi/L			JE1	02/28/24	0940	2568570	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	1.52	+/-1.16	1.82	+/-1.19		pCi/L		1	NXL1	02/29/24	0906	2570940	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.439	+/-0.358	0.440	+/-0.367	1.00	pCi/L			MJ2	02/28/24	1002	2563219	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2568570	81	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
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Atlanta, Georgia 30308 Report Date: February 29, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-PZ-64I
Sample ID: 653911015
Matrix: WG
Collect Date: 01-FEB-24
Receive Date: 02-FEB-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.682	+/-1.31	2.29	+/-1.33	3.00	pCi/L			JE1	02/28/24	0940	2568570	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	1.05	+/-1.36	2.29	+/-1.37		pCi/L		1	NXL1	02/29/24	0906	2570940	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.364	+/-0.351	0.525	+/-0.359	1.00	pCi/L			MJ2	02/28/24	1002	2563219	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2568570	77.3	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
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Atlanta, Georgia 30308 Report Date: February 29, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-APBCD-FD-02
Sample ID: 653911016
Matrix: WG
Collect Date: 01-FEB-24
Receive Date: 02-FEB-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		2.29	+/-1.41	2.16	+/-1.52	3.00	pCi/L			JE1	02/28/24	1119	2568570	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		4.05	+/-1.57	2.16	+/-1.70		pCi/L		1	NXL1	02/29/24	0906	2570940	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		1.76	+/-0.694	0.404	+/-0.761	1.00	pCi/L			MJ2	02/28/24	1002	2563219	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2568570	82.1	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Address : Company
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Atlanta, Georgia 30308 Report Date: February 29, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-APBCD-FB-02
Sample ID: 653911017
Matrix: WQ
Collect Date: 01-FEB-24
Receive Date: 02-FEB-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	-0.238	+/-0.923	1.79	+/-0.923	3.00	pCi/L			JE1	02/28/24	0940	2568570	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	0.000	+/-0.948	1.79	+/-0.948		pCi/L		1	NXL1	02/29/24	0906	2570940	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	-0.141	+/-0.218	0.701	+/-0.218	1.00	pCi/L			MJ2	02/28/24	1002	2563219	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2568570	80.7	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Company : Georgia Power Company, Southern
Address : Company
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Atlanta, Georgia 30308 Report Date: February 29, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-PZ-74I
Sample ID: 653911018
Matrix: WG
Collect Date: 01-FEB-24
Receive Date: 02-FEB-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.559	+/-0.867	1.51	+/-0.878	3.00	pCi/L			JE1	02/28/24	0939	2568570	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	0.912	+/-0.951	1.51	+/-0.963		pCi/L		1	NXL1	02/29/24	0906	2570940	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.353	+/-0.391	0.614	+/-0.395	1.00	pCi/L			MJ2	02/28/24	1021	2563219	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2568570	83.8	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
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Atlanta, Georgia 30308 Report Date: February 29, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-APBCD-EB-06 Project: GPCC00101
Sample ID: 653911019 Client ID: GPCC001
Matrix: WQ
Collect Date: 01-FEB-24
Receive Date: 02-FEB-24
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.215	+/-0.738	1.38	+/-0.740	3.00	pCi/L			JE1	02/28/24	0939	2568570	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	0.494	+/-0.789	1.38	+/-0.792		pCi/L		1	NXL1	02/29/24	0906	2570940	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.279	+/-0.278	0.363	+/-0.282	1.00	pCi/L			MJ2	02/28/24	1021	2563219	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2568570	82	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: February 29, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-PZ-68D
Sample ID: 653911020
Matrix: WG
Collect Date: 01-FEB-24
Receive Date: 02-FEB-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.09	+/-1.00	1.64	+/-1.04	3.00	pCi/L			JE1	02/28/24	0939	2568570	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.16	+/-1.14	1.64	+/-1.19		pCi/L		1	NXL1	02/29/24	0906	2570940	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		1.07	+/-0.545	0.403	+/-0.584	1.00	pCi/L			MJ2	02/28/24	1021	2563219	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2568570	85.7	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Company : Georgia Power Company, Southern
Address : Company
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Atlanta, Georgia 30308 Report Date: February 29, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-PZ-75I
Sample ID: 653911021
Matrix: WG
Collect Date: 01-FEB-24
Receive Date: 02-FEB-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.679	+/-0.931	1.60	+/-0.947	3.00	pCi/L			JE1	02/28/24	1119	2568570	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.19	+/-1.11	1.60	+/-1.16		pCi/L		1	NXL1	02/29/24	0906	2570940	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		1.51	+/-0.601	0.514	+/-0.676	1.00	pCi/L			MJ2	02/28/24	1021	2563219	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2568570	80.1	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

Radiochemistry
Technical Case Narrative
Georgia Power Company
SDG #: 653584

Product: **Radium-226+Radium-228 Calculation**
Analytical Method: Calculation
Analytical Procedure: GL-RAD-D-003 REV# 45
Analytical Batch: 2570132

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
653584001	BRA-BRGWC-32S
653584002	BRA-BRGWC-47
653584003	BRA-PZ-44
653584004	BRA-BRGWA-23S
653584005	BRA-BRGWC-30I
653584006	BRA-APBCD-FD-01

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **GFPC Ra228, Liquid**
Analytical Method: EPA 904.0/SW846 9320 Modified
Analytical Procedure: GL-RAD-A-063 REV# 5
Analytical Batch: 2568518

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
653584001	BRA-BRGWC-32S
653584002	BRA-BRGWC-47
653584003	BRA-PZ-44
653584004	BRA-BRGWA-23S
653584005	BRA-BRGWC-30I
653584006	BRA-APBCD-FD-01
1205650244	Method Blank (MB)
1205650245	653572001(BRA-BRGWA-2S) Sample Duplicate (DUP)
1205650246	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures

for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Method Blank Criteria
The blank result (See Below) is greater than the MDC but less than the required detection limit.

Sample	Analyte	Value
1205650244 (MB)	Radium-228	Result: 2.37 pCi/L > MDA: 1.79 pCi/L <= RDL: 3.00 pCi/L

Product: **Lucas Cell, Ra226, Liquid**
Analytical Method: EPA 903.1 Modified
Analytical Procedure: GL-RAD-A-008 REV# 15
Analytical Batch: 2561841

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
653584001	BRA-BRGWC-32S
653584002	BRA-BRGWC-47
653584003	BRA-PZ-44
653584004	BRA-BRGWA-23S
653584005	BRA-BRGWC-30I
653584006	BRA-APBCD-FD-01
1205637591	Method Blank (MB)
1205637592	653572001(BRA-BRGWA-2S) Sample Duplicate (DUP)
1205637593	653572001(BRA-BRGWA-2S) Matrix Spike (MS)
1205637594	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments
The matrix spike, 1205637593 (BRA-BRGWA-2SMS), aliquot was reduced to conserve sample volume.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the

requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Radiochemistry
Technical Case Narrative
Georgia Power Company
SDG #: 653911

Product: **Radium-226+Radium-228 Calculation**
Analytical Method: Calculation
Analytical Procedure: GL-RAD-D-003 REV# 45
Analytical Batch: 2568537

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
653911001	BRA-PZ-50D
653911002	BRA-APBCD-EB-05
653911003	BRA-BRGWC-50
653911004	BRA-APBCD-FB-03

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **Radium-226+Radium-228 Calculation**
Analytical Method: Calculation
Analytical Procedure: GL-RAD-D-003 REV# 45
Analytical Batch: 2570940

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
653911005	BRA-BRGWC-45
653911006	BRA-PZ-58I
653911007	BRA-PZ-60I
653911008	BRA-PZ-61I
653911009	BRA-PZ-51I
653911010	BRA-APBCD-FD-03
653911011	BRA-PZ-51D
653911012	BRA-APBCD-EB-04
653911013	BRA-BRGWC-52I
653911014	BRA-PZ-63I
653911015	BRA-PZ-64I
653911016	BRA-APBCD-FD-02
653911017	BRA-APBCD-FB-02
653911018	BRA-PZ-74I
653911019	BRA-APBCD-EB-06
653911020	BRA-PZ-68D
653911021	BRA-PZ-75I

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **GFPC Ra228, Liquid**
Analytical Method: EPA 904.0/SW846 9320 Modified
Analytical Procedure: GL-RAD-A-063 REV# 5
Analytical Batch: 2568527

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
653911001	BRA-PZ-50D
653911002	BRA-APBCD-EB-05
653911003	BRA-BRGWC-50
653911004	BRA-APBCD-FB-03
1205650269	Method Blank (MB)
1205650270	653854001(BRA-BRGWC-29I) Sample Duplicate (DUP)
1205650271	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **GFPC Ra228, Liquid**
Analytical Method: EPA 904.0/SW846 9320 Modified
Analytical Procedure: GL-RAD-A-063 REV# 5
Analytical Batch: 2568570

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
653911005	BRA-BRGWC-45
653911006	BRA-PZ-58I
653911007	BRA-PZ-60I
653911008	BRA-PZ-61I
653911009	BRA-PZ-51I
653911010	BRA-APBCD-FD-03
653911011	BRA-PZ-51D
653911012	BRA-APBCD-EB-04
653911013	BRA-BRGWC-52I

653911014	BRA-PZ-63I
653911015	BRA-PZ-64I
653911016	BRA-APBCD-FD-02
653911017	BRA-APBCD-FB-02
653911018	BRA-PZ-74I
653911019	BRA-APBCD-EB-06
653911020	BRA-PZ-68D
653911021	BRA-PZ-75I
1205650367	Method Blank (MB)
1205650368	653911005(BRA-BRGWC-45) Sample Duplicate (DUP)
1205650369	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Recounts
Sample 653911016 (BRA-APBCD-FD-02) was recounted to verify sample results. Recount is reported. Samples 1205650368 (BRA-BRGWC-45DUP) and 653911021 (BRA-PZ-75I) were recounted due to high relative percent difference/relative error ratio. The recounts are reported.

Product: **Lucas Cell, Ra226, Liquid**
Analytical Method: EPA 903.1 Modified
Analytical Procedure: GL-RAD-A-008 REV# 15
Analytical Batch: 2563218

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
653911001	BRA-PZ-50D
653911002	BRA-APBCD-EB-05
653911003	BRA-BRGWC-50
653911004	BRA-APBCD-FB-03
1205639958	Method Blank (MB)
1205639959	653854001(BRA-BRGWC-29I) Sample Duplicate (DUP)
1205639960	653854001(BRA-BRGWC-29I) Matrix Spike (MS)
1205639961	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments
The matrix spike, 1205639960 (BRA-BRGWC-29IMS), aliquot was reduced to conserve sample volume.

Product: **Lucas Cell, Ra226, Liquid**
Analytical Method: EPA 903.1 Modified
Analytical Procedure: GL-RAD-A-008 REV# 15
Analytical Batch: 2563219

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
653911005	BRA-BRGWC-45
653911006	BRA-PZ-58I
653911007	BRA-PZ-60I
653911008	BRA-PZ-61I
653911009	BRA-PZ-51I
653911010	BRA-APBCD-FD-03
653911011	BRA-PZ-51D
653911012	BRA-APBCD-EB-04
653911013	BRA-BRGWC-52I
653911014	BRA-PZ-63I
653911015	BRA-PZ-64I
653911016	BRA-APBCD-FD-02
653911017	BRA-APBCD-FB-02
653911018	BRA-PZ-74I
653911019	BRA-APBCD-EB-06
653911020	BRA-PZ-68D
653911021	BRA-PZ-75I
1205639962	Method Blank (MB)
1205639963	653911005(BRA-BRGWC-45) Sample Duplicate (DUP)
1205639964	653911005(BRA-BRGWC-45) Matrix Spike (MS)
1205639965	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments
The matrix spike, 1205639964 (BRA-BRGWC-45MS), aliquot was reduced to conserve sample volume.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Radiochemistry
Technical Case Narrative
Georgia Power Company
SDG #: 653854

Product: **Radium-226+Radium-228 Calculation**
Analytical Method: Calculation
Analytical Procedure: GL-RAD-D-003 REV# 45
Analytical Batch: 2568537

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
653854001	BRA-BRGWC-29I
653854002	BRA-BRGWC-25I
653854003	BRA-BRGWC-27I
653854004	BRA-APBCD-FB-01

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **GFPC Ra228, Liquid**
Analytical Method: EPA 904.0/SW846 9320 Modified
Analytical Procedure: GL-RAD-A-063 REV# 5
Analytical Batch: 2568527

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
653854001	BRA-BRGWC-29I
653854002	BRA-BRGWC-25I
653854003	BRA-BRGWC-27I
653854004	BRA-APBCD-FB-01
1205650269	Method Blank (MB)
1205650270	653854001(BRA-BRGWC-29I) Sample Duplicate (DUP)
1205650271	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **Lucas Cell, Ra226, Liquid**
Analytical Method: EPA 903.1 Modified
Analytical Procedure: GL-RAD-A-008 REV# 15
Analytical Batch: 2563218

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
653854001	BRA-BRGWC-29I
653854002	BRA-BRGWC-25I
653854003	BRA-BRGWC-27I
653854004	BRA-APBCD-FB-01
1205639958	Method Blank (MB)
1205639959	653854001(BRA-BRGWC-29I) Sample Duplicate (DUP)
1205639960	653854001(BRA-BRGWC-29I) Matrix Spike (MS)
1205639961	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments
The matrix spike, 1205639960 (BRA-BRGWC-29IMS), aliquot was reduced to conserve sample volume.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

QC Summary

Client : **Georgia Power Company, Southern Company**
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia

Contact: **Joju Abraham**

Workorder: **653584**

Report Date: February 27, 2024

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gas Flow										
Batch 2568518										
QC1205650245 653572001 DUP										
Radium-228		2.10	U	1.41	pCi/L	39.2		(0% - 100%)	JE1	02/23/2412:50
	Uncert:	+/-1.28		+/-0.941						
	TPU:	+/-1.39		+/-1.01						
QC1205650246 LCS										
Radium-228	73.9			80.2	pCi/L		109	(75%-125%)	JE1	02/23/2412:50
	Uncert:			+/-4.25						
	TPU:			+/-21.0						
QC1205650244 MB										
Radium-228				2.37	pCi/L				JE1	02/23/2412:50
	Uncert:			+/-1.21						
	TPU:			+/-1.36						
Rad Ra-226										
Batch 2561841										
QC1205637592 653572001 DUP										
Radium-226	U	0.439	U	0.748	pCi/L	0		N/A	MJ2	02/26/2410:29
	Uncert:	+/-0.391		+/-0.667						
	TPU:	+/-0.398		+/-0.676						
QC1205637594 LCS										
Radium-226	26.4			24.7	pCi/L		93.4	(75%-125%)	MJ2	02/26/2410:29
	Uncert:			+/-3.03						
	TPU:			+/-5.48						
QC1205637591 MB										
Radium-226			U	0.197	pCi/L				MJ2	02/26/2410:29
	Uncert:			+/-0.337						
	TPU:			+/-0.340						
QC1205637593 653572001 MS										
Radium-226	135 U	0.439		114	pCi/L		84.3	(75%-125%)	MJ2	02/26/2410:29
	Uncert:	+/-0.391		+/-14.3						
	TPU:	+/-0.398		+/-31.1						

Notes:

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

The Qualifiers in this report are defined as follows:

U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported

QC Summary

Workorder: **653584**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time

UI	Gamma Spectroscopy--Uncertain identification
BD	Results are either below the MDC or tracer recovery is low
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
M	M if above MDC and less than LLD
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
FA	Failed analysis.
UJ	Gamma Spectroscopy--Uncertain identification
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
K	Analyte present. Reported value may be biased high. Actual value is expected to be lower.
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.
L	Analyte present. Reported value may be biased low. Actual value is expected to be higher.
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
**	Analyte is a Tracer compound
M	REMP Result > MDC/CL and < RDL
J	See case narrative for an explanation

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
** Indicates analyte is a surrogate/tracer compound.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptence criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

QC Summary

Client : **Georgia Power Company, Southern Company**
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia

Contact: **Joju Abraham**

Workorder: **653911**

Report Date: February 29, 2024

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gas Flow										
Batch 2568527										
QC1205650270 653854001 DUP										
Radium-228	U	1.00		1.89	pCi/L	61.3		(0% - 100%)	JE1	02/27/2408:20
	Uncert:	+/-1.18		+/-1.14						
	TPU:	+/-1.21		+/-1.23						
QC1205650271 LCS										
Radium-228	72.9			59.5	pCi/L		81.6	(75%-125%)	JE1	02/27/2408:20
	Uncert:			+/-3.71						
	TPU:			+/-15.9						
QC1205650269 MB										
Radium-228			U	0.543	pCi/L				JE1	02/27/2408:20
	Uncert:			+/-0.948						
	TPU:			+/-0.958						
Batch 2568570										
QC1205650368 653911005 DUP										
Radium-228	U	0.566	U	2.27	pCi/L	0		N/A	JE1	02/28/2411:19
	Uncert:	+/-0.912		+/-1.66						
	TPU:	+/-0.923		+/-1.76						
QC1205650369 LCS										
Radium-228	71.6			60.9	pCi/L		85	(75%-125%)	JE1	02/28/2409:39
	Uncert:			+/-3.76						
	TPU:			+/-16.0						
QC1205650367 MB										
Radium-228			U	0.686	pCi/L				JE1	02/28/2409:39
	Uncert:			+/-0.967						
	TPU:			+/-0.983						
Rad Ra-226										
Batch 2563218										
QC1205639959 653854001 DUP										
Radium-226		2.01		1.67	pCi/L	18.6		(0%-20%)	LXP1	02/22/2409:26
	Uncert:	+/-0.524		+/-0.447						
	TPU:	+/-0.614		+/-0.513						
QC1205639961 LCS										
Radium-226	26.6			29.1	pCi/L		109	(75%-125%)	LXP1	02/22/2409:26
	Uncert:			+/-1.95						
	TPU:			+/-4.97						
QC1205639958 MB										
Radium-226			U	0.137	pCi/L				LXP1	02/22/2409:26
	Uncert:			+/-0.142						
	TPU:			+/-0.145						
QC1205639960 653854001 MS										
Radium-226	93.8	2.01		76.2	pCi/L		79.1	(75%-125%)	LXP1	02/22/2409:26

QC Summary

Workorder: **653911**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Ra-226										
Batch 2563218										
	Uncert:	+/-0.524		+/-5.42						
	TPU:	+/-0.614		+/-12.6						
Batch 2563219										
QC1205639963 653911005 DUP										
Radium-226		0.650		0.665	pCi/L	2.25		(0% - 100%)	MJ2	02/28/2410:21
	Uncert:	+/-0.388		+/-0.419						
	TPU:	+/-0.404		+/-0.439						
QC1205639965 LCS										
Radium-226	26.7			24.7	pCi/L		92.6	(75%-125%)	MJ2	02/28/2410:21
	Uncert:			+/-2.56						
	TPU:			+/-6.39						
QC1205639962 MB										
Radium-226			U	0.0563	pCi/L				MJ2	02/28/2410:21
	Uncert:			+/-0.292						
	TPU:			+/-0.292						
QC1205639964 653911005 MS										
Radium-226	134	0.650		121	pCi/L		89.8	(75%-125%)	MJ2	02/28/2410:21
	Uncert:	+/-0.388		+/-12.4						
	TPU:	+/-0.404		+/-25.5						

Notes:

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

The Qualifiers in this report are defined as follows:

U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported
UI	Gamma Spectroscopy--Uncertain identification
BD	Results are either below the MDC or tracer recovery is low
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
M	M if above MDC and less than LLD
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
FA	Failed analysis.
UJ	Gamma Spectroscopy--Uncertain identification
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
K	Analyte present. Reported value may be biased high. Actual value is expected to be lower.
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.

QC Summary

Workorder: **653911**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

L Analyte present. Reported value may be biased low. Actual value is expected to be higher.

N1 See case narrative

Y Other specific qualifiers were required to properly define the results. Consult case narrative.

** Analyte is a Tracer compound

M REMP Result > MDC/CL and < RDL

J See case narrative for an explanation

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
** Indicates analyte is a surrogate/tracer compound.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptence criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

QC Summary

Client : **Georgia Power Company, Southern Company**
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia

Contact: **Joju Abraham**

Workorder: **653854**

Report Date: February 28, 2024

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gas Flow										
Batch 2568527										
QC1205650270 653854001 DUP										
Radium-228	U	1.00		1.89	pCi/L	61.3		(0% - 100%)	JE1	02/27/2408:20
	Uncert:	+/-1.18		+/-1.14						
	TPU:	+/-1.21		+/-1.23						
QC1205650271 LCS										
Radium-228	72.9			59.5	pCi/L		81.6	(75%-125%)	JE1	02/27/2408:20
	Uncert:			+/-3.71						
	TPU:			+/-15.9						
QC1205650269 MB										
Radium-228			U	0.543	pCi/L				JE1	02/27/2408:20
	Uncert:			+/-0.948						
	TPU:			+/-0.958						
Rad Ra-226										
Batch 2563218										
QC1205639959 653854001 DUP										
Radium-226		2.01		1.67	pCi/L	18.6		(0%-20%)	LXP1	02/22/2409:26
	Uncert:	+/-0.524		+/-0.447						
	TPU:	+/-0.614		+/-0.513						
QC1205639961 LCS										
Radium-226	26.6			29.1	pCi/L		109	(75%-125%)	LXP1	02/22/2409:26
	Uncert:			+/-1.95						
	TPU:			+/-4.97						
QC1205639958 MB										
Radium-226			U	0.137	pCi/L				LXP1	02/22/2409:26
	Uncert:			+/-0.142						
	TPU:			+/-0.145						
QC1205639960 653854001 MS										
Radium-226	93.8	2.01		76.2	pCi/L		79.1	(75%-125%)	LXP1	02/22/2409:26
	Uncert:	+/-0.524		+/-5.42						
	TPU:	+/-0.614		+/-12.6						

Notes:

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

The Qualifiers in this report are defined as follows:

U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported

QC Summary

Workorder: **653854**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time

UI	Gamma Spectroscopy--Uncertain identification
BD	Results are either below the MDC or tracer recovery is low
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
M	M if above MDC and less than LLD
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
FA	Failed analysis.
UJ	Gamma Spectroscopy--Uncertain identification
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
K	Analyte present. Reported value may be biased high. Actual value is expected to be lower.
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.
L	Analyte present. Reported value may be biased low. Actual value is expected to be higher.
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
**	Analyte is a Tracer compound
M	REMP Result > MDC/CL and < RDL
J	See case narrative for an explanation

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
** Indicates analyte is a surrogate/tracer compound.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptence criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Page: ____ of ____
Project #
GEL Quote #
COC Number [1]:
PO Number: GPC82177-0006

GEL Laboratories LLC 653853/653854
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics
Chain of Custody and Analytical Request
GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-817
Fax: (843) 766-1178

Client Name: GA Power | Phone #: 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - BCD | Fax #:
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: J Powell # Rid ACC | Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply sample info.)	Should this sample be considered: (?) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS, NO3 EPA 300.0/SM 4500-Cl C	Total Calc. & Ranks 6010 (21296)	Metals * EPA 6020, 6010, 7470	Radium 226 & 228 SW-846 9315, 9320	Sulfide SM 4500	<- Preservative Type (6)	Comments
BRA-BRGWC-29I	01/31/24	1040	G	N	WG			8	✓	✓	✓	✓	✓		Note: extra sample is required for sample specific QC Task_Code: BRA-CCR-ASSMT-2024S1
BRA-BRGWC-35I	01/31/24	1437	G	N	WG			8	✓	✓	✓	✓	✓		
BRA-BRGWC-27I	01/31/24	1540	G	N	WG			8	✓	✓	✓	✓	✓		
BRA-APBCD-FB-01	01/31/24	1425	G	N	WQ			8	✓	✓	✓	✓	✓		
BRA-															
BRA-															
BRA-															
BRA-															
BRA-															
BRA-															

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	[signature]	2/1/24	0836	[signature]	2/1/24	0836
2	[signature]	2/1/24	100	[signature]	2/1/24	1300
3						

TAT Requested: Normal: x Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [x] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] Level 1 [x] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mn,Se,Tl,Fe,Mg,Mn,K,Na,Hg

For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No Cooler Temp: ____ °C

> For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other

1.) Chain of Custody Number = Client Determined

2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

3.) Field Filtered: For liquid matrices, indicate with a "Y" for yes the sample was field filtered or "N" for no the sample was not field filtered.

4.) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B = 3, 6010B/7470A = 1)

6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic Hg= Mercury
Ba = Barium Se= Selenium
Cd = Cadmium Ag= Silver
Cr = Chromium MR= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, pyrophoric, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e. Origin of sample(s), type of site collected from, odd matrices, etc.)

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GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPC	SDG/AR/COC/Work Order:
Received By: CLM	Date Received: 2/1/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier (Other) Coolers 1-0° 3-1° 5-0° 2-0° 4-0° 6-1°

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation
A) Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	Max Activity: Temp Blank Activity: Comments:
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM / mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?		✓	COC Comments: Sample Labels: Container Labels: Sample Containers:
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

Sample Receipt Criteria		Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: Wet Ice Ice Packs Dry Ice None Other: *all temperatures are recorded in Celsius TEMP: See above with coolers
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR8-25 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation Added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___ (If yes, skip to VOA Section) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___ (If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No date on containers No time on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials WJ Date 02/02/24 Page 1 of 1

GL-CHL-SFR-001 Rev 7

653909
653911

Page: ___ of ___
Project #:
GEL Quote #:
COC Number (1):
PO Number: GPC82177-0006

GEL Laboratories LLC
Chemistry | Radiochemistry | Radiobiology | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power | Phone #: 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - BCD | Fax #:
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: [illegible] ACC | Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested (2) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (5) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS, NO3 EPA 300; SM 2320B	Total Calc & Hard. SM 2340B	Metals * EPA 6020, 6010, 7470	Radium 226 & 228 SW 846 9315, 9320	%Solids SM 2540	N2	N2	<-- Preservative Type (6)
BRA-P2-50D	02/01/24	1015	G	N	WG			8	✓	✓	✓	✓	✓			
BRA-APBCD-EB-05	02/01/24	1130	G	N	WQ			8	✓	✓	✓	✓	✓			
BRA-BRGWC-50	02/01/24	1200	G	N	WG			8	✓	✓	✓	✓	✓			
BRA-APBCD-FB-03	02/01/24	1330	G	N	WQ			8	✓	✓	✓	✓	✓			
BRA-BRGWC-45	02/01/24	1350	G	N	WG			8	✓	✓	✓	✓	✓			
BRA-P2-58I	02/01/24	1012	G	N	WG			8	✓	✓	✓	✓	✓			
BRA-P2-60I	02/01/24	1313	G	N	WG			8	✓	✓	✓	✓	✓			
BRA-P2-61I	02/01/24	1133	G	N	WG			8	✓	✓	✓	✓	✓			
BRA-P2-51I	02/01/24	1349	G	N	WG			8	✓	✓	✓	✓	✓			
BRA-APBCD-FD-03	02/01/24	—	G	N	WG			8	✓	✓	✓	✓	✓			

Comments
Note: extra sample is required for sample specific QC
Task_Code: BRA-CCR-ASSMT-2024S1

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1 [illegible]	2/2/24	0840	1 Thyssia Tate	2/2/24	840
2			2		
3			3		

TAT Requested: Normal: X Rush: ___ Specify: ___ (Subject to Surcharge)

Tax Results: [ ] Yes [x] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] Level 1 [x] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg

For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No Cooler Temp: ___ °C

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR).*

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1) Chain of Custody Number = Client Determined

2) QC Codes: N = Normal Sample, TB = Trip Blank, FB = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

3) Field Filtered: For liquid matrices, indicate with a "Y" for yes the sample was field filtered or "N" for sample was not field filtered.

4) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix

5) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B – 3, 6010B/7470A – 1)

6) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

7) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic; Ba = Barium; Cd = Cadmium; Cr = Chromium; Pb = Lead; Hg = Mercury; Se = Selenium; Ag = Silver; MR = Misc. RCRA metals

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW = Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT = Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e. Origin of sample(s), type of site collected from, soil matrices, etc.)

653909
653911

Page: ____ of ____
Project #
GEL Quote #
COC Number [1]
PO Number: GPCE2177-0006

GEL Laboratories LLC
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories,
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power — Phone #: 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - BCD — Tax #
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: S.BRAFFIELD AJ/JT — ACC — Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (Hours)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotope info.)	Should this sample be considered: (?) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS, NH3 EPA 300, SM 2540C	Total Calc. & Diss Ab SM 2320B	Metals + EPA 6020, 6010, 7470	NI	Radium 226 & 228 EW 846 9315, 9320	NI	Sulfide SM 4500	Preservative Type [6]	Comments
BRA-PZ-51D	02/01/24	1011	G	N	WG			8	✓	✓	✓		✓		✓		Note: extra sample is required for sample specific QC Task Code: BRA-CCR-ASSMT-202451
BRA-APBCD-FB-04	02/01/24	1010	G	N	WQ			8	✓	✓	✓		✓		✓		
BRA-BGWC-52I	02/01/24	1015	G	N	WG			8	✓	✓	✓		—		✓		
BRA-PZ-63I	02/01/24	1410	G	N	WG			8	✓	✓	✓		✓		✓		
BRA-PZ-64I	02/01/24	1200	G	N	WG			8	✓	✓	✓		✓		✓		
BRA-APBCD-FD-02	02/01/24	—	G	N	WG			8	✓	✓	✓		✓		✓		
BRA-APBCD-FB-02	02/01/24	1115	G	N	WQ			8	✓	✓	✓		✓		✓		
BRA-PZ-74I	02/01/24	1200	G	N	WG			8	✓	✓	✓		✓		✓		
BRA-APBCD-EB-06	02/01/24	1325	G	N	WQ			8	✓	✓	✓		✓		✓		
BRA-PZ-62D	02/01/24	0945	G	N	WG			8	✓	✓	✓		✓		✓		

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	2/2/24	0840	1	2/2/24	840
2			2		
3			3		

TAT Requested: Normal: X Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [x] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] Level 1 [x] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mn,Se,Tl,Fe,Mg,Mo,K,Na,Hg

For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No Cooler Temp: ____ °C

> For sample shipping and delivery details, see Sample Receipt & Review form (SRR)

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Chain Documented

2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered

4.) Matrix Codes: WB=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1)

6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, TH = Thiosulfate, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic; Hg = Mercury
Ba = Barium; Se = Selenium
Cd = Cadmium; Ag = Silver
Cr = Chromium; MR = Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW = Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT = Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, ionizers, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e. Origin of sample(s), type of site collected from, odd matrices, etc.)

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Page: ____ of ____
Project #
GEL Quote #:
COC Number (1):
PO Number: GPC82177-0006

GEL Laboratories LLC
Chemistry / Radiochemistry / Radiobioassay / Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories,
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power | Phone # 404-505-7116

Project/Site Name: Plant Branch Ash Ponds - BCD | Fax #

Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308

Collected By: SB / MA/TL/AS/JACC | Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested (2) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (Hours)	QC Code (3)	Field Filtered (4)	Sample Matrix (5)	Should this sample be considered: Radioactive (1) (ex. plume study, isotope info.)	Should this sample be considered: (2) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS, NO3 EPA 300, SM 2540C	Total Cyn, & Hexa Alk SM 2320B	Metals* EPA 6020, 7470	Radium 226/228 EPA 9315, 9320	Sulfide SM 4500							Comments Note: extra sample is required for sample specific QC Task_Code: BRA-CCR-ASSMT-202451
BRA- PZ-741	12/11/24	1420	D	N	WG			8	✓	✓	✓	✓	✓							
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BRA-																				
BRA-																				
BRA-																				

<- Preservative Type (6)

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	[signature]	12/12/24	0840	[signature] Tatum	12/12/24	840
2						
3						

TAT Requested: Normal: x Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [x] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] Level 1 [x] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg

For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No Cooler Temp: ____ °C

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR).*

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

3.) Field Filtered: For liquid matrices, indicate with a "Y" for yes the sample was field filtered or "N" for sample was not field filtered.

4.) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B, 6010B/7470A**) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).

6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, DI = Deionized, ST = Sodium Thiosulfate. If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic; Ba = Barium; Cd = Cadmium; Cr = Chromium; Pb = Lead; Hg= Mercury; Se= Selenium; Ag= Silver; MR= Misc. RCRA metals

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e. - Origin of sample(s), type of site collected from, solid matrices, etc.)

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653911

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	SDG/AR/COC/Work Order:
Received By: QG	Date Received: 2/2/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other: n/a

Suspected Hazard Information	Yes	No	
			*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A) Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM/mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below: PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)*	✓			Preservation Method: Wet Ice Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: 2°C
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: 851-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservative added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If VoC are Encore or Soil Kits present for solids? Yes___ No___ NA___ (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___ (If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials WJ Date 02/05/24 Page 1 of 1

653582/653584

Page ___ of ___
Project #
GEL Quote #:
COC Number [1]:
PO Number: GPC82177.4006

GEL Laboratories LLC
gel.com | Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power | Phone # 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - BCD | Fax #
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: [illegible] HAB[CC] | Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested [5] (fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: (1) Hazardous (yes, please supply sample info.)	(1) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS, NO2 EPA 300, SM 4500C	Total Calc. & Metals Alk SM 2320B	Metals * EPA 6020, 6010, 7470	Radium 226 & 228 SW 846 9315, 9320	Sulfide SM 4500	<-- Preservative Type (6)
BRA-BEGWC-325	01/30/24	1255	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-BRGWC-47	01/30/24	1456	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-FZ-44	01/30/24	1620	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-BRGWA-235	01/30/24	1238	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-BRGWC-303	01/30/24	1734	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-APBCD-FD-01	01/30/24	—	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-														
BRA-														
BRA-														
BRA-														

Comments
Note: extra sample is required for sample specific QC
Task_Code: BRA-CCR-ASSMT-202451

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	1/31/24	0808	1	1/31/24	8:20
2	1/31/24	104	2	1/31/24	1306
3			3		

TAT Requested: Normal: x Rush: ___ Specify: ___ (Subject to Surcharge)
Fax Results: [ ] Yes [x] No
Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [x] Level 2 [ ] Level 3 [ ] Level 4
Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg
For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No Cooler Temp: 1 °C

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR).*
Sample Collection Time Zone [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other

1.) Chain of Custody Number = Client Determined
2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite
3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered
4.) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix
5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1)
6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HS = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

1.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic; Hg= Mercury
Ba = Barium; Se= Selenium
Cd = Cadmium; Ag= Silver
Cr = Chromium; MIsc= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other toxic health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), if gas oil was collected from, soil matrices, etc.)

653570 653584
653572 653575
653582 653580

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	SDG/AR/COC/Work Order:
Received By: QG	Date Received: 1/31/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other
	n/a

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A) Shipped as a DOT Hazardous?			Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?			COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?			Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?			COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?			If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)*	✓			Preservation Method: Wet Ice Ice Packs Dry Ice None Other: *all temperatures are recorded in Celsius TEMP: 4.6
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR1-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___ (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___ (If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials WJ Date 01/02/24 Page 1 of 1

List of current GEL Certifications as of 28 February 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122024-05
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-23-21
Utah NELAP	SC000122023-38
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

February 08, 2024

Kelley Sharpe
ARCADIS - Atlanta
2839 Paces Ferry Rd
STE 900
Atlanta, GA 30339

RE: Project: Plant Branch-CCR Ash Pond
Pace Project No.: 92711030

Dear Kelley Sharpe:

Enclosed are the analytical results for sample(s) received by the laboratory on January 31, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Asheville
- Pace Analytical Services - Peachtree Corners, GA

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Maiya Parks
maiya.parks@pacelabs.com
770-734-4205
Project Manager

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Lauren Fitzgerald, Geosyntec Consultans, Inc
Jordan Gamble, ARCADIS - Atlanta
Ben Hodges, Georgia Power-CCR
Warren Johnson, ARCADIS - Atlanta
Laura Midkiff, Southern Company
Caroline Nelson, Geosyntec Consultants, Inc
Noelia Muskus Ruiz, Georgia Power
Tina Sullivan, ERM

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

CERTIFICATIONS

Project: Plant Branch-CCR Ash Pond
Pace Project No.: 92711030

Pace Analytical Services Asheville
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners
110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
North Carolina Certification #: 381
South Carolina Certification #: 98011001
Virginia Certification #: 460204

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110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE SUMMARY

Project: Plant Branch-CCR Ash Pond
Pace Project No.: 92711030

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92711030001	**BRA-LR+10(bottom)**	Water	01/31/24 10:30	01/31/24 15:25
92711030002	**BRA-LR+10(mid)**	Water	01/31/24 10:25	01/31/24 15:25
92711030003	**BRA-LR+10(surface)**	Water	01/31/24 10:14	01/31/24 15:25
92711030004	**BRA-LR+8(bottom)**	Water	01/31/24 11:25	01/31/24 15:25
92711030005	**BRA-LR+8(mid)**	Water	01/31/24 11:20	01/31/24 15:25
92711030006	**BRA-LR+8(surface)**	Water	01/31/24 11:15	01/31/24 15:25
92711030007	**BRA-LR+8A(surface)**	Water	01/31/24 11:10	01/31/24 15:25
92711030008	**BRA-LR+9(bottom)**	Water	01/31/24 10:50	01/31/24 15:25
92711030009	**BRA-LR+9(mid)**	Water	01/31/24 10:45	01/31/24 15:25
92711030010	**BRA-LR+9(surface)**	Water	01/31/24 10:40	01/31/24 15:25
92711030011	**BRA-LR+9A(surface)**	Water	01/31/24 11:00	01/31/24 15:25
92711030012	**BRA-LR-1(bottom)**	Water	01/31/24 11:50	01/31/24 15:25
92711030013	**BRA-LR-1(mid)**	Water	01/31/24 11:45	01/31/24 15:25
92711030014	**BRA-LR-1(surface)**	Water	01/31/24 11:40	01/31/24 15:25
92711030015	**BRA-LS+3(mid)**	Water	01/31/24 12:15	01/31/24 15:25
92711030016	**BRA-LS+3(surface)**	Water	01/31/24 12:10	01/31/24 15:25
92711030017	**BRA-LS+3A(surface)**	Water	01/31/24 12:05	01/31/24 15:25

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(770)734-4200

SAMPLE ANALYTE COUNT

Project: Plant Branch-CCR Ash Pond
Pace Project No.: 92711030

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92711030001	**BRA-LR+10(bottom)**	EPA 6010D	AJM, DRB	5	PASI-GA
		EPA 6020B	MT1	2	PASI-GA
		SM 2320B-2011	SMS	2	PASI-A
		SM 2540C-2015	RVS	1	PASI-A
		EPA 9056A	JCM	3	PASI-A
92711030002	**BRA-LR+10(mid)**	EPA 6010D	AJM, DRB	5	PASI-GA
		EPA 6020B	MT1	2	PASI-GA
		SM 2320B-2011	SMS	2	PASI-A
		SM 2540C-2015	RVS	1	PASI-A
		EPA 9056A	JCM	3	PASI-A
92711030003	**BRA-LR+10(surface)**	EPA 6010D	AJM, DRB	5	PASI-GA
		EPA 6020B	MT1	2	PASI-GA
		SM 2320B-2011	SMS	2	PASI-A
		SM 2540C-2015	RVS	1	PASI-A
		EPA 9056A	JCM	3	PASI-A
92711030004	**BRA-LR+8(bottom)**	EPA 6010D	AJM, DRB	5	PASI-GA
		EPA 6020B	MT1	1	PASI-GA
		SM 2320B-2011	SMS	2	PASI-A
		SM 2540C-2015	RVS	1	PASI-A
		EPA 9056A	JCM	3	PASI-A
92711030005	**BRA-LR+8(mid)**	EPA 6010D	AJM, DRB	5	PASI-GA
		EPA 6020B	MT1	1	PASI-GA
		SM 2320B-2011	SMS	2	PASI-A
		SM 2540C-2015	RVS	1	PASI-A
		EPA 9056A	JCM	3	PASI-A
92711030006	**BRA-LR+8(surface)**	EPA 6010D	AJM, DRB	5	PASI-GA
		EPA 6020B	MT1	1	PASI-GA
		SM 2320B-2011	SMS	2	PASI-A
		SM 2540C-2015	RVS	1	PASI-A
		EPA 9056A	CDC	3	PASI-A
92711030007	**BRA-LR+8A(surface)**	EPA 6010D	AJM, DRB	5	PASI-GA
		EPA 6020B	MT1	1	PASI-GA
		SM 2320B-2011	SMS	2	PASI-A
		SM 2540C-2015	RVS	1	PASI-A
		EPA 9056A	JCM	3	PASI-A
92711030008	**BRA-LR+9(bottom)**	EPA 6010D	AJM, DRB	5	PASI-GA
		EPA 6020B	MT1	1	PASI-GA

REPORT OF LABORATORY ANALYSIS

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110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE ANALYTE COUNT

Project: Plant Branch-CCR Ash Pond
Pace Project No.: 92711030

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 2320B-2011	SMS	2	PASI-A
		SM 2540C-2015	RVS	1	PASI-A
		EPA 9056A	JCM	3	PASI-A
92711030009	**BRA-LR+9(mid)**	EPA 6010D	AJM, DRB	5	PASI-GA
		EPA 6020B	MT1	1	PASI-GA
		SM 2320B-2011	SMS	2	PASI-A
		SM 2540C-2015	RVS	1	PASI-A
		EPA 9056A	JCM	3	PASI-A
92711030010	**BRA-LR+9(surface)**	EPA 6010D	AJM, DRB	5	PASI-GA
		EPA 6020B	MT1	1	PASI-GA
		SM 2320B-2011	YEG	2	PASI-A
		SM 2540C-2015	RVS	1	PASI-A
		EPA 9056A	JCM	3	PASI-A
92711030011	**BRA-LR+9A(surface)**	EPA 6010D	AJM, DRB	5	PASI-GA
		EPA 6020B	MT1	1	PASI-GA
		SM 2320B-2011	YEG	2	PASI-A
		SM 2540C-2015	RVS	1	PASI-A
		EPA 9056A	JCM	3	PASI-A
92711030012	**BRA-LR-1(bottom)**	EPA 6010D	AJM, DRB	5	PASI-GA
		EPA 6020B	MT1	2	PASI-GA
		SM 2320B-2011	YEG	2	PASI-A
		SM 2540C-2015	RVS	1	PASI-A
		EPA 9056A	JCM	3	PASI-A
92711030013	**BRA-LR-1(mid)**	EPA 6010D	AJM, DRB	5	PASI-GA
		EPA 6020B	MT1	2	PASI-GA
		SM 2320B-2011	YEG	2	PASI-A
		SM 2540C-2015	RVS	1	PASI-A
		EPA 9056A	JCM	3	PASI-A
92711030014	**BRA-LR-1(surface)**	EPA 6010D	AJM, DRB	5	PASI-GA
		EPA 6020B	MT1	2	PASI-GA
		SM 2320B-2011	YEG	2	PASI-A
		SM 2540C-2015	RVS	1	PASI-A
		EPA 9056A	JCM	3	PASI-A
92711030015	**BRA-LS+3(mid)**	EPA 6010D	AJM, DRB	5	PASI-GA
		EPA 6020B	MT1	1	PASI-GA
		SM 2320B-2011	YEG	2	PASI-A
		SM 2540C-2015	RVS	1	PASI-A

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110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE ANALYTE COUNT

Project: Plant Branch-CCR Ash Pond
Pace Project No.: 92711030

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 9056A	JCM	3	PASI-A
92711030016	**BRA-LS+3(surface)**	EPA 6010D	AJM, DRB	5	PASI-GA
		EPA 6020B	MT1	1	PASI-GA
		SM 2320B-2011	YEG	2	PASI-A
		SM 2540C-2015	RVS	1	PASI-A
		EPA 9056A	JCM	3	PASI-A
92711030017	**BRA-LS+3A(surface)**	EPA 6010D	AJM, DRB	5	PASI-GA
		EPA 6020B	MT1	1	PASI-GA
		SM 2320B-2011	YEG	2	PASI-A
		SM 2540C-2015	RVS	1	PASI-A
		EPA 9056A	JCM	3	PASI-A

PASI-A = Pace Analytical Services - Asheville
PASI-GA = Pace Analytical Services - Peachtree Corners, GA

REPORT OF LABORATORY ANALYSIS

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110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Branch-CCR Ash Pond
Pace Project No.: 92711030

Sample: BRA-LR+10(bottom) **Lab ID: 92711030001** Collected: 01/31/24 10:30 Received: 01/31/24 15:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Boron	ND	mg/L	0.040	1	02/01/24 14:56	02/05/24 00:01	7440-42-8	
Calcium	**3.7**	mg/L	1.0	1	02/01/24 14:56	02/05/24 00:01	7440-70-2	
Magnesium	**1.9**	mg/L	0.050	1	02/01/24 14:56	02/05/24 00:01	7439-95-4	
Potassium	**3.0**	mg/L	0.50	1	02/01/24 14:56	02/05/24 14:52	7440-09-7	
Sodium	**3.9**	mg/L	1.0	1	02/01/24 14:56	02/05/24 14:52	7440-23-5	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Cobalt	ND	mg/L	0.0050	1	02/01/24 10:00	02/01/24 16:17	7440-48-4	
Selenium	ND	mg/L	0.0050	1	02/01/24 10:00	02/01/24 16:17	7782-49-2	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville							
Alkalinity,Bicarbonate (CaCO3)	**17.7**	mg/L	5.0	1		02/02/24 16:49		
Alkalinity, Total as CaCO3	**17.7**	mg/L	5.0	1		02/02/24 16:49		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville							
Total Dissolved Solids	**102**	mg/L	25.0	1		02/01/24 22:11		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville							
Chloride	**2.9**	mg/L	1.0	1		02/01/24 04:21	16887-00-6	
Fluoride	ND	mg/L	0.10	1		02/01/24 04:21	16984-48-8	
Sulfate	**2.1**	mg/L	1.0	1		02/01/24 04:21	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Branch-CCR Ash Pond
Pace Project No.: 92711030

Sample: BRA-LR+10(mid) **Lab ID: 92711030002** Collected: 01/31/24 10:25 Received: 01/31/24 15:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Potassium	**3.0**	mg/L	0.50	1	02/01/24 14:56	02/05/24 14:57	7440-09-7	
Sodium	**3.8**	mg/L	1.0	1	02/01/24 14:56	02/05/24 14:57	7440-23-5	
Boron	ND	mg/L	0.040	1	02/01/24 14:56	02/05/24 00:06	7440-42-8	
Calcium	**3.6**	mg/L	1.0	1	02/01/24 14:56	02/05/24 00:06	7440-70-2	
Magnesium	**1.9**	mg/L	0.050	1	02/01/24 14:56	02/05/24 00:06	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Cobalt	ND	mg/L	0.0050	1	02/01/24 10:00	02/01/24 16:20	7440-48-4	
Selenium	ND	mg/L	0.0050	1	02/01/24 10:00	02/01/24 16:20	7782-49-2	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville							
Alkalinity,Bicarbonate (CaCO3)	**17.6**	mg/L	5.0	1		02/02/24 17:05		
Alkalinity, Total as CaCO3	**17.6**	mg/L	5.0	1		02/02/24 17:05		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville							
Total Dissolved Solids	**99.0**	mg/L	25.0	1		02/01/24 22:11		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville							
Chloride	**3.0**	mg/L	1.0	1		02/01/24 04:35	16887-00-6	
Fluoride	ND	mg/L	0.10	1		02/01/24 04:35	16984-48-8	
Sulfate	**2.1**	mg/L	1.0	1		02/01/24 04:35	14808-79-8	

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(770)734-4200

ANALYTICAL RESULTS

Project: Plant Branch-CCR Ash Pond
Pace Project No.: 92711030

Sample: BRA-LR+10(surface) **Lab ID: 92711030003** Collected: 01/31/24 10:14 Received: 01/31/24 15:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Boron	ND	mg/L	0.040	1	02/01/24 14:56	02/05/24 00:11	7440-42-8	
Calcium	**3.7**	mg/L	1.0	1	02/01/24 14:56	02/05/24 00:11	7440-70-2	
Magnesium	**1.9**	mg/L	0.050	1	02/01/24 14:56	02/05/24 00:11	7439-95-4	
Potassium	**3.0**	mg/L	0.50	1	02/01/24 14:56	02/05/24 15:01	7440-09-7	
Sodium	**3.7**	mg/L	1.0	1	02/01/24 14:56	02/05/24 15:01	7440-23-5	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Cobalt	ND	mg/L	0.0050	1	02/01/24 10:00	02/01/24 16:35	7440-48-4	
Selenium	ND	mg/L	0.0050	1	02/01/24 10:00	02/01/24 16:35	7782-49-2	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville							
Alkalinity,Bicarbonate (CaCO3)	**17.9**	mg/L	5.0	1		02/02/24 17:11		
Alkalinity, Total as CaCO3	**17.9**	mg/L	5.0	1		02/02/24 17:11		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville							
Total Dissolved Solids	**97.0**	mg/L	25.0	1		02/01/24 22:11		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville							
Chloride	**2.9**	mg/L	1.0	1		02/01/24 04:49	16887-00-6	
Fluoride	ND	mg/L	0.10	1		02/01/24 04:49	16984-48-8	
Sulfate	**2.1**	mg/L	1.0	1		02/01/24 04:49	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Branch-CCR Ash Pond
Pace Project No.: 92711030

Sample: BRA-LR+8(bottom) **Lab ID: 92711030004** Collected: 01/31/24 11:25 Received: 01/31/24 15:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Boron	ND	mg/L	0.040	1	02/01/24 14:56	02/05/24 00:16	7440-42-8	
Calcium	**3.6**	mg/L	1.0	1	02/01/24 14:56	02/05/24 00:16	7440-70-2	
Magnesium	**1.8**	mg/L	0.050	1	02/01/24 14:56	02/05/24 00:16	7439-95-4	
Potassium	**2.9**	mg/L	0.50	1	02/01/24 14:56	02/05/24 15:06	7440-09-7	
Sodium	**3.6**	mg/L	1.0	1	02/01/24 14:56	02/05/24 15:06	7440-23-5	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Cobalt	ND	mg/L	0.0050	1	02/01/24 10:00	02/01/24 16:39	7440-48-4	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville							
Alkalinity,Bicarbonate (CaCO3)	**17.4**	mg/L	5.0	1		02/02/24 17:17		
Alkalinity, Total as CaCO3	**17.4**	mg/L	5.0	1		02/02/24 17:17		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville							
Total Dissolved Solids	**98.0**	mg/L	25.0	1		02/01/24 22:11		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville							
Chloride	**2.8**	mg/L	1.0	1		02/01/24 05:04	16887-00-6	
Fluoride	ND	mg/L	0.10	1		02/01/24 05:04	16984-48-8	
Sulfate	**2.0**	mg/L	1.0	1		02/01/24 05:04	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Branch-CCR Ash Pond
Pace Project No.: 92711030

Sample: BRA-LR+8(mid) **Lab ID: 92711030005** Collected: 01/31/24 11:20 Received: 01/31/24 15:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Potassium	**2.7**	mg/L	0.50	1	02/01/24 14:56	02/05/24 15:11	7440-09-7	
Sodium	**3.4**	mg/L	1.0	1	02/01/24 14:56	02/05/24 15:11	7440-23-5	
Boron	ND	mg/L	0.040	1	02/01/24 14:56	02/05/24 00:20	7440-42-8	
Calcium	**3.5**	mg/L	1.0	1	02/01/24 14:56	02/05/24 00:20	7440-70-2	
Magnesium	**1.7**	mg/L	0.050	1	02/01/24 14:56	02/05/24 00:20	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Cobalt	ND	mg/L	0.0050	1	02/01/24 10:00	02/01/24 16:43	7440-48-4	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville							
Alkalinity,Bicarbonate (CaCO3)	**17.7**	mg/L	5.0	1		02/02/24 17:24		
Alkalinity, Total as CaCO3	**17.7**	mg/L	5.0	1		02/02/24 17:24		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville							
Total Dissolved Solids	**96.0**	mg/L	25.0	1		02/01/24 22:11		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville							
Chloride	**2.8**	mg/L	1.0	1		02/01/24 05:18	16887-00-6	
Fluoride	ND	mg/L	0.10	1		02/01/24 05:18	16984-48-8	
Sulfate	**2.1**	mg/L	1.0	1		02/01/24 05:18	14808-79-8	M1,R1

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ANALYTICAL RESULTS

Project: Plant Branch-CCR Ash Pond
Pace Project No.: 92711030

Sample: BRA-LR+8(surface) **Lab ID: 92711030006** Collected: 01/31/24 11:15 Received: 01/31/24 15:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Potassium	**3.0**	mg/L	0.50	1	02/01/24 14:56	02/05/24 15:16	7440-09-7	
Sodium	**3.7**	mg/L	1.0	1	02/01/24 14:56	02/05/24 15:16	7440-23-5	
Boron	ND	mg/L	0.040	1	02/01/24 14:56	02/05/24 00:25	7440-42-8	
Calcium	**3.8**	mg/L	1.0	1	02/01/24 14:56	02/05/24 00:25	7440-70-2	
Magnesium	**1.9**	mg/L	0.050	1	02/01/24 14:56	02/05/24 00:25	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Cobalt	ND	mg/L	0.0050	1	02/01/24 10:00	02/01/24 16:46	7440-48-4	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville							
Alkalinity,Bicarbonate (CaCO3)	**18.0**	mg/L	5.0	1		02/02/24 17:30		
Alkalinity, Total as CaCO3	**18.0**	mg/L	5.0	1		02/02/24 17:30		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville							
Total Dissolved Solids	**100**	mg/L	25.0	1		02/01/24 22:11		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville							
Chloride	**2.8**	mg/L	1.0	1		02/02/24 10:03	16887-00-6	
Fluoride	ND	mg/L	0.10	1		02/02/24 10:03	16984-48-8	
Sulfate	**2.0**	mg/L	1.0	1		02/02/24 10:03	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Branch-CCR Ash Pond
Pace Project No.: 92711030

Sample: BRA-LR+8A(surface) **Lab ID: 92711030007** Collected: 01/31/24 11:10 Received: 01/31/24 15:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Boron	ND	mg/L	0.040	1	02/01/24 14:56	02/05/24 00:54	7440-42-8	
Calcium	**4.0**	mg/L	1.0	1	02/01/24 14:56	02/05/24 00:54	7440-70-2	
Magnesium	**2.0**	mg/L	0.050	1	02/01/24 14:56	02/05/24 00:54	7439-95-4	
Potassium	**3.0**	mg/L	0.50	1	02/01/24 14:56	02/05/24 15:30	7440-09-7	
Sodium	**3.7**	mg/L	1.0	1	02/01/24 14:56	02/05/24 15:30	7440-23-5	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Cobalt	ND	mg/L	0.0050	1	02/01/24 10:00	02/01/24 16:50	7440-48-4	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville							
Alkalinity,Bicarbonate (CaCO3)	**20.6**	mg/L	5.0	1		02/02/24 17:36		
Alkalinity, Total as CaCO3	**20.6**	mg/L	5.0	1		02/02/24 17:36		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville							
Total Dissolved Solids	**94.0**	mg/L	25.0	1		02/01/24 22:12		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville							
Chloride	**2.8**	mg/L	1.0	1		02/01/24 06:15	16887-00-6	
Fluoride	ND	mg/L	0.10	1		02/01/24 06:15	16984-48-8	
Sulfate	**2.8**	mg/L	1.0	1		02/01/24 06:15	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Branch-CCR Ash Pond
Pace Project No.: 92711030

Sample: BRA-LR+9(bottom) **Lab ID: 92711030008** Collected: 01/31/24 10:50 Received: 01/31/24 15:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Boron	ND	mg/L	0.040	1	02/01/24 14:56	02/05/24 00:59	7440-42-8	
Calcium	**3.6**	mg/L	1.0	1	02/01/24 14:56	02/05/24 00:59	7440-70-2	
Magnesium	**1.9**	mg/L	0.050	1	02/01/24 14:56	02/05/24 00:59	7439-95-4	
Potassium	**3.0**	mg/L	0.50	1	02/01/24 14:56	02/05/24 16:01	7440-09-7	
Sodium	**3.7**	mg/L	1.0	1	02/01/24 14:56	02/05/24 16:01	7440-23-5	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Cobalt	ND	mg/L	0.0050	1	02/01/24 10:00	02/01/24 16:54	7440-48-4	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville							
Alkalinity,Bicarbonate (CaCO3)	**17.6**	mg/L	5.0	1		02/02/24 17:42		
Alkalinity, Total as CaCO3	**17.6**	mg/L	5.0	1		02/02/24 17:42		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville							
Total Dissolved Solids	**96.0**	mg/L	25.0	1		02/01/24 22:12		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville							
Chloride	**2.8**	mg/L	1.0	1		02/01/24 06:29	16887-00-6	
Fluoride	ND	mg/L	0.10	1		02/01/24 06:29	16984-48-8	
Sulfate	**2.1**	mg/L	1.0	1		02/01/24 06:29	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Branch-CCR Ash Pond
Pace Project No.: 92711030

Sample: BRA-LR+9(mid) **Lab ID: 92711030009** Collected: 01/31/24 10:45 Received: 01/31/24 15:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Boron	ND	mg/L	0.040	1	02/01/24 14:56	02/05/24 01:04	7440-42-8	
Calcium	**3.8**	mg/L	1.0	1	02/01/24 14:56	02/05/24 01:04	7440-70-2	
Magnesium	**2.0**	mg/L	0.050	1	02/01/24 14:56	02/05/24 01:04	7439-95-4	
Potassium	**3.1**	mg/L	0.50	1	02/01/24 14:56	02/05/24 16:06	7440-09-7	
Sodium	**3.8**	mg/L	1.0	1	02/01/24 14:56	02/05/24 16:06	7440-23-5	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Cobalt	ND	mg/L	0.0050	1	02/01/24 10:00	02/01/24 16:57	7440-48-4	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville							
Alkalinity,Bicarbonate (CaCO3)	**17.1**	mg/L	5.0	1		02/02/24 18:00		
Alkalinity, Total as CaCO3	**17.1**	mg/L	5.0	1		02/02/24 18:00		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville							
Total Dissolved Solids	**95.0**	mg/L	25.0	1		02/01/24 22:12		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville							
Chloride	**2.8**	mg/L	1.0	1		02/01/24 07:12	16887-00-6	
Fluoride	ND	mg/L	0.10	1		02/01/24 07:12	16984-48-8	
Sulfate	**2.0**	mg/L	1.0	1		02/01/24 07:12	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Branch-CCR Ash Pond
Pace Project No.: 92711030

Sample: BRA-LR+9(surface) **Lab ID: 92711030010** Collected: 01/31/24 10:40 Received: 01/31/24 15:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Boron	ND	mg/L	0.040	1	02/01/24 14:56	02/05/24 01:09	7440-42-8	
Calcium	**3.6**	mg/L	1.0	1	02/01/24 14:56	02/05/24 01:09	7440-70-2	
Magnesium	**1.9**	mg/L	0.050	1	02/01/24 14:56	02/05/24 01:09	7439-95-4	
Potassium	**3.0**	mg/L	0.50	1	02/01/24 14:56	02/05/24 16:10	7440-09-7	
Sodium	**3.6**	mg/L	1.0	1	02/01/24 14:56	02/05/24 16:10	7440-23-5	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Cobalt	ND	mg/L	0.0050	1	02/01/24 10:00	02/01/24 17:01	7440-48-4	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville							
Alkalinity,Bicarbonate (CaCO3)	**17.9**	mg/L	5.0	1		02/05/24 12:37		
Alkalinity, Total as CaCO3	**17.9**	mg/L	5.0	1		02/05/24 12:37		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville							
Total Dissolved Solids	**97.0**	mg/L	25.0	1		02/01/24 22:12		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville							
Chloride	**2.8**	mg/L	1.0	1		02/01/24 07:27	16887-00-6	
Fluoride	ND	mg/L	0.10	1		02/01/24 07:27	16984-48-8	
Sulfate	**2.1**	mg/L	1.0	1		02/01/24 07:27	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Branch-CCR Ash Pond
Pace Project No.: 92711030

Sample: BRA-LR+9A(surface) **Lab ID: 92711030011** Collected: 01/31/24 11:00 Received: 01/31/24 15:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Boron	ND	mg/L	0.040	1	02/01/24 14:56	02/05/24 01:13	7440-42-8	
Calcium	**3.7**	mg/L	1.0	1	02/01/24 14:56	02/05/24 01:13	7440-70-2	
Magnesium	**2.0**	mg/L	0.050	1	02/01/24 14:56	02/05/24 01:13	7439-95-4	
Potassium	**3.1**	mg/L	0.50	1	02/01/24 14:56	02/05/24 16:15	7440-09-7	
Sodium	**3.7**	mg/L	1.0	1	02/01/24 14:56	02/05/24 16:15	7440-23-5	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Cobalt	ND	mg/L	0.0050	1	02/01/24 10:00	02/01/24 17:05	7440-48-4	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville							
Alkalinity,Bicarbonate (CaCO3)	**17.5**	mg/L	5.0	1		02/05/24 12:55		
Alkalinity, Total as CaCO3	**17.5**	mg/L	5.0	1		02/05/24 12:55		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville							
Total Dissolved Solids	**96.0**	mg/L	25.0	1		02/01/24 22:12		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville							
Chloride	**2.8**	mg/L	1.0	1		02/01/24 07:41	16887-00-6	
Fluoride	ND	mg/L	0.10	1		02/01/24 07:41	16984-48-8	
Sulfate	**2.4**	mg/L	1.0	1		02/01/24 07:41	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Branch-CCR Ash Pond
Pace Project No.: 92711030

Sample: BRA-LR-1(bottom) **Lab ID: 92711030012** Collected: 01/31/24 11:50 Received: 01/31/24 15:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Boron	ND	mg/L	0.040	1	02/01/24 14:56	02/05/24 01:18	7440-42-8	
Calcium	**3.8**	mg/L	1.0	1	02/01/24 14:56	02/05/24 01:18	7440-70-2	
Magnesium	**2.0**	mg/L	0.050	1	02/01/24 14:56	02/05/24 01:18	7439-95-4	
Potassium	**2.8**	mg/L	0.50	1	02/01/24 14:56	02/05/24 16:20	7440-09-7	
Sodium	**3.9**	mg/L	1.0	1	02/01/24 14:56	02/05/24 16:20	7440-23-5	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Cobalt	ND	mg/L	0.0050	1	02/01/24 10:00	02/01/24 17:09	7440-48-4	
Selenium	ND	mg/L	0.0050	1	02/01/24 10:00	02/01/24 17:09	7782-49-2	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville							
Alkalinity,Bicarbonate (CaCO3)	**20.8**	mg/L	5.0	1		02/05/24 13:13		
Alkalinity, Total as CaCO3	**20.8**	mg/L	5.0	1		02/05/24 13:13		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville							
Total Dissolved Solids	**89.0**	mg/L	25.0	1		02/01/24 22:19		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville							
Chloride	**3.1**	mg/L	1.0	1		02/01/24 07:55	16887-00-6	
Fluoride	ND	mg/L	0.10	1		02/01/24 07:55	16984-48-8	
Sulfate	**2.1**	mg/L	1.0	1		02/01/24 07:55	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Branch-CCR Ash Pond
Pace Project No.: 92711030

Sample: BRA-LR-1(mid) **Lab ID: 92711030013** Collected: 01/31/24 11:45 Received: 01/31/24 15:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Boron	ND	mg/L	0.040	1	02/01/24 14:56	02/05/24 01:23	7440-42-8	
Calcium	**3.9**	mg/L	1.0	1	02/01/24 14:56	02/05/24 01:23	7440-70-2	
Magnesium	**2.0**	mg/L	0.050	1	02/01/24 14:56	02/05/24 01:23	7439-95-4	
Potassium	**2.8**	mg/L	0.50	1	02/01/24 14:56	02/05/24 16:25	7440-09-7	
Sodium	**4.0**	mg/L	1.0	1	02/01/24 14:56	02/05/24 16:25	7440-23-5	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Cobalt	ND	mg/L	0.0050	1	02/01/24 10:00	02/01/24 17:22	7440-48-4	
Selenium	ND	mg/L	0.0050	1	02/01/24 10:00	02/01/24 17:22	7782-49-2	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville							
Alkalinity,Bicarbonate (CaCO3)	**21.9**	mg/L	5.0	1		02/05/24 13:29		
Alkalinity, Total as CaCO3	**21.9**	mg/L	5.0	1		02/05/24 13:29		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville							
Total Dissolved Solids	**94.0**	mg/L	25.0	1		02/03/24 00:18		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville							
Chloride	**3.0**	mg/L	1.0	1		02/01/24 08:10	16887-00-6	
Fluoride	ND	mg/L	0.10	1		02/01/24 08:10	16984-48-8	
Sulfate	**2.1**	mg/L	1.0	1		02/01/24 08:10	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Branch-CCR Ash Pond
Pace Project No.: 92711030

Sample: BRA-LR-1(surface) **Lab ID: 92711030014** Collected: 01/31/24 11:40 Received: 01/31/24 15:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Potassium	**2.7**	mg/L	0.50	1	02/01/24 14:56	02/05/24 16:29	7440-09-7	
Sodium	**3.9**	mg/L	1.0	1	02/01/24 14:56	02/05/24 16:29	7440-23-5	
Boron	ND	mg/L	0.040	1	02/01/24 14:56	02/05/24 01:28	7440-42-8	
Calcium	**3.8**	mg/L	1.0	1	02/01/24 14:56	02/05/24 01:28	7440-70-2	
Magnesium	**2.0**	mg/L	0.050	1	02/01/24 14:56	02/05/24 01:28	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Cobalt	ND	mg/L	0.0050	1	02/01/24 10:00	02/01/24 17:25	7440-48-4	
Selenium	ND	mg/L	0.0050	1	02/01/24 10:00	02/01/24 17:25	7782-49-2	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville							
Alkalinity,Bicarbonate (CaCO3)	**20.7**	mg/L	5.0	1		02/05/24 13:35		
Alkalinity, Total as CaCO3	**20.7**	mg/L	5.0	1		02/05/24 13:35		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville							
Total Dissolved Solids	**91.0**	mg/L	25.0	1		02/03/24 00:18		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville							
Chloride	**3.0**	mg/L	1.0	1		02/01/24 08:24	16887-00-6	
Fluoride	ND	mg/L	0.10	1		02/01/24 08:24	16984-48-8	
Sulfate	**2.1**	mg/L	1.0	1		02/01/24 08:24	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Branch-CCR Ash Pond
Pace Project No.: 92711030

Sample: BRA-LS+3(mid) **Lab ID: 92711030015** Collected: 01/31/24 12:15 Received: 01/31/24 15:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Potassium	**2.8**	mg/L	0.50	1	02/01/24 14:56	02/05/24 16:34	7440-09-7	
Sodium	**4.0**	mg/L	1.0	1	02/01/24 14:56	02/05/24 16:34	7440-23-5	
Boron	ND	mg/L	0.040	1	02/01/24 14:56	02/05/24 01:33	7440-42-8	
Calcium	**4.0**	mg/L	1.0	1	02/01/24 14:56	02/05/24 01:33	7440-70-2	
Magnesium	**2.1**	mg/L	0.050	1	02/01/24 14:56	02/05/24 01:33	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Selenium	ND	mg/L	0.0050	1	02/01/24 10:00	02/01/24 17:29	7782-49-2	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville							
Alkalinity,Bicarbonate (CaCO3)	**20.9**	mg/L	5.0	1		02/05/24 13:41		
Alkalinity, Total as CaCO3	**20.9**	mg/L	5.0	1		02/05/24 13:41		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville							
Total Dissolved Solids	**90.0**	mg/L	25.0	1		02/03/24 00:18		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville							
Chloride	**3.0**	mg/L	1.0	1		02/01/24 09:07	16887-00-6	
Fluoride	ND	mg/L	0.10	1		02/01/24 09:07	16984-48-8	
Sulfate	**3.4**	mg/L	1.0	1		02/01/24 09:07	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Branch-CCR Ash Pond
Pace Project No.: 92711030

Sample: BRA-LS+3(surface) **Lab ID: 92711030016** Collected: 01/31/24 12:10 Received: 01/31/24 15:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Boron	ND	mg/L	0.040	1	02/01/24 14:56	02/05/24 01:47	7440-42-8	
Sodium	**4.1**	mg/L	1.0	1	02/01/24 14:56	02/05/24 01:47	7440-23-5	
Calcium	**4.2**	mg/L	1.0	1	02/01/24 14:56	02/05/24 01:47	7440-70-2	
Magnesium	**2.3**	mg/L	0.050	1	02/01/24 14:56	02/05/24 01:47	7439-95-4	
Potassium	**3.0**	mg/L	0.50	1	02/01/24 14:56	02/05/24 16:39	7440-09-7	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Selenium	ND	mg/L	0.0050	1	02/01/24 10:00	02/01/24 17:33	7782-49-2	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville							
Alkalinity,Bicarbonate (CaCO3)	**21.0**	mg/L	5.0	1		02/05/24 13:47		
Alkalinity, Total as CaCO3	**21.0**	mg/L	5.0	1		02/05/24 13:47		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville							
Total Dissolved Solids	**98.0**	mg/L	25.0	1		02/03/24 00:18		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville							
Chloride	**3.0**	mg/L	1.0	1		02/01/24 10:18	16887-00-6	
Fluoride	ND	mg/L	0.10	1		02/01/24 10:18	16984-48-8	
Sulfate	**3.3**	mg/L	1.0	1		02/01/24 10:18	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Branch-CCR Ash Pond
Pace Project No.: 92711030

Sample: BRA-LS+3A(surface) **Lab ID: 92711030017** Collected: 01/31/24 12:05 Received: 01/31/24 15:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Boron	ND	mg/L	0.040	1	02/01/24 14:56	02/05/24 01:52	7440-42-8	
Sodium	**3.8**	mg/L	1.0	1	02/01/24 14:56	02/05/24 01:52	7440-23-5	
Calcium	**3.9**	mg/L	1.0	1	02/01/24 14:56	02/05/24 01:52	7440-70-2	
Magnesium	**2.1**	mg/L	0.050	1	02/01/24 14:56	02/05/24 01:52	7439-95-4	
Potassium	**2.8**	mg/L	0.50	1	02/01/24 14:56	02/05/24 16:44	7440-09-7	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Selenium	ND	mg/L	0.0050	1	02/01/24 10:00	02/01/24 17:37	7782-49-2	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville							
Alkalinity,Bicarbonate (CaCO3)	**21.5**	mg/L	5.0	1		02/05/24 13:53		
Alkalinity, Total as CaCO3	**21.5**	mg/L	5.0	1		02/05/24 13:53		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville							
Total Dissolved Solids	**90.0**	mg/L	25.0	1		02/03/24 00:21		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville							
Chloride	**3.0**	mg/L	1.0	1		02/01/24 10:33	16887-00-6	
Fluoride	ND	mg/L	0.10	1		02/01/24 10:33	16984-48-8	
Sulfate	**3.0**	mg/L	1.0	1		02/01/24 10:33	14808-79-8	

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QUALITY CONTROL DATA

Project: Plant Branch-CCR Ash Pond
Pace Project No.: 92711030

QC Batch: 829487
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92711030001, 92711030002, 92711030003, 92711030004, 92711030005, 92711030006, 92711030007, 92711030008, 92711030009, 92711030010, 92711030011, 92711030012, 92711030013, 92711030014, 92711030015, 92711030016, 92711030017

METHOD BLANK: 4287304 Matrix: Water
Associated Lab Samples: 92711030001, 92711030002, 92711030003, 92711030004, 92711030005, 92711030006, 92711030007, 92711030008, 92711030009, 92711030010, 92711030011, 92711030012, 92711030013, 92711030014, 92711030015, 92711030016, 92711030017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron	mg/L	ND	0.040	02/04/24 23:52	
Calcium	mg/L	ND	1.0	02/04/24 23:52	
Magnesium	mg/L	ND	0.050	02/04/24 23:52	
Potassium	mg/L	ND	0.50	02/04/24 23:52	
Sodium	mg/L	ND	1.0	02/04/24 23:52	

LABORATORY CONTROL SAMPLE: 4287305

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	1	0.98	98	80-120	
Calcium	mg/L	1	.94J	94	80-120	
Magnesium	mg/L	1	1.1	106	80-120	
Potassium	mg/L	1	1.0	103	80-120	
Sodium	mg/L	1	1.1	107	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4287306 4287307

Parameter	Units	92711030006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	mg/L	ND	1	1	0.99	0.99	98	97	75-125	0	20	
Calcium	mg/L	3.8	1	1	4.7	4.8	89	100	75-125	2	20	
Magnesium	mg/L	1.9	1	1	3.0	3.1	110	115	75-125	2	20	
Potassium	mg/L	3.0	1	1	4.1	4.1	109	118	75-125	2	20	
Sodium	mg/L	3.7	1	1	4.7	4.8	101	114	75-125	3	20	

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QUALITY CONTROL DATA

Project: Plant Branch-CCR Ash Pond
Pace Project No.: 92711030

QC Batch: 829340
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92711030001, 92711030002, 92711030003, 92711030004, 92711030005, 92711030006, 92711030007, 92711030008, 92711030009, 92711030010, 92711030011, 92711030012, 92711030013, 92711030014, 92711030015, 92711030016, 92711030017

METHOD BLANK: 4286699 Matrix: Water
Associated Lab Samples: 92711030001, 92711030002, 92711030003, 92711030004, 92711030005, 92711030006, 92711030007, 92711030008, 92711030009, 92711030010, 92711030011, 92711030012, 92711030013, 92711030014, 92711030015, 92711030016, 92711030017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cobalt	mg/L	ND	0.0050	02/01/24 15:47	
Selenium	mg/L	ND	0.0050	02/01/24 15:47	

LABORATORY CONTROL SAMPLE: 4286700

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cobalt	mg/L	0.1	0.10	100	80-120	
Selenium	mg/L	0.1	0.096	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4286701 4286702

Parameter	Units	92710831001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cobalt	mg/L	ND	0.1	0.1	0.11	0.10	105	100	75-125	5	20	
Selenium	mg/L	ND	0.1	0.1	0.10	0.096	99	94	75-125	5	20	

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QUALITY CONTROL DATA

Project: Plant Branch-CCR Ash Pond
Pace Project No.: 92711030

QC Batch: 829765
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92711030001, 92711030002, 92711030003, 92711030004, 92711030005, 92711030006, 92711030007, 92711030008, 92711030009

METHOD BLANK: 4288419 Matrix: Water
Associated Lab Samples: 92711030001, 92711030002, 92711030003, 92711030004, 92711030005, 92711030006, 92711030007, 92711030008, 92711030009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	02/02/24 15:36	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	02/02/24 15:36	

LABORATORY CONTROL SAMPLE: 4288420

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.3	101	80-120	

LABORATORY CONTROL SAMPLE: 4288421

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	53.0	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4288422 4288423

Parameter	Units	92711030008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	17.6	50	50	68.9	68.7	103	102	80-120	0	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4288424 4288425

Parameter	Units	92711030009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	17.1	50	50	68.6	68.3	103	102	80-120	0	25	

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QUALITY CONTROL DATA

Project: Plant Branch-CCR Ash Pond
Pace Project No.: 92711030

QC Batch: 830057
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92711030010, 92711030011, 92711030012, 92711030013, 92711030014, 92711030015, 92711030016, 92711030017

METHOD BLANK: 4289992 Matrix: Water
Associated Lab Samples: 92711030010, 92711030011, 92711030012, 92711030013, 92711030014, 92711030015, 92711030016, 92711030017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	02/05/24 12:18	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	02/05/24 12:18	

LABORATORY CONTROL SAMPLE: 4289993

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.4	103	80-120	

LABORATORY CONTROL SAMPLE: 4289994

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.4	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4289995 4289996

Parameter	Units	92711030010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	17.9	50	50	69.6	68.3	104	101	80-120	2	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4289997 4289998

Parameter	Units	92711030011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	17.5	50	50	70.1	68.5	105	102	80-120	2	25	

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REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Branch-CCR Ash Pond
Pace Project No.: 92711030

QC Batch: 829602
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92711030001, 92711030002, 92711030003, 92711030004, 92711030005, 92711030006, 92711030007, 92711030008, 92711030009, 92711030010, 92711030011, 92711030012

METHOD BLANK: 4287908 Matrix: Water
Associated Lab Samples: 92711030001, 92711030002, 92711030003, 92711030004, 92711030005, 92711030006, 92711030007, 92711030008, 92711030009, 92711030010, 92711030011, 92711030012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	02/01/24 22:11	

LABORATORY CONTROL SAMPLE: 4287909

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	251	248	99	90-110	

SAMPLE DUPLICATE: 4287923

Parameter	Units	92711297001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	28.0	28.0	0	25	

SAMPLE DUPLICATE: 4287924

Parameter	Units	92711297002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	25.0	29.0	15	25	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Branch-CCR Ash Pond
Pace Project No.: 92711030

QC Batch: 829879
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92711030013, 92711030014, 92711030015, 92711030016, 92711030017

METHOD BLANK: 4289436 Matrix: Water
Associated Lab Samples: 92711030013, 92711030014, 92711030015, 92711030016, 92711030017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	02/03/24 00:11	

LABORATORY CONTROL SAMPLE: 4289437

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	251	242	97	90-110	

SAMPLE DUPLICATE: 4289458

Parameter	Units	92711299001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	594	578	3	25	

SAMPLE DUPLICATE: 4289459

Parameter	Units	92711299002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	580	570	2	25	

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(770)734-4200

QUALITY CONTROL DATA

Project: Plant Branch-CCR Ash Pond
Pace Project No.: 92711030

QC Batch: 829249
QC Batch Method: EPA 9056A
Analysis Method: EPA 9056A
Analysis Description: 9056 IC anions 28 Days
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92711030001, 92711030002, 92711030003, 92711030004, 92711030005, 92711030006, 92711030007, 92711030008, 92711030009, 92711030010, 92711030011, 92711030012, 92711030013, 92711030014

METHOD BLANK: 4286354 Matrix: Water
Associated Lab Samples: 92711030001, 92711030002, 92711030003, 92711030004, 92711030005, 92711030006, 92711030007, 92711030008, 92711030009, 92711030010, 92711030011, 92711030012, 92711030013, 92711030014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	02/01/24 01:29	
Fluoride	mg/L	ND	0.10	02/01/24 01:29	
Sulfate	mg/L	ND	1.0	02/01/24 01:29	

LABORATORY CONTROL SAMPLE: 4286355

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.9	102	90-110	
Fluoride	mg/L	2.5	2.5	99	90-110	
Sulfate	mg/L	50	51.0	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4286356 4286357

Parameter	Units	92710848001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	49.6	50	50	93.8	95.1	88	91	90-110	1	10	M1
Fluoride	mg/L	0.31	2.5	2.5	2.7	2.8	95	98	90-110	3	10	
Sulfate	mg/L	31.1	50	50	82.4	83.7	103	105	90-110	2	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4286358 4286359

Parameter	Units	92711030005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	2.8	50	50	54.6	55.8	104	106	90-110	2	10	
Fluoride	mg/L	ND	2.5	2.5	2.4	2.5	94	97	90-110	3	10	
Sulfate	mg/L	2.1	50	50	53.9	71.2	104	138	90-110	28	10	M1,R1

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(770)734-4200

QUALITY CONTROL DATA

Project: Plant Branch-CCR Ash Pond
Pace Project No.: 92711030

QC Batch: 829285
QC Batch Method: EPA 9056A
Analysis Method: EPA 9056A
Analysis Description: 9056 IC anions 28 Days
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92711030015, 92711030016, 92711030017

METHOD BLANK: 4286566 Matrix: Water
Associated Lab Samples: 92711030015, 92711030016, 92711030017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	02/01/24 08:38	
Fluoride	mg/L	ND	0.10	02/01/24 08:38	
Sulfate	mg/L	ND	1.0	02/01/24 08:38	

LABORATORY CONTROL SAMPLE: 4286567

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	51.2	102	90-110	
Fluoride	mg/L	2.5	2.4	98	90-110	
Sulfate	mg/L	50	51.3	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4286568 4286569

Parameter	Units	92711030015 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	3.0	50	50	54.4	55.2	103	104	90-110	1	10	
Fluoride	mg/L	ND	2.5	2.5	2.4	2.5	93	96	90-110	3	10	
Sulfate	mg/L	3.4	50	50	54.7	55.7	103	105	90-110	2	10	

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REPORT OF LABORATORY ANALYSIS

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Peachtree Corners, GA 30092
(770)734-4200

QUALIFIERS

Project: Plant Branch-CCR Ash Pond
Pace Project No.: 92711030

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
R1	RPD value was outside control limits.

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110 Technology Parkway
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Branch-CCR Ash Pond
Pace Project No.: 92711030

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92711030001	**BRA-LR+10(bottom)**	EPA 3010A	829487	EPA 6010D	829570
92711030002	**BRA-LR+10(mid)**	EPA 3010A	829487	EPA 6010D	829570
92711030003	**BRA-LR+10(surface)**	EPA 3010A	829487	EPA 6010D	829570
92711030004	**BRA-LR+8(bottom)**	EPA 3010A	829487	EPA 6010D	829570
92711030005	**BRA-LR+8(mid)**	EPA 3010A	829487	EPA 6010D	829570
92711030006	**BRA-LR+8(surface)**	EPA 3010A	829487	EPA 6010D	829570
92711030007	**BRA-LR+8A(surface)**	EPA 3010A	829487	EPA 6010D	829570
92711030008	**BRA-LR+9(bottom)**	EPA 3010A	829487	EPA 6010D	829570
92711030009	**BRA-LR+9(mid)**	EPA 3010A	829487	EPA 6010D	829570
92711030010	**BRA-LR+9(surface)**	EPA 3010A	829487	EPA 6010D	829570
92711030011	**BRA-LR+9A(surface)**	EPA 3010A	829487	EPA 6010D	829570
92711030012	**BRA-LR-1(bottom)**	EPA 3010A	829487	EPA 6010D	829570
92711030013	**BRA-LR-1(mid)**	EPA 3010A	829487	EPA 6010D	829570
92711030014	**BRA-LR-1(surface)**	EPA 3010A	829487	EPA 6010D	829570
92711030015	**BRA-LS+3(mid)**	EPA 3010A	829487	EPA 6010D	829570
92711030016	**BRA-LS+3(surface)**	EPA 3010A	829487	EPA 6010D	829570
92711030017	**BRA-LS+3A(surface)**	EPA 3010A	829487	EPA 6010D	829570
92711030001	**BRA-LR+10(bottom)**	EPA 3005A	829340	EPA 6020B	829501
92711030002	**BRA-LR+10(mid)**	EPA 3005A	829340	EPA 6020B	829501
92711030003	**BRA-LR+10(surface)**	EPA 3005A	829340	EPA 6020B	829501
92711030004	**BRA-LR+8(bottom)**	EPA 3005A	829340	EPA 6020B	829501
92711030005	**BRA-LR+8(mid)**	EPA 3005A	829340	EPA 6020B	829501
92711030006	**BRA-LR+8(surface)**	EPA 3005A	829340	EPA 6020B	829501
92711030007	**BRA-LR+8A(surface)**	EPA 3005A	829340	EPA 6020B	829501
92711030008	**BRA-LR+9(bottom)**	EPA 3005A	829340	EPA 6020B	829501
92711030009	**BRA-LR+9(mid)**	EPA 3005A	829340	EPA 6020B	829501
92711030010	**BRA-LR+9(surface)**	EPA 3005A	829340	EPA 6020B	829501
92711030011	**BRA-LR+9A(surface)**	EPA 3005A	829340	EPA 6020B	829501
92711030012	**BRA-LR-1(bottom)**	EPA 3005A	829340	EPA 6020B	829501
92711030013	**BRA-LR-1(mid)**	EPA 3005A	829340	EPA 6020B	829501
92711030014	**BRA-LR-1(surface)**	EPA 3005A	829340	EPA 6020B	829501
92711030015	**BRA-LS+3(mid)**	EPA 3005A	829340	EPA 6020B	829501
92711030016	**BRA-LS+3(surface)**	EPA 3005A	829340	EPA 6020B	829501
92711030017	**BRA-LS+3A(surface)**	EPA 3005A	829340	EPA 6020B	829501
92711030001	**BRA-LR+10(bottom)**	SM 2320B-2011	829765		
92711030002	**BRA-LR+10(mid)**	SM 2320B-2011	829765		
92711030003	**BRA-LR+10(surface)**	SM 2320B-2011	829765		
92711030004	**BRA-LR+8(bottom)**	SM 2320B-2011	829765		
92711030005	**BRA-LR+8(mid)**	SM 2320B-2011	829765		
92711030006	**BRA-LR+8(surface)**	SM 2320B-2011	829765		
92711030007	**BRA-LR+8A(surface)**	SM 2320B-2011	829765		
92711030008	**BRA-LR+9(bottom)**	SM 2320B-2011	829765		
92711030009	**BRA-LR+9(mid)**	SM 2320B-2011	829765		
92711030010	**BRA-LR+9(surface)**	SM 2320B-2011	830057		
92711030011	**BRA-LR+9A(surface)**	SM 2320B-2011	830057		
92711030012	**BRA-LR-1(bottom)**	SM 2320B-2011	830057		
92711030013	**BRA-LR-1(mid)**	SM 2320B-2011	830057		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Branch-CCR Ash Pond
Pace Project No.: 92711030

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92711030014	**BRA-LR-1(surface)**	SM 2320B-2011	830057		
92711030015	**BRA-LS+3(mid)**	SM 2320B-2011	830057		
92711030016	**BRA-LS+3(surface)**	SM 2320B-2011	830057		
92711030017	**BRA-LS+3A(surface)**	SM 2320B-2011	830057		
92711030001	**BRA-LR+10(bottom)**	SM 2540C-2015	829602		
92711030002	**BRA-LR+10(mid)**	SM 2540C-2015	829602		
92711030003	**BRA-LR+10(surface)**	SM 2540C-2015	829602		
92711030004	**BRA-LR+8(bottom)**	SM 2540C-2015	829602		
92711030005	**BRA-LR+8(mid)**	SM 2540C-2015	829602		
92711030006	**BRA-LR+8(surface)**	SM 2540C-2015	829602		
92711030007	**BRA-LR+8A(surface)**	SM 2540C-2015	829602		
92711030008	**BRA-LR+9(bottom)**	SM 2540C-2015	829602		
92711030009	**BRA-LR+9(mid)**	SM 2540C-2015	829602		
92711030010	**BRA-LR+9(surface)**	SM 2540C-2015	829602		
92711030011	**BRA-LR+9A(surface)**	SM 2540C-2015	829602		
92711030012	**BRA-LR-1(bottom)**	SM 2540C-2015	829602		
92711030013	**BRA-LR-1(mid)**	SM 2540C-2015	829879		
92711030014	**BRA-LR-1(surface)**	SM 2540C-2015	829879		
92711030015	**BRA-LS+3(mid)**	SM 2540C-2015	829879		
92711030016	**BRA-LS+3(surface)**	SM 2540C-2015	829879		
92711030017	**BRA-LS+3A(surface)**	SM 2540C-2015	829879		
92711030001	**BRA-LR+10(bottom)**	EPA 9056A	829249		
92711030002	**BRA-LR+10(mid)**	EPA 9056A	829249		
92711030003	**BRA-LR+10(surface)**	EPA 9056A	829249		
92711030004	**BRA-LR+8(bottom)**	EPA 9056A	829249		
92711030005	**BRA-LR+8(mid)**	EPA 9056A	829249		
92711030006	**BRA-LR+8(surface)**	EPA 9056A	829249		
92711030007	**BRA-LR+8A(surface)**	EPA 9056A	829249		
92711030008	**BRA-LR+9(bottom)**	EPA 9056A	829249		
92711030009	**BRA-LR+9(mid)**	EPA 9056A	829249		
92711030010	**BRA-LR+9(surface)**	EPA 9056A	829249		
92711030011	**BRA-LR+9A(surface)**	EPA 9056A	829249		
92711030012	**BRA-LR-1(bottom)**	EPA 9056A	829249		
92711030013	**BRA-LR-1(mid)**	EPA 9056A	829249		
92711030014	**BRA-LR-1(surface)**	EPA 9056A	829249		
92711030015	**BRA-LS+3(mid)**	EPA 9056A	829285		
92711030016	**BRA-LS+3(surface)**	EPA 9056A	829285		
92711030017	**BRA-LS+3A(surface)**	EPA 9056A	829285		

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Pace® Location Requested (City/State):
Pace Analytical Peachtree Corners
110 Technology Pkwy, Peachtree Corners, GA 30092

CHAIN-OF-CUSTODY Analytical Request Document

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WO# : 92711030

92711030

Company Name:	ARCADIS - Atlanta	Contact/Report To:	Johnson, Warren
Street Address:	2839 Paces Ferry Rd SE, Atlanta, GA 30339	Phone #:	(678)185-5298
		E-Mail:	warren.johnson@arcadis.com
		Cc E-Mail:	Ben Hodges and Jaju Abraham
Customer Project #:			
Project Name:	Plant Branchy/CCR-Ash Pond Closure	Invoice To:	Jaju Abraham
		Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	GPC 82474-0005
		Quote #:	
Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [ ] ET		County / State origin of sample(s):	Georgia

Data Deliverables: [ ] Level II [ ] Level III [ ] Level IV [ ] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [ ] No

Rush (Pre-approval required): [ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ ] Other _____

Dw PWSID # or WW Permit # as applicable:

Done Results Requested:

Field Filtered (if applicable): [ ] Yes [ ] No

Analysis:

Specify Container size*: 2 3 2

Identify Container Preservative Type***: 1 2

Analysis Requested

Lab Use Only: Proj. Mgr: Mahya Parks; Accutrem / Client ID:; Table #:; Profile / Template: 12769; Prelog / Bottle Ord. ID: 1165386

Preservation non-conformance identified for samples.

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Biosolid (BS), Vapor (V), Surface Water (SW) Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LE), Bioassay (BI), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Composite Start Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Res. Chlorine Results	Res. Chlorine Units	Alkalinity (Total/Bicarb), Cl, F, SO4	App. IIIA/IV Metals + Boron	TDS	Cobalt (Co)	Selenium (Se)	Sample Comment
BRA-LR+10 (bottom)	WT	G	1/31/24	1030			3			X	X	X	X	X	
BRA-LR+10 (mid)	WT	G	1/31/24	1025			3			X	X	X	X	X	
BRA-LR+10 (surface)	WT	G	1/31/24	1014			3			X	X	X	X	X	
BRA-LR+8 (bottom)	WT	G	1/31/24	1125			3			X	X	X	X		
BRA-LR+8 (mid)	WT	G	1/31/24	1120			3			X	X	X	X		
BRA-LR+8 (surface)	WT	G	1/31/24	1115			3			X	X	X	X		
BRA-LR+8A (surface)	WT	G	1/31/24	1110			3			X	X	X	X		
BRA-LR+9 (bottom)	WT	G	1/31/24	1050			3			X	X	X	X		
BRA-LR+9 (mid)	WT	G	1/31/24	1045			3			X	X	X	X		
BRA-LR+9 (surface)	WT	G	1/31/24	1040			3			X	X	X	X		

Additional Instructions from Pace®:

Collected By (Printed Name): Perry Studebaker

Signature: Perry Studebaker

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:

Relinquished by/Company: (Signature) Perry Studebaker/Arcadis	Date/Time: 1/31/24 1525	Received by/Company: (Signature) /Pace	Date/Time: 1/2/24 1525	Tracking Number:	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Delivered by: [ ] In-Person [ ] Courier [ ] FedEX [ ] UPS [ ] Other	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:		
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: 1 of 2	

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

Pace® Location Requested (City/State):
Pace Analytical Peachtree Corners
110 Technology Pkwy, Peachtree Corners, GA 30092

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

WO#: 92711030

PM: MP **Due Date: 02/08/24**

CLIENT: GA-ArcadAll

Company Name:	ARCADIS - Atlanta	Contact/Report To:	Johnson, Warren
Street Address:	2839 Paces Ferry Rd SE, Atlanta, GA 30339	Phone #:	(678)485-5296
		E-Mail:	warren.johnson@arcadis.com
		Cc E-Mail:	Ben Hodges and Jojin Abraham
Customer Project #:			
Project Name:	Plant Branch/CCR-Ash Pond Closure	Invoice To:	Jojin Abraham
		Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	GPC 82474-0005
		Quote #:	
Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [ ] ET		County / State origin of sample(s):	Georgia

Data Deliverables: [ ] Level II [ ] Level III [ ] Level IV [ ] EQUIS [ ] Other

Regulatory Program (DW, NCRA, etc.) as applicable: Reportable [ ] Yes [ ] No

Rush (Pre-approval required): [ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ ] Other _____

DW PWSID # or WW Permit # as applicable:

Date Results Requested:

Field Filtered (if applicable): [ ] Yes [ ] No

Analysis:

Specify Container Size **: 1 3 2

Identify Container Preservative Type***: 1 2 1

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other

*** Preservative Type: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Analysis Requested

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Composite Start Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Res. Chlorine Results	Res. Chlorine Units	Alkalinity (Total/Bicarb), Cl, F, SO4	App. III/IV Metals - Soils	TDS	Cobalt (Co)	Selenium (Se)	Lab Use Only	Sample Comment	Preservation non-conformance Remarked for sample
BRA-LR+9A (surface)	WT	G	1/31/24	1100			3			X	X	X	X				
BRA-LR-1 (bottom)	WT	G	1/31/24	1150			3			X	X	X	X	X			
BRA-LR-1 (mid)	WT	G	1/31/24	1145			3			X	X	X	X	X			
BRA-LR-1 (surface)	WT	G	1/31/24	1140			3			X	X	X	X	X			
BRA-LS+3 (mid)	WT	G	1/31/24	1215			3			X	X	X		X			
BRA-LS+3 (surface)	WT	G	1/31/24	1210			3			X	X	X		X			
BRA-LS+3A (surface)	WT	G	1/31/24	1205			3			X	X	X		X			

Lab Use Only: Proj. Mgr: Maiya Parks; Acctnum / Client ID:; Table #:; Profile / Template: 12769; Prelog / Bottle Ord. ID: 1165286

Additional Instructions from Pace®:

Collected By: (Printed Name) Perry Studebaker

Signature: Perry Studebaker

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:

Relinquished by/Company: (Signature) Amy Smith / Arcadis	Date/Time: 1/31/24 1525	Received by/Company: (Signature) Pace®	Date/Time: 1/31/24 1525	Tracking Number:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: 2 of 2

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at: https://www.pacelabs.com/resource-library/resources/pace-terms-and-conditions/

DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt

Effective Date: 11/29/2023

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Ariadis

Project #: WO#:92711030

PM: MP Due Date: 02/08/24

CLIENT: GA-AreadAtl

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Commercial ☐ Pace ☐ Other:

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No ☑ N/A

Date/Initials Person Examining Contents: 1/31/24 DH

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☐ N/A

Thermometer: ☐ IR Gun ID: 230

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 3.6 Correction Factor: Add/Subtract (°C) -0.1

Temp should be above freezing to 6°C

☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 3.7

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: W				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Project #

WO#: 92711030

PM: IP Due Date: 02/06/24

CLIENT: GA-Area4Nt1

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG8M-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9N-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1			2			1**																							
2			2			1**																							
3			2			1**																							
4			2			1**																							
5			2			1**																							
6			2			1**																							
7			2			1**																							
8			2			1**																							
9			2			1**																							
10			2			1**																							
11			2			1**																							
12			2			1**																							

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

WO#: 92711030

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

Project #

PM: IP Due Date: 02/08/24
CLIENT: GA-AreaRAL1

**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP2N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG84-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA NaS2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	WP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1			2			1 ✓																							
2			2			1 ✓																							
3			2			1 ✓																							
4			2			1 ✓																							
5			2			1 ✓																							
6																													
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12																													

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Geosyntec consultants

180A Market Place Boulevard
Knoxville, TN 37922
PH 865.330.0037
www.geosyntec.com

Memorandum

Date:	20 May 2024
To:	Courtney Collins
From:	Ashley Wilson
CC:	K. Henderson
Subject:	**Stage 2A Data Validation - Level II Data Deliverables – GEL Laboratories, LLC Work Orders 653909, 653853, 653582, 653570, 653855 and 653575**

SITE: Plant Branch CCR Groundwater Compliance Semiannual Monitoring AP-BCD and AP-E

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of thirty-eight groundwater samples, five equipment blanks, five field blanks and five field duplicate samples collected 30 January – 1 February 2024, as part of the Plant Branch on-site sampling event.

The samples were analyzed at GEL Laboratories LLC, Charleston, SC, for the following analytical tests:

- Total and Dissolved Metals by United States (US) Environmental Protection Agency (EPA) Methods 3005A/6020B
- Mercury by US EPA Method 7470A
- Anions (Nitrate-Nitrogen (N), Chloride, Fluoride and Sulfate) by US EPA Method 300.0
- Total Dissolved Solids (TDS) by Standard Method (SM) 2540C
- Total Sulfide by SM 4500-S2-D
- Alkalinity by SM 2320B

EXECUTIVE SUMMARY

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below and based on the information provided, the data as qualified are usable for supporting project objectives. The qualified data should be used within the limitations of the qualifications. If there are results with two or more different qualifications due to multiple QC failures, the final qualification is reconciled in the electronic data deliverable (EDD) with qualifications.

The data were reviewed based on the following documents, the pertinent methods referenced by the data package and professional and technical judgment:

- US EPA Region IV Data Validation Standard Operating Procedures (US EPA Region IV, September 2011); and
- USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review, November 2020 (EPA 542-R-20-006).

The following samples were analyzed and reported in the laboratory reports:

Laboratory IDs	Client IDs
653582001	BRA-BRGWC-32S
653582002	BRA-BRGWC-47
653582003	BRA-PZ-44
653582004	BRA-BRGWA-23S
653582005	BRA-BRGWC-30I
653582006	BRA-APBCD-FD-01
653853001	BRA-BRGWC-29I
653853002	BRA-BRGWC-25I
653853003	BRA-BRGWC-27I
653853004	BRA-APBCD-FB-01
653909001	BRA-PZ-50D
653909002	BRA-APBCD-EB-05
653909003	BRA-BRGWC-50
653909004	BRA-APBCD-FB-03
653909005	BRA-BRGWC-45
653909006	BRA-PZ-58I
653909007	BRA-PZ-60I
653909008	BRA-PZ-61I
653909009	BRA-PZ-51I
653909010	BRA-APBCD-FD-03
653909011	BRA-PZ-51D
653909012	BRA-APBCD-EB-04
653909013	BRA-BRGWC-52I
653909014	BRA-PZ-63I
653909015	BRA-PZ-64I
653909016	BRA-APBCD-FD-02
653909017	BRA-APBCD-FB-02

Laboratory IDs	Client IDs
653909018	BRA-PZ-74I
653909019	BRA-APBCD-EB-06
653909020	BRA-PZ-68D
653909021	BRA-PZ-75I
653570001	BRA-BRGWA-2S
653570002	BRA-BRGWA-5S
653570003	BRA-BRGWA-5I
653570004	BRA-BRGWA-6S
653570005	BRA-BRGWA-2I
653575001	BRA-BRGWC-17S
653575002	BRA-BRGWC-35S
653575003	BRA-PZ-13S
653575004	BRA-APE-FD-04
653575005	BRA-APE-FB-07
653855001	BRA-BRGWC-33S
653855002	BRA-BRGWC-34S
653855003	BRA-BRGWC-36S
653855004	BRA-BRGWC-37S
653855005	BRA-BRGWC-38S
653855006	BRA-APE-EB-09
653855007	BRA-APE-FB-08
653855008	BRA-PZ-52D
653855009	BRA-PZ-53D
653855010	BRA-PZ-70I
653855011	BRA-APE-FD-05
653855012	BRA-APE-EB-10

The samples were received at 0.0 and 1.0 degrees Celsius (°C), outside of the EPA Region 4 criteria of 4°C ± 2°C. Since the samples were received between 0-6°C and based on professional judgment, no qualifications were applied to the data. No sample preservation issues were noted by the laboratory.

653855 and 653575: The third relinquishing time of the chain of custody (COC) was inconsistent with the receiving time. The relinquishing time appears to not be documented in military time.

653570, 653853 and 653582: The second relinquishing time of the COC was inconsistent with the receiving time. The relinquishing time appears to not be documented in military time.

1.0 METALS

The samples were analyzed for metals by US EPA methods 3005A/6020B.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable or not applicable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

✓ Overall Assessment
✓ Holding Time
⊗ Method Blank
⊗ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Laboratory Duplicate
⊗ Field Blank
✓ Equipment Blank
✓ Field Duplicate
✓ Serial Dilution
✓ Sensitivity
✓ Electronic Data Deliverables Review

1.1 Overall Assessment

1.1.1 Completeness

The metals data reported in this laboratory report are considered usable for supporting project objectives. The results are considered valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

1.1.2 Analysis Anomaly

The laboratory noted that the contract required detection limit (CRDL) for calcium did not meet the laboratory specified acceptance criteria. Since the calcium results in the associated samples were significantly greater than the CRDL and based on professional and technical judgement, no qualifications were applied to the data.

The laboratory also noted that for the Inductively Coupled Plasma – Mass Spectrometry analysis, the Interference Check Sample (ICSA) solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard. No qualifications were applied to the data based on professional and technical judgment.

1.2 Holding Time

The holding time for the metals analysis of a water sample is 180 days from sample collection to analysis. The holding times were met.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Five method blanks were reported (batches 2561629, 2562399, 2562396, 2563142 and 2563146). Metals were not detected in the method blanks at or above the method detection limits (MDLs), with the following exception.

653909: Manganese was detected at a concentration greater than the reporting limit (RL) in the method blank in batch 2563142. Therefore, the estimated concentrations of manganese in BRA-APBCD-EB-05 and BRA-APBCD-FB-03 were U qualified as not detected above the RL.

Sample ID	Compound	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier*	Reason Code**
BRA-APBCD-EB-05	Manganese	0.00105	J	0.00500	U	BLL
BRA-APBCD-FB-03	Manganese	0.00390	J	0.00500	U	BLL

mg/L- milligram per liter
J-the result is less than RL but greater than the MDL and the concentration is an approximate value
* Validation qualifiers are defined in Attachment 1 at the end of this report
**Reason codes are defined in Attachment 2 at the end of this report

1.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSDs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Five sample set specific MS/MSD pairs were reported, using samples BRA-BRGWC-29I, BRA-PZ-50D, BRA-BRGWC-52I, BRA-BRGWA-2S and BRA-

BRGWC-33S. The recovery and relative percent difference (RPD) results were within the laboratory specified acceptance criteria, with the following exception.

653909: The MS recovery of boron in the MS/MSD pair in batch 2563142 using sample BRA-PZ-50D was low and outside of laboratory specified acceptance criteria. Therefore, the concentration of boron in sample BRA-PZ-50D was J- qualified as estimated with low bias.

Sample ID	Compound	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
BRA-PZ-50D	Boron	0.269	NA	0.269	J-	MS1

mg/L- milligram per liter
NA-not applicable

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Five LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

1.6 Laboratory Duplicate

Laboratory duplicates were not reported for metals.

1.7 Field Blank

Five field blanks, BRA-APBCD-FB-01, BRA-APBCD-FB-02, BRA-APBCD-FB-03, BRA-APE-FB-07 and BRA-APE-FB-08 were collected with the sample set. Metals were not detected in the field blanks at or above the MDLs, with the following exceptions.

653909: Cobalt (0.00108 mg/L) and magnesium (0.0585 mg/L) were detected at concentrations greater than the RL in field blank BRA-APBCD-FB-02. Therefore, the estimated cobalt concentrations in BRA-APBCD-EB-06, BRA-BRGWC-52I, BRA-PZ-68D, BRA-PZ-74I and BRA-PZ-75I were U qualified as not detected at the RL, and the detected concentration of cobalt in BRA-APBCD-FD-02, BRA-BRGWC-45 and BRA-PZ-51D were J+ qualified as estimated with a high bias. Since magnesium was detected at concentrations greater than the RL in the associated samples and based on professional and technical judgment, no additional qualifications were applied to the data.

Boron (0.00839 mg/L) and manganese (0.00398 mg/L) were detected at estimated concentrations greater than the MDLs and less than the RLs in field blank BRA-APBCD-FB-02. Therefore, the concentrations of boron in sample BRA-BRGWC-45, BRA-PZ-51D and BRA-PZ-64I and manganese in BRA-PZ-74I and BRA-PZ-75I were J+ qualified as estimated with a high bias and

the estimated concentration of manganese in BRA-APBCD-EB-06 was U qualified as not detected at the RL.

Magnesium (0.0120 mg/L) and manganese (0.00390 mg/L) were detected at estimated concentrations greater than the MDLs and less than the RLs in field blank BRA-APBCD-FB-03. Therefore, the estimated manganese concentration in BRA-APBCD-EB-06 was U qualified as not detected at the RL. Since magnesium was detected at concentrations greater than the RL in the associated samples and based on professional and technical judgment, no additional qualifications were applied to the data.

Sample ID	Compound	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
BRA-APBCD-EB-06	Cobalt	0.000443	J	0.00100	U	BFH
BRA-APBCD-EB-06	Manganese	0.00327	J	0.00500	U	BFL
BRA-APBCD-FD-02	Cobalt	0.00179	NA	0.00179	J+	BFH
BRA-BRGWC-52I	Cobalt	0.000420	J	0.00100	U	BFH
BRA-BRGWC-45	Boron	0.0355	NA	0.0355	J+	BFL
BRA-PZ-51D	Boron	0.0326	NA	0.0326	J+	BFL
BRA-PZ-64I	Boron	0.0160	NA	0.0160	J+	BFL
BRA-PZ-68D	Cobalt	0.000852	J	0.00100	U	BFH
BRA-PZ-74I	Cobalt	0.000829	J	0.00100	U	BFH
BRA-PZ-74I	Manganese	0.0320	NA	0.0320	J+	BFL
BRA-PZ-75I	Cobalt	0.000519	J	0.00100	U	BFH
BRA-PZ-75I	Manganese	0.0209	NA	0.0209	J+	BFL
BRA-BRGWC-45	Cobalt	0.00181	NA	0.00181	J+	BFH
BRA-PZ-51D	Cobalt	0.00111	NA	0.00111	J+	BFH

mg/L- milligram per liter
J-the result is less than RL but greater than the MDL and the concentration is an approximate value
NA-not applicable

1.8 Equipment Blank

Five equipment blanks, BRA-APBCD-EB-04, BRA-APBCD-EB-05, BRA-APBCD-EB-06, BRA-APE-EB-09 and BRA-APE-EB-10 were collected with the sample set. Metals were not detected in the equipment blanks at or above the MDLs, with the following exceptions.

653909: Manganese (0.00105 mg/L) was detected at an estimated concentration greater that the MDL and less than the RL in equipment blank BRA-APBCD-EB-05. Since the concentration of manganese in equipment blank BRA-APBCD-EB-05 was U qualified as not detected at the RL due to method blank contamination and based on professional and technical judgment, no additional qualifications were applied to the data.

Cobalt (0.000443 mg/L) and manganese (0.00327 mg/L) were detected in equipment blank BRA-APBCD-EB-06 at estimated concentrations greater than the MDLs and less than the RLs. Since the concentrations of cobalt and manganese in equipment blank BRA-APBCD-EB-06 were U qualified as not detected at the RLs due to method blank contamination and based on professional and technical judgment, no additional qualifications were applied to the data.

653855: Magnesium (0.0190 mg/L) was detected in equipment blank BRA-APE-EB-10 at a concentration greater than the MDL and less than the RL. Since magnesium was detected at concentrations greater than the RL in the associated samples and based on professional and technical judgment, no qualifications were applied to the data.

1.9 Field Duplicate

Five duplicate samples, BRA-APBCD-FD-01, BRA-APBCD-FD-02, BRA-APBCD-FD-03, BRA-APE-FD-04 and BRA-APE-FD-05 were collected with the sample set. Acceptable precision (RPD < 20% or the difference between the concentrations < RL) was demonstrated between the field duplicates and the original samples BRA-PZ-44, BRA-BRGWC-52I, BRA-PZ-60I, BRGWC-35S and BRGWC-33S, respectively, with the following exceptions.

653909: Cobalt was detected in field duplicate BRA-APBCD-FD-02 at a concentration greater than the RL and detected at an estimated concentration greater than the MDL and less than the RL in sample BRA-BRGWC-52I, resulting in a noncalculable RPD between the results. Since the difference between the results were within the RL of each other, no qualifications were applied to the data.

653575: Beryllium was not detected in sample BRA-BRGWC-35S and detected at an estimated concentration greater than the MDL and less than the RL in field duplicate BRA-APE-FD-04, resulting in a noncalculable RPD between the results. Since the difference between the results were within the RL of each other, no qualifications were applied to the data.

653855: Arsenic was detected in sample BRA-BRGWC-33S at a concentration greater than the RL and detected at an estimated concentration greater than the MDL and less than the RL in field duplicate BRA-APE-FD-05, resulting in a noncalculable RPD between the results. Since the difference between the results were within the RL of each other, no qualifications were applied to the data.

1.10 Serial Dilution

Five sample set specific serial dilutions were reported for metals using samples BRA-BRGWC-29I, BRA-PZ-50D, BRA-BRGWC-52I, BRA-BRGWA-2S and BRA-BRGWC-33S. The percent difference (%D) results were within the method specified acceptance criteria.

One batch serial dilution was also reported. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

1.11 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were reported due to dilutions analyzed.

1.12 Electronic Data Deliverable Review

The results and sample IDs in the EDDs were reviewed against the information provided by the associated level II reports at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II reports and the EDDs.

2.0 MERCURY

The samples were analyzed for mercury by US EPA Method 7470A.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable or not applicable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

✓ Overall Assessment
✓ Holding Time
✓ Method Blank
⊗ Matrix Spike and Post Spike
✓ Laboratory Control Sample
✓ Laboratory Duplicate
✓ Field Blank
✓ Equipment Blank
✓ Field Duplicate
✓ Serial Dilution
✓ Sensitivity
✓ Electronic Data Deliverable Review

2.1 Overall Assessment

The mercury data reported in this laboratory report are considered usable for supporting project objectives. The results are considered valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to

the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

2.2 Holding Times

The holding time for the mercury analysis of a water sample is 28 days from sample collection to analysis. The holding times were met.

2.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Six method blanks were reported (batches 2561610, 2561613, 2562604, 2562321, 2563279 and 2563284). Mercury was not detected in the method blanks at or above the MDL.

2.4 Matrix Spike and Post Spike (PS)

MSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples).

653855: One sample set specific MS and post spike (PS) were reported using sample BRA-BRGWC-33S. The recovery results were low and outside of laboratory specified acceptance criteria. Therefore, the nondetect result in sample BRA-BRGWC-33S was UJ qualified as estimated less than the MDL.

Sample ID	Compound	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
BRA-BRGWC-33S	Mercury	0.0000670	U	0.0000670	UJ	MS1

mg/L- milligram per liter
U-not detected at or above the MDL

Five batch MSs were also reported. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

2.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Six LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

2.6 Laboratory Duplicate

One sample set specific laboratory duplicate was reported using sample BRA-BRGWC-33S. The RPD results were within the laboratory specified acceptance criteria.

Five batch laboratory duplicates were also reported. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

2.7 Field Blank

Five field blanks, BRA-APBCD-FB-01, BRA-APBCD-FB-02, BRA-APBCD-FB-03, BRA-APE-FB-07 and BRA-APE-FB-08 were collected with the sample set. Mercury was not detected in the field blanks at or above the MDL.

2.8 Equipment Blank

Five equipment blanks, BRA-APBCD-EB-04, BRA-APBCD-EB-05, BRA-APBCD-EB-06, BRA-APE-EB-09 and BRA-APE-EB-10 were collected with the sample set. Mercury was not detected in the equipment blanks at or above the MDL.

2.9 Field Duplicate

Five duplicate samples, BRA-APBCD-FD-01, BRA-APBCD-FD-02, BRA-APBCD-FD-03, BRA-APE-FD-04 and BRA-APE-FD-05 were collected with the sample set. Acceptable precision (RPD < 20% or the difference between the concentrations < RL) was demonstrated between the field duplicates and the original samples BRA-PZ-44, BRA-BRGWC-52I, BRA-PZ-60I, BRGWC-35S and BRGWC-33S, respectively.

2.10 Serial Dilution

One sample set specific serial dilution was performed using sample BRA-BRGWC-33S. The %D results were within the method specified acceptance criteria. Five batch serial dilutions were also reported for mercury. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

2.11 Sensitivity

The samples were reported to the MDL. Elevated non-detect results were not reported.

2.12 Electronic Data Deliverable Review

The results and sample IDs in the EDDs were reviewed against the information provided by the associated level II reports at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II reports and the EDDs.

3.0 WET CHEMISTRY

The samples were analyzed for anions by US EPA method 300.0, TDS by SM 2540C, total sulfide by SM 4500-S2-D and alkalinity by SM 2320B.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable or not applicable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

✓ Overall Assessment
⊗ Holding Times
⊗ Method Blank
⊗ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
⊗ Laboratory Duplicate
✓ Field Blank
⊗ Equipment Blank
✓ Field Duplicate
✓ Sensitivity
✓ Electronic Data Deliverables Review

3.1 Overall Assessment

3.1.1 Completeness

The wet chemistry data reported in this laboratory report are considered usable for supporting project objectives. The results are considered valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

3.1.2 Analysis Anomaly

653570, 653855 and 653853: The laboratory noted that samples BRA-BRGWA-6S, BRA-BRGWC-34S, BRA-BRGWC-36S, BRA-BRGWC-38S, BRA-PZ-52D, BRA-PZ-53D, BRA-PZ-70I, BRA-BRGWC-25I and BRA-BRGWC-27I were manually integrated to correctly position the baseline as set in the calibration standards for the anion analyses. No qualifications were applied to the data based on professional and technical judgment.

3.2 Holding Times

The holding time for the nitrate-n analyses of a water sample is 48 hours from sample collection to analysis. The holding time for the fluoride, chloride and sulfate analyses of a water sample is 28 days from sample collection to analysis. The holding times for the TDS and total sulfide analysis of a water sample are 7 days from sample collection to analysis. The holding time for the alkalinity analysis of a water sample is 14 days from sample collection to analysis. The holding times were met, with the following exceptions.

653909: The nitrate-n analysis was performed outside of the 48-hour hold time for sample BRA-PZ-50D. Therefore, the concentration of nitrate-n in sample BRA-PZ-50D was J- qualified as estimated with a low bias.

Sample ID	Compound	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
BRA-PZ-50D	Nitrogen-N	7.85	H	7.85	J-	HT2

mg/L- milligram per liter
H-analytical holding time was exceeded

3.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Four method blanks were reported for anions (batches 2561599, 2562344, 2562947 and 2562950). Four method blanks were reported for TDS (batches 2563910, 2564661, 2565277 and 2565278). Four method blanks were reported for total sulfide (batches 2561631, 2562451, 2562850 and 2562851). The wet chemistry parameters were not detected in the method blanks at or above the MDLs, with the following exceptions.

653885, 653853, 653855 and 653909: Chloride (0.114, 0.126 and 0.157 mg/L) was detected at estimated concentrations greater than the MDL and less than the RL in the method blanks in batches 2562344, 2562947 and 2562950, respectively. Therefore, the estimated concentrations of chloride in the associated samples were U qualified as not detected at the RL and the chloride concentration in sample BRA-APBCD-FB-01 was J+ qualified as estimated with high bias, based on professional and technical judgment.

Sample ID	Compound	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
BRA-APBCD-FB-01	Chloride	0.277	NA	0.277	J+	BLL
BRA-APE-EB-09	Chloride	0.200	J	0.200	U	BLL
BRA-APE-EB-10	Chloride	0.200	J	0.200	U	BLL
BRA-APE-FB-08	Chloride	0.200	J	0.200	U	BLL
BRA-APBCD-EB-05	Chloride	0.200	J	0.200	U	BLL
BRA-APBCD-FB-02	Chloride	0.200	J	0.200	U	BLL
BRA-APBCD-FB-03	Chloride	0.200	J	0.200	U	BLL

mg/L- milligram per liter
NA-not applicable
J-the result is less than RL but greater than the MDL and the concentration is an approximate value

3.4 Matrix Spike/Matrix Spike Duplicate

Seven sample set specific MSs were reported for anions, using samples BRA-PZ-44, BRA-BRGWC-29I, BRA-PZ-50D, BRA-PZ-51D, BRA-BRGWC-52I, BRA-BRGWA-2S and BRA-PZ-70I. The recovery results were within the laboratory specified acceptance criteria, with the following exceptions.

653855: The recoveries of chloride and sulfate in the MS in batch 2562344 using sample BRA-PZ-70I were high and outside of laboratory specified acceptance criteria. Therefore, the concentration of chloride in sample BRA-PZ-70I was J+ qualified as estimated with high bias. Since sulfate was reported from a dilution and based on professional and technical judgment, no qualifications were applied to the sulfate data.

653853: The recovery of chloride in the MS in batch 2562344 using sample BRA-BRGWC-29I was high and outside of laboratory specified acceptance criteria. Therefore, the concentration of chloride in sample BRA-BRGWC-29I was J+ qualified as estimated with high bias.

653909: The recoveries of chloride and nitrate-n in the MS in batch 2562947 using sample BRA-PZ-50D were high and outside of laboratory specified acceptance criteria. Therefore, the concentrations of chloride and nitrate-n in sample BRA-PZ-50D were J+ qualified as estimated. The nitrate-n concentration for sample BRA-PZ-50D was also J- qualified due to holding time exceedance; therefore, based on professional and technical judgment, the final qualification for the result is J qualified as estimated.

The recovery of chloride in the MS in batch 2562950 using sample BRA-BRGWC-52I was high and outside of laboratory specified acceptance criteria. Therefore, the concentration of chloride in sample BRA-BRGWC-52I was J+ qualified as estimated with high bias.

653582: The recovery of chloride in the MS in batch 2561599 using sample BRA-PZ-44 was high and outside of laboratory specified acceptance criteria. Therefore, the concentration of chloride in sample BRA-PZ-44 was J+ qualified as estimated with high bias.

Seven sample set specific MS/MSD pairs were reported for sulfide, using samples BRA-PZ-44, BRA-BRGWC-29I, BRA-PZ-50D, BRA-PZ-51D, BRA-BRGWC-52I, BRA-BRGWA-2S, BRA-BRGWC-45, BRA-PZ-68D and BRA-PZ-70I. The recovery results were within the laboratory specified acceptance criteria, with the following exceptions.

653853: The sulfide recoveries in the MS/MSD pair using sample BRA-BRGWC-29I were low and outside of laboratory specified acceptance criteria. Therefore, the nondetect result for sulfide for sample BRA-BRGWC-29I was UJ qualified as estimated below the MDL.

653855: The sulfide recoveries in the MS/MSD pair in batch 2562344 using sample BRA-PZ-70I were low and outside of laboratory specified acceptance criteria. Therefore, the nondetect result for sulfide for sample BRA-PZ-70I was UJ qualified as estimated below the MDL.

653909: The sulfide recoveries in the MS/MSD pair using sample BRA-BRGWC-45 were low and outside of laboratory specified acceptance criteria. Therefore, the nondetect result for sulfide for sample BRA-BRGWC-45 was UJ qualified as estimated below the MDL.

653582: The sulfide recoveries in the MS/MSD pair using sample BRA-PZ-44 were low and outside of laboratory specified acceptance criteria. Therefore, the nondetect result for sulfide for sample BRA-PZ-44 was UJ qualified as estimated below the MDL.

Batch MSs and MS/MSD pairs were also reported for anions, alkalinity and sulfide. Since the batch QC results do not affect the samples in this data set, qualifications were not applied to the data.

Sample ID	Compound	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
BRA-PZ-70I	Chloride	5.74	NA	5.74	J+	MS1
BRA-PZ-44	Chloride	6.36	NA	6.36	J+	MS1
BRA-BRGWC-29I	Chloride	7.94	NA	7.94	J+	MS1
BRA-BRGWC-52I	Chloride	6.30	NA	6.30	J+	MS1
BRA-PZ-50D	Chloride	10.6	NA	10.6	J+	MS1
BRA-PZ-50D	Nitrate-N	7.85	H	7.85	J	MS1
BRA-PZ-70I	Sulfide	0.100	U	0.100	UJ	MS1
BRA-PZ-44	Sulfide	0.100	U	0.100	UJ	MS1
BRA-BRGWC-45	Sulfide	0.100	U	0.100	UJ	MS1

Sample ID	Compound	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
BRA-BRGWC-29I	Sulfide	0.100	U	0.100	UJ	MS1

mg/L- milligram per liter
U-not detected at or above the MDL
NA-not applicable
H-analytical holding time was exceeded

3.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). An LCS or LCS/LCS duplicate (LCSD) pair was reported for each analytical batch per analysis. The recovery and RPD results were within the laboratory specified acceptance criteria.

3.6 Laboratory Duplicate

Seven sample set specific laboratory duplicates were reported for anions, using samples BRA-PZ-44, BRA-BRGWC-29I, BRA-PZ-50D, BRA-PZ-51D, BRA-BRGWC-52I, BRA-BRGWA-2S and BRA-PZ-70I. The RPD results were within the laboratory specified acceptance criteria.

Four sample set specific laboratory duplicate were reported for TDS, using samples BRA-PZ-50D, BRA-PZ-64I, BRA-BRGWC-35S and BRA-BRGWC-38S. The RPD results were within the laboratory specified acceptance criteria, with the following exception.

653909: The RPD of TDS in the laboratory duplicate using sample BRA-PZ-64I was high and outside of laboratory specified acceptance criteria. Therefore, the concentration of TDS in sample BRA-PZ-64I was J qualified as estimated.

Batch laboratory duplicates were reported for TDS and anions. Since the batch QC results do not affect the samples in this data set, qualifications were not applied to the data.

Sample ID	Compound	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
BRA-PZ-64I	TDS	4420	NA	4420	J	RPD5

mg/L- milligram per liter
NA-not applicable

3.7 Field Blank

Five field blanks, BRA-APBCD-FB-01, BRA-APBCD-FB-02, BRA-APBCD-FB-03, BRA-APE-FB-07 and BRA-APE-FB-08 were collected with the sample set. Wet chemistry parameters were not detected in the field blanks at or above the MDLs, with the following exceptions.

653853, 653855 and 653909: Chloride (0.277, 0.116, 0.174 and 0.142 mg/L) was detected at estimated concentrations greater than the MDL and less than the RL in field blanks BRA-APBCD-FB-01, BRA-APE-FB-08, BRA-APBCD-FB-02 and BRA-APBCD-FB-03, respectively. Since the concentrations of chloride in field blanks BRA-APBCD-FB-01, BRA-APE-FB-08, BRA-APBCD-FB-02 and BRA-APBCD-FB-03 were U qualified as not detected at the RL due to method blank contamination and based on professional and technical judgment, no additional qualifications were applied to the data.

3.8 Equipment Blank

Five equipment blanks, BRA-APBCD-EB-04, BRA-APBCD-EB-05, BRA-APBCD-EB-06, BRA-APE-EB-09 and BRA-APE-EB-10 were collected with the sample set. Wet chemistry parameters were not detected in the equipment blanks at or above the MDLs, with the following exceptions.

653855 and 653909: Chloride (0.176, 0.152 and 0.111 mg/L) was detected at estimated concentrations greater than the MDL and less than the RL in equipment blanks BRA-APBCD-EB-05, BRA-APE-EB-09 and BRA-APE-EB-10, respectively. Since the concentrations of chloride in equipment blanks BRA-APBCD-EB-05, BRA-APE-EB-09 and BRA-APE-EB-10 were U qualified as not detected at the RL due to method blank contamination and based on professional and technical judgment, no additional qualifications were applied to the data.

653855: Nitrate-n (0.0509 mg/L) was detected at an estimated concentration greater than the MDL and less than the RL in equipment blank BRA-APE-EB-09. Therefore, the estimated Nitrate-N concentrations in samples BRA-BRGWC-34S and BRA-PZ-53D were U qualified as not detected at the RL and the nitrate-n concentrations in samples BRA-BRGWC-36S, BRA-BRGWC-38S, BRA-PZ-52D and BRA-PZ-70I were J+ qualified as estimated with high bias.

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
BRA-BRGWC-34S	Nitrate-N	0.0409	J	0.100	U	BEL
BRA-BRGWC-36S	Nitrate-N	0.159	NA	0.159	J+	BEL
BRA-BRGWC-38S	Nitrate-N	0.119	NA	0.119	J+	BEL
BRA-PZ-52D	Nitrate-N	0.151	NA	0.151	J+	BEL
BRA-PZ-53D	Nitrate-N	0.0429	J	0.100	U	BEL

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
BRA-PZ-70I	Nitrate-N	0.152	NA	0.152	J+	BEL

mg/L- milligram per liter
J-the result is less than RL but greater than the MDL and the concentration is an approximate value
NA-not applicable

3.9 Field Duplicate

Five duplicate samples, BRA-APBCD-FD-01, BRA-APBCD-FD-02, BRA-APBCD-FD-03, BRA-APE-FD-04 and BRA-APE-FD-05 were collected with the sample set. Acceptable precision (RPD < 20% or the difference between the concentrations < RL) was demonstrated between the field duplicates and the original samples BRA-PZ-44, BRA-BRGWC-52I, BRA-PZ-60I, BRGWC-35S and BRGWC-33S, respectively, with the following exception.

653575: The nitrate-n RPD for field duplicate pair BRA-APE-FD-04/BRA-BRGWC-35S was greater than 30%. Since the difference between the results were within the RL of each other, no qualifications were applied to the data.

653582: Nitrate-n was not detected in field duplicate BRA-APBCD-FD-01 and detected at an estimated concentration greater than the MDL and less than the RL in sample BRA-PZ-44, resulting in a noncalculable RPD between the results. Since the difference between the results were within the RL of each other, no qualifications were applied to the data.

The fluoride RPD for field duplicate pair BRA-APBCD-FD-01/BRA-PZ-44 was greater than 30%. Since the difference between the results were within the RL of each other, no qualifications were applied to the data.

653855: Bicarbonate alkalinity as CaCO3 and total alkalinity as CaCO3 were detected in sample BRA-BRGWC-33S at a concentration greater than the RL and detected at an estimated concentration greater than the MDL and less than the RL in field duplicate BRA-APE-FD-05, resulting in a noncalculable RPD between the results. Since the difference between the results were within the RL of each other, no qualifications were applied to the data.

3.10 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were reported due to dilutions analyzed.

653855 and 653909: A reduced aliquot was used due to matrix interference in samples BRA-BRGWC-33S, BRA-APE-FD-05, BRA-BRGWC-33S, BRA-APE-FD-05, BRA-PZ-50D, BRA-

BRGWC-50, BRA-PZ-58I, BRA-PZ-60I, BRA-PZ-61I, BRA-PZ-51I, BRA-APBCD-FD-03 and BRA-PZ-64I.

3.11 Electronic Data Deliverable Review

The results and sample IDs in the EDDs were reviewed against the information provided by the associated level II reports at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II reports and the EDDs.

ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS
AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

U The analyte was analyzed for, but was not detected at or above the reported sample quantitation limit. Upon application of the U qualifier to a reported result, the definition changes to "not detected at or above the reported result."

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

J+ The analyte was positively identified; however, the associated numerical value is likely to be higher than the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.

J- The analyte was positively identified; however, the associated numerical value is likely to be lower than the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.

UJ The analyte was not detected at or above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec's Data Validation Team

DQM Reason Code	Description
AB1	> Samples in batch
AB2	QC sample missing
AB3	Batch analysis time exceeded
BAH	Contamination detected in the Ambient Blank greater than or equal to the Quantitation Limit.
BAL	Contamination detected in the Ambient Blank less than the Quantitation Limit.
BC	Calibration blank contamination
BC1	assoc. result < RL
BC2	assoc. result > RL < mult.
BC3	assoc. result > RL > mult.
BEH	Contamination detected in the Equipment Blank greater than or equal to the Quantitation Limit.
BEL	Contamination detected in the Equipment Blank less than the Quantitation Limit.
BF	Field blank contamination
BF1	assoc. result < RL
BF2	assoc. result > RL < mult.
BF3	assoc. result > RL > mult.
BFH	Contamination detected in the Field Blank greater than or equal to the Quantitation Limit.
BFL	Contamination detected in the Field Blank less than the Quantitation Limit.
BL	Laboratory blank contamination
BL1	assoc. result < RL
BL2	assoc. result > RL < mult.
BL3	assoc. result > RL > mult.
BLH	Contamination detected in the Lab Blank greater than or equal to the Quantitation Limit.
BLL	Contamination detected in the Lab Blank less than the Quantitation Limit.
BT	Trip blank contamination
BT1	assoc. result < RL
BT2	assoc. result > RL < mult.

DQM Reason Code	Description
BT3	assoc. result > RL > mult.
BTH	Contamination detected in the Trip Blank greater than or equal to the Quantitation Limit.
BTL	Contamination detected in the Trip Blank less than the Quantitation Limit.
CA1	Column difference
CC1	CCV %D
CC2	CCV %R
CC3	CCV RRF
CI1	IC RSD
CI2	IC RRF
CR1	Calibration range
CV1	ICV or CCV %D
CV2	ICV or CCV %R
CV3	ICV CCV RRF
DF1	Dilution Factor > 1
DL	Dilution Factor > 1
DVT1	The Dissolved Result > Total Result and the absolute difference > the AD_MULTIPLIER_CL * Detection Limit
DVT2	The Dissolved Result > Total Result and the absolute difference > AD_MULTIPLIER_UCO * Detection Limit
DVT3	The Dissolved Result > Total Result and the relative percent difference (RPD) > RPD_CL
DVT4	The Dissolved Result > Total Result and the relative percent difference (RPD) > RPD_UCO
ER1	MDL=<RESULT<RL (INORGANIC)
ER2	MDL=<RESULT<RL (ORGANIC)
FBC1	BLANK CONTAMINATION
FBC2	RESULT < BLANK * MULTIPLIER
FBC3	RESULT > BLANK * MULTIPLIER
FD1	Field duplicate RPD

DQM Reason Code	Description
FD2	Field duplicate abs. diff.
GHT1	GROSS_QUALIFIER_HIT
GHT2	GROSS_QUALIFIER_NON_DETECT
HP1	Hydrocarbon pattern
HT1	Holding time samp. to preservation
HT2	Holding time samp. to analysis
HT3	Holding time gros. samp. to pres.
HT4	Holding time gros. samp. to analysis
IS1	Internal standard
LBC1	BLANK CONTAMINATION
LBC2	RESULT < BLANK * MULTIPLIER
LBC3	RESULT > BLANK * MULTIPLIER
LD1	Lab duplicate RPD
LD2	Lab duplicate abs. diff.
LS1	LS %R
LS2	LS RPD
MS1	MS %R
MS2	MS RPD
MS3	Parent >4x spike
MS4	Spike diluted out
NP1	Non-Preferred Result
NR1	NUMERIC RESULTS
OT1	Other quality issue
PS1	BETWEEN CONTROL AND WARNING LIMITS
PS2	INVALID
PS3	LESS THAN LOWER CONTROL LIMIT
PS4	LESS THAN LOWER WARNING LIMIT

DQM Reason Code	Description
PT1	The preservative for this test id does not match the required preservative in RT_HOLDING_TIME.
RDL1	EXCEEDS REQUIRED DETECTION LIMIT
RL1	ND > project limit
RO1	Other rad. issue
RPD1	LCS/LCSD
RPD2	LCS/LCSD_NON_DETECT
RPD3	MS/MSD
RPD4	MS/MSD_NON_DETECT
RPD5	Orig/Dup
RPD6	Orig/Dup_NON_DETECT
RPDF1	FIELD DUPLICATE
RPDF2	FIELD DUPLICATE NON_DETECT
RQ1	Rad. quantitation issue
RR1	Repeated result same method
RR2	Repeated result diff. method
RSD1	RSD exceeds CL for LCS sample
RSD2	RSD exceeds CL for MS sample
RSD3	RSD exceeds CL for Lab sample
RSD4	RSD exceeds CL for Field sample
RY1	Tracer or carrier
SD1	Serial dilution
SO1	High moisture
SO2	Wet weight
SP1	Preservation, temp
SP2	Preservation, pH
SP3	Preservation, headspace

DQM Reason Code	Description
SPR1	BLANK SPIKE > UCL
SPR10	EarthSoft.DQM.SpikeRecovery2
SPR11	EarthSoft.DQM.SpikeRecovery2
SPR12	EarthSoft.DQM.SpikeRecovery2
SPR2	INORGANIC SPIKE > UCL
SPR3	ORGANIC SPIKE > UCL
SPR4	LCL > BLANK > LOW_CUTOFF
SPR5	LCL > INORG > LOW_CUTOFF
SPR6	LCL > ORG > LOW_CUTOFF
SPR7	BLANK SPIKE < LOW_CUTOFF
SPR8	INORGANIC SPIKE < LOW_CUTOFF
SPR9	ORGANIC SPIKE < LOW_CUTOFF
SU	Surrogate outlier
SU1	Surrogate
SU2	Surrogate diluted out
SURR1	ASSO. DETECTS OF LCL > REC > LOW_CUTOFF
SURR10	EarthSoft.DQM.SurrogateRecovery
SURR11	EarthSoft.DQM.SurrogateRecovery
SURR12	EarthSoft.DQM.SurrogateRecovery
SURR2	ASSO. DETECTS OF REC < LOW_CUTOFF
SURR3	ASSO. DETECTS OF REC > UCL
SURR4	ASSO. NDS OF LCL > REC > LOW_CUTOFF
SURR5	ASSO. NDS OF REC < LOW_CUTOFF
SURR6	ASSO. NDS OF REC > UCL
SURR7	LCL > REC > LOW_CUTOFF
SURR8	REC < LOW_CUTOFF
SURR9	REC > UCL
TBC1	BLANK CONTAMINATION

DQM Reason Code	Description
TBC2	RESULT < BLANK * MULTIPLIER
TBC3	RESULT > BLANK * MULTIPLIER
TR	Trace Detection
TR1	Trace detection
TRA1	Tracer is outside of UCL or LCL
TRA2	Associated result of a tracer less than the LCL
TRA3	Associated detect result of a tracer greater than the UCL
VC1	Canister vacuum
VC2	Canister contamination
VSU1	INVALID SAMPLE UNIT TYPE
VSU2	MISSING SAMPLE UNIT TYPE
VSU3	NON-DEFAULT RESULT UNIT

AD-Absolute Difference
CCV-Continuous Calibration Verification
CL-Control Limit
%D-Percent Difference
IC-Initial Calibration
ICV-Initial Calibration Verification
INORG-Inorganic
LCL-Lower Control Limit
LCS-Laboratory Control Spike
LCSD-Laboratory Control Spike Duplicate
LS-Laboratory Spike
MDL-Method Detection Limit
MS-Matrix Spike
MSD-Matrix Spike Duplicate
ND-Not Detected
ORG-Organic
QC-Quality Control
%R-Percent Recovery
REC-Recovery
RL-Reporting Limit
RPD-Relative Percent Difference
RRF-Relative Response Factor
RSD-Relative Standard Deviation
UCL-Upper Control Limit
UCO-Upper Cut Off

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Memorandum

Date:	29 May 2024
To:	Lauren Fitzgerald
From:	Kristoffer Henderson
CC:	Ashley Wilson
Subject:	**Stage 2A Data Validation - Level II Data Deliverables – GEL Laboratories, LLC Work Orders (WOs) 653572, 653856, 653580, 653911, 653854 and 653584**

SITE: Plant Branch CCR Groundwater Compliance

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of thirty-eight groundwater samples, five equipment blanks, five field blanks and five field duplicate samples, collected between 30-31 January and 01 February 2024, as part of the Plant Branch CCR Groundwater Compliance sampling event.

The samples were analyzed at GEL Laboratories LLC, Charleston, SC, for the following analytical tests:

- Radium-226 by Modified United States (US) Environmental Protection Agency (EPA) Method 903.1
- Radium-228 by Modified US EPA Methods 904.0/9320 Modified
- Total Radium by Calculation

EXECUTIVE SUMMARY

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below and based on the information provided, the data as qualified are usable for supporting project objectives. The qualified data should be used within the limitations of the qualifications. If there are results with two or more different qualifications due to multiple QC failures, the final qualification is reconciled in the electronic data deliverable (EDD) with qualifications.

The data were reviewed based on the pertinent methods referenced in the laboratory reports, professional and technical judgment, and the following documents:

- American Nuclear Society Verification and Validation of Radiological Data for use in Waste Management and Environmental Remediation (ANSI/ANS-41.5-2012), February 15, 2012.

The following samples were analyzed and reported in the laboratory reports:

Laboratory IDs	Client IDs
653584001	BRA-BRGWC-32S
653584002	BRA-BRGWC-47
653584003	BRA-PZ-44
653584004	BRA-BRGWA-23S
653584005	BRA-BRGWC-30I
653584006	BRA-APBCD-FD-01
653854001	BRA-BRGWC-29I
653854002	BRA-BRGWC-25I
653854003	BRA-BRGWC-27I
653854004	BRA-APBCD-FB-01
653911001	BRA-PZ-50D
653911002	BRA-APBCD-EB-05
653911003	BRA-BRGWC-50
653911004	BRA-APBCD-FB-03
653911005	BRA-BRGWC-45
653911006	BRA-PZ-58I
653911007	BRA-PZ-60I
653911008	BRA-PZ-61I
653911009	BRA-PZ-51I
653911010	BRA-APBCD-FD-03
653911011	BRA-PZ-51D
653911012	BRA-APBCD-EB-04
653911013	BRA-BRGWC-52I
653911014	BRA-PZ-63I
653911015	BRA-PZ-64I
653911016	BRA-APBCD-FD-02
653911017	BRA-APBCD-FB-02

Laboratory IDs	Client IDs
653911018	BRA-PZ-74I
653911019	BRA-APBCD-EB-06
653911020	BRA-PZ-68D
653911021	BRA-PZ-75I
653856001	BRA-BRGWC-33S
653856002	BRA-BRGWC-34S
653856003	BRA-BRGWC-36S
653856004	BRA-BRGWC-37S
653856005	BRA-BRGWC-38S
653856006	BRA-APE-EB-09
653856007	BRA-APE-FB-08
653856008	BRA-PZ-52D
653856009	BRA-PZ-53D
653856010	BRA-PZ-70I
653856011	BRA-APE-FD-05
653856012	BRA-APE-EB-10
653580001	BRA-BRGWC-17S
653580002	BRA-BRGWC-35S
653580003	BRA-PZ-13S
653580004	BRA-APE-FD-04
653580005	BRA-APE-FB-07
653572001	BRA-BRGWA-2S
653572002	BRA-BRGWA-5S
653572003	BRA-BRGWA-5I
653572004	BRA-BRGWA-6S
653572005	BRA-BRGWA-2I

No sample preservation issues were noted by the laboratory.

Sample collection times were not listed on the chain of custody (COC) for field duplicate samples, BRA-APE-FD-04, BRA-APE-FD-05, BRA-APBCD-FD-01, BRA-APBCD-FD-02 and BRA-APBCD-FD-03. Collection times were not documented in the laboratory reports.

1.0 RADIOCHEMISTRY

The samples were analyzed for radium-226 by modified US EPA method 903.1, modified radium-228 by US EPA methods 904.0/9320 modified and total radium by calculation.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

⊗ Overall Assessment
✓ Holding Times
⊗ Method Blank
✓ Matrix Spike
✓ Laboratory Control Sample
✓ Laboratory Duplicate
✓ Tracers and Carriers
✓ Field Blank
⊗ Equipment Blank
✓ Field Duplicate
✓ Sensitivity
✓ Electronic Data Deliverables Review

1.1 Overall Assessment

1.1.1 Completeness

The radiochemistry data reported in this data set are considered usable for supporting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

1.1.2 Analysis Anomaly

Total radium was reported at the minimum detectable concentration (MDC) for radium-228 for the samples and total radium-226 was detected in the following samples greater than the MDC, BRA-BRGWC-45, BRA-BRGWC-50, BRA-APE-EB-10, BRA-BRGWC-34S, BRA-BRGWC-32S and BRA-BRGWC-27I. In addition, since the total radium concentrations were less than the MDC for radium-228 the laboratory U flagged these concentrations as less than the MDC. Since total radium is calculated from radium-226 and radium-228, and radium-226 was greater than the MDC, and based on professional and technical judgment, the total radium concentrations for these samples were reported with no qualifications.

Total radium was reported at the MDC for radium-228 for the samples, and total radium-226 and total radium-228 were not detected in samples BRA-PZ-13S and BRA-BRGWA-6S greater than the MDCs. In addition, since the total radium concentrations were greater than the MDCs for radium-228 the sample results were not U flagged as less than the MDCs. Since total radium is calculated from radium-226 and radium-228, and radium-226 and radium-228 were less than the MDCs, and based on professional and technical judgment, the total radium concentrations for samples BRA-PZ-13S and BRA-BRGWA-6S were U qualified as less than the MDCs.

Sample ID	Compound	Laboratory Result (pCi/L)	Laboratory Flag	Validation Result (pCi/L)	Validation Qualifier*	Reason Code**
BRA-BRGWC-45	Combined Radium 226 + 228	1.22	U	1.22	NA	RO1
BRA-BRGWC-50	Combined Radium 226 + 228	0.607	U	0.607	NA	RO1
BRA-APE-EB-10	Combined Radium 226 + 228	0.263	U	0.263	NA	RO1
BRA-BRGWC-34S	Combined Radium 226 + 228	1.31	U	1.31	NA	RO1
BRA-BRGWC-32S	Combined Radium 226 + 228	0.572	U	0.572	NA	RO1
BRA-BRGWC-27I	Combined Radium 226 + 228	1.49	U	1.49	NA	RO1
BRA-PZ-13S	Combined Radium 226 + 228	2.01	NA	2.01	U	RO1
BRA-BRGWA-6S	Combined Radium 226 + 228	1.29	NA	1.29	U	RO1

pCi/L-picocuries per liter
U-not detected at or above the MDC
NA-not applicable
* Validation qualifiers are defined in Attachment 1 at the end of this report
**Reason codes are defined in Attachment 2 at the end of this report

1.2 Holding Times

The holding times for the radium-226 and radium-228 analyses of a water sample are 180 days from sample collection to analysis. The holding times were met for the sample analyses.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three method blanks were reported for the radium-226 data (batches 2561841, 2563218 and 2563219). Three method blanks were reported for the radium-228 data (batches 2568518, 2568527 and 2568570). Radium-226 and radium-228 were not detected in the method blanks at or above the MDCs, with the following exceptions.

653572, 653584 and 653580: Radium-228 (2.37 pCi/L) was detected in the method blank in batch 2568518 at a concentration greater than the MDC. Since the mean differences were less than 2 between the blank and samples BRA-BRGWA-2S, BRA-BRGWC-30I, BRA-BRGWC-47 and BRA-PZ-44, and the sample concentrations were less than ten times the blank concentration, the radium-228 concentrations for samples BRA-BRGWA-2S, BRA-BRGWC-30I, BRA-BRGWC-

47 and BRA-PZ-44 were UJ qualified as estimated less than the reported concentrations. Since Radium-226 was not detected in the samples BRA-BRGWA-2S, BRA-BRGWC-47 and BRA-PZ-44, the combined radium concentrations for these samples were UJ qualified as estimated less than the reported concentrations. The combined concentration in sample BRA-BRGWC-30I was J qualified as estimated due to there being a detection of radium-226 in the sample.

Sample ID	Compound	Laboratory Result (pCi/L)	Laboratory Flag	Validation Result (pCi/L)	Validation Qualifier	Reason Code
BRA-BRGWA-2S	Radium-228	2.10	NA	2.00	UJ	BL2
BRA-BRGWA-2S	Combined Radium 226 + 228	2.54	NA	2.54	UJ	BL2
BRA-BRGWC-30I	Radium-228	2.40	NA	2.40	UJ	BL2
BRA-BRGWC-30I	Combined Radium 226 + 228	4.11	NA	4.11	J	BL2
BRA-BRGWC-47	Radium-228	2.25	NA	2.25	UJ	BL2
BRA-BRGWC-47	Combined Radium 226 + 228	2.63	NA	2.63	UJ	BL2
BRA-PZ-44	Radium-228	2.21	NA	2.21	UJ	BL2
BRA-PZ-44	Combined Radium 226 + 228	2.87	NA	2.87	UJ	BL2

pCi/L-picocuries per liter
NA-not applicable

1.4 Matrix Spike (MS)

Three sample set specific MSs were reported for radium-226 using samples BRA-BRGWA-2S, BRA-BRGWC-29I and BRA-BRGWC-45. The recovery results were within the laboratory specified acceptance criteria.

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three LCSs were reported for radium-226 and three LCSs were reported for radium-228. The recovery results were within the laboratory specified acceptance criteria.

1.6 Laboratory Duplicate

Three sample set specific laboratory duplicates were reported for radium-226 using samples BRA-BRGWA-2S, BRA-BRGWC-29I and BRA-BRGWC-45 and three sample set specific laboratory duplicates were reported for radium-228 using samples BRA-BRGWA-2S, BRA-BRGWC-29I and BRA-BRGWC-45. The replicate error ratio (RER) results were within the laboratory specified acceptance criteria.

1.7 Tracers and Carriers

Tracers were reported for radium-228 analyses. The recovery results were within the laboratory specified acceptance criteria.

1.8 Field Blank

Five field blanks, BRA-APBCD-FB-01, BRA-APBCD-FB-02, BRA-APBCD-FB-03, BRA-APE-FB-07 and BRA-APE-FB-08 were collected with the sample set. Radium-226 and Radium-228 were not detected in the field blanks at or above the MDCs.

1.9 Equipment Blank

Five equipment blanks, BRA-APBCD-EB-04, BRA-APBCD-EB-05 and BRA-APBCD-EB-06 BRA-APE-EB-09 and BRA-APE-EB-10 were collected with the sample set. Radium-226 and radium-228 were not detected in the equipment blanks at or above the MDCs, with the following exceptions.

Radium-226 (0.493 pCi/L) and combined radium 226 and 228 (1.91 pCi/L) were detected in the BRA-APE-EB-09 at concentrations greater than the MDC. Radium-226 (0.263 pCi/L) was detected in the BRA-APE-EB-10 at a concentration greater than the MDC. The associated samples were qualified as follows:

For radium-226 concentrations less than ten times the equipment blank concentration with a mean difference less than 2, the radium concentration was UJ qualified as estimated less than the reported concentration.

For samples with a UJ qualified radium-226 concentration and a radium-228 concentration less than the MDC, the total radium concentration was UJ qualified as estimated less than the reported concentration. For samples with a UJ qualified radium-226 concentration and a radium-228 concentration greater than the MDC, the total radium concentration was J qualified as estimated.

Sample ID	Compound	Laboratory Result (pCi/L)	Laboratory Flag	Validation Result (pCi/L)	Validation Qualifier	Reason Code
BRA-BRGWA-2I	Radium-226	0.878	NA	0.878	UJ	BEH
BRA-BRGWC-17S	Radium-226	1.36	NA	1.36	UJ	BEH
BRA-BRGWC-35S	Radium-226	0.556	NA	0.556	UJ	BEH
BRA-BRGWC-30I	Radium-226	1.71	NA	1.71	UJ	BEH
BRA-BRGWC-32S	Radium-226	0.572	NA	0.572	UJ	BEH
BRA-APE-FD-05	Radium-226	1.14	NA	1.14	UJ	BEH
BRA-BRGWC-33S	Radium-226	1.15	NA	1.15	UJ	BEH
BRA-BRGWC-34S	Radium-226	0.888	NA	0.888	UJ	BEH

Sample ID	Compound	Laboratory Result (pCi/L)	Laboratory Flag	Validation Result (pCi/L)	Validation Qualifier	Reason Code
BRA-BRGWC-36S	Radium-226	2.18	NA	2.18	UJ	BEH
BRA-BRGWC-37S	Radium-226	0.604	NA	0.604	UJ	BEH
BRA-BRGWC-38S	Radium-226	0.768	NA	0.768	UJ	BEH
BRA-PZ-52D	Radium-226	0.360	NA	0.360	UJ	BEH
BRA-PZ-70I	Radium-226	0.620	NA	0.620	UJ	BEH
BRA-BRGWC-25I	Radium-226	2.70	NA	2.70	UJ	BEH
BRA-BRGWC-27I	Radium-226	1.12	NA	1.12	UJ	BEH
BRA-BRGWC-29I	Radium-226	2.01	NA	2.01	UJ	BEH
BRA-BRGWA-2I	Combined Radium 226 + 228	1.25	NA	1.25	UJ	BEH
BRA-BRGWC-17S	Combined Radium 226 + 228	1.36	NA	1.36	UJ	BEH
BRA-BRGWC-35S	Combined Radium 226 + 228	2.40	NA	2.40	UJ	BEH
BRA-APE-FD-05	Combined Radium 226 + 228	1.80	NA	1.80	UJ	BEH
BRA-BRGWC-36S	Combined Radium 226 + 228	2.31	NA	2.31	UJ	BEH
BRA-BRGWC-37S	Combined Radium 226 + 228	1.74	NA	1.74	UJ	BEH
BRA-PZ-70I	Combined Radium 226 + 228	1.55	NA	1.55	UJ	BEH
BRA-BRGWC-30I	Combined Radium 226 + 228	4.11	NA	4.11	J	BEH
BRA-BRGWC-32S	Combined Radium 226 + 228	0.572	U	0.572	UJ	BEH
BRA-BRGWC-33S	Combined Radium 226 + 228	2.66	NA	2.66	J	BEH
BRA-BRGWC-34S	Combined Radium 226 + 228	1.31	U	1.31	UJ	BEH
BRA-BRGWC-38S	Combined Radium 226 + 228	2.98	NA	2.98	J	BEH
BRA-PZ-52D	Combined Radium 226 + 228	2.54	NA	2.54	J	BEH
BRA-BRGWC-25I	Combined Radium 226 + 228	3.78	NA	3.78	UJ	BEH
BRA-BRGWC-27I	Combined Radium 226 + 228	1.49	U	1.49	UJ	BEH
BRA-BRGWC-29I	Combined Radium 226 + 228	3.01	NA	3.01	UJ	BEH

pCi/L-picocuries per liter
NA-not applicable

1.10 Field Duplicate

Five field duplicate samples, BRA-APBCD-FD-01, BRA-APBCD-FD-02, BRA-APBCD-FD-03, BRA-APE-FD-04 and BRA-APE-FD-05 were collected with the sample set. Acceptable precision

[RER (1σ) < 3] was demonstrated between the field duplicates and the original samples, BRA-PZ-44, BRA-BRGWC-52I, BRA-PZ-60I, BRGWC-35S and BRGWC-33S, respectively.

1.11 Sensitivity

The samples were reported to the MDCs. Elevated non-detect results were not reported.

1.12 Electronic Data Deliverable Review

The results and sample IDs in the EDDs were reviewed against the information provided by the associated level II reports at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II reports and the EDDs.

**DATA VALIDATION QUALIFIER DEFINITIONS
AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team**

DATA QUALIFIER DEFINITIONS

U The analyte was analyzed for, but was not detected above the reported sample quantitation limit. Upon application of the U qualifier to a reported result, the definition changes to "not detected at or above the reported result."

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

J+ The analyte was positively identified; however, the associated numerical value is likely to be higher than the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.

J- The analyte was positively identified; however, the associated numerical value is likely to be lower than the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec's Data Validation Team

DQM Reason Code	Description
AB1	> Samples in batch
AB2	QC sample missing
AB3	Batch analysis time exceeded
BAH	Contamination detected in the Ambient Blank greater than or equal to the Quantitation Limit.
BAL	Contamination detected in the Ambient Blank less than the Quantitation Limit.
BC	Calibration blank contamination
BC1	assoc. result < RL
BC2	assoc. result > RL < mult.
BC3	assoc. result > RL > mult.
BEH	Contamination detected in the Equipment Blank greater than or equal to the Quantitation Limit.
BEL	Contamination detected in the Equipment Blank less than the Quantitation Limit.
BF	Field blank contamination
BF1	assoc. result < RL
BF2	assoc. result > RL < mult.
BF3	assoc. result > RL > mult.
BFH	Contamination detected in the Field Blank greater than or equal to the Quantitation Limit.
BFL	Contamination detected in the Field Blank less than the Quantitation Limit.
BL	Laboratory blank contamination
BL1	assoc. result < RL

DQM Reason Code	Description
BL2	assoc. result > RL < mult.
BL3	assoc. result > RL > mult.
BLH	Contamination detected in the Lab Blank greater than or equal to the Quantitation Limit.
BLL	Contamination detected in the Lab Blank less than the Quantitation Limit.
BT	Trip blank contamination
BT1	assoc. result < RL
BT2	assoc. result > RL < mult.
BT3	assoc. result > RL > mult.
BTH	Contamination detected in the Trip Blank greater than or equal to the Quantitation Limit.
BTL	Contamination detected in the Trip Blank less than the Quantitation Limit.
CA1	Column difference
CC1	CCV %D
CC2	CCV %R
CC3	CCV RRF
CI1	IC RSD
CI2	IC RRF
CR1	Calibration range
CV1	ICV or CCV %D
CV2	ICV or CCV %R
CV3	ICV CCV RRF
DF1	Dilution Factor > 1

DQM Reason Code	Description
DL	Dilution Factor > 1
DVT1	The Dissolved Result > Total Result and the absolute difference > the AD_MULTIPLIER_CL * Detection Limit
DVT2	The Dissolved Result > Total Result and the absolute difference > AD_MULTIPLIER_UCO * Detection Limit
DVT3	The Dissolved Result > Total Result and the relative percent difference (RPD) > RPD_CL
DVT4	The Dissolved Result > Total Result and the relative percent difference (RPD) > RPD_UCO
ER1	MDL=<RESULT<RL (INORGANIC)
ER2	MDL=<RESULT<RL (ORGANIC)
FBC1	BLANK CONTAMINATION
FBC2	RESULT < BLANK * MULTIPLIER
FBC3	RESULT > BLANK * MULTIPLIER
FD1	Field duplicate RPD
FD2	Field duplicate abs. diff.
GHT1	GROSS_QUALIFIER_HIT
GHT2	GROSS_QUALIFIER_NON_DETECT
HP1	Hydrocarbon pattern
HT1	Holding time samp. to preservation
HT2	Holding time samp. to analysis
HT3	Holding time gros. samp. to pres.
HT4	Holding time gros. samp. to analysis
IS1	Internal standard
LBC1	BLANK CONTAMINATION

DQM Reason Code	Description
LBC2	RESULT < BLANK * MULTIPLIER
LBC3	RESULT > BLANK * MULTIPLIER
LD1	Lab duplicate RPD
LD2	Lab duplicate abs. diff.
LS1	LS %R
LS2	LS RPD
MS1	MS %R
MS2	MS RPD
MS3	Parent >4x spike
MS4	Spike diluted out
NP1	Non-Preferred Result
NR1	NUMERIC RESULTS
OT1	Other quality issue
PS1	BETWEEN CONTROL AND WARNING LIMITS
PS2	INVALID
PS3	LESS THAN LOWER CONTROL LIMIT
PS4	LESS THAN LOWER WARNING LIMIT
PT1	The preservative for this test id does not match the required preservative in RT_HOLDING_TIME.
RDL1	EXCEEDS REQUIRED DETECTION LIMIT
RL1	ND > project limit
RO1	Other rad. issue
RPD1	LCS/LCSD
RPD2	LCS/LCSD_NON_DETECT
RPD3	MS/MSD
RPD4	MS/MSD_NON_DETECT

DQM Reason Code	Description
RPD5	Orig/Dup
RPD6	Orig/Dup_NON_DETECT
RPDF1	FIELD DUPLICATE
RPDF2	FIELD DUPLICATE NON_DETECT
RQ1	Rad. quantitation issue
RR1	Repeated result same method
RR2	Repeated result diff. method
RSD1	RSD exceeds CL for LCS sample
RSD2	RSD exceeds CL for MS sample
RSD3	RSD exceeds CL for Lab sample
RSD4	RSD exceeds CL for Field sample
RY1	Tracer or carrier
SD1	Serial dilution
SO1	High moisture
SO2	Wet weight
SP1	Preservation, temp
SP2	Preservation, pH
SP3	Preservation, headspace
SPR1	BLANK SPIKE > UCL
SPR10	EarthSoft.DQM.SpikeRecovery2
SPR11	EarthSoft.DQM.SpikeRecovery2
SPR12	EarthSoft.DQM.SpikeRecovery2
SPR2	INORGANIC SPIKE > UCL
SPR3	ORGANIC SPIKE > UCL
SPR4	LCL > BLANK > LOW_CUTOFF
SPR5	LCL > INORG > LOW_CUTOFF
SPR6	LCL > ORG > LOW_CUTOFF
SPR7	BLANK SPIKE < LOW_CUTOFF

DQM Reason Code	Description
SPR8	INORGANIC SPIKE < LOW_CUTOFF
SPR9	ORGANIC SPIKE < LOW_CUTOFF
SU	Surrogate outlier
SU1	Surrogate
SU2	Surrogate diluted out
SURR1	ASSO. DETECTS OF LCL > REC > LOW_CUTOFF
SURR10	EarthSoft.DQM.SurrogateRecovery
SURR11	EarthSoft.DQM.SurrogateRecovery
SURR12	EarthSoft.DQM.SurrogateRecovery
SURR2	ASSO. DETECTS OF REC < LOW_CUTOFF
SURR3	ASSO. DETECTS OF REC > UCL
SURR4	ASSO. NDS OF LCL > REC > LOW_CUTOFF
SURR5	ASSO. NDS OF REC < LOW_CUTOFF
SURR6	ASSO. NDS OF REC > UCL
SURR7	LCL > REC > LOW_CUTOFF
SURR8	REC < LOW_CUTOFF
SURR9	REC > UCL
TBC1	BLANK CONTAMINATION
TBC2	RESULT < BLANK * MULTIPLIER
TBC3	RESULT > BLANK * MULTIPLIER
TR	Trace Detection
TR1	Trace detection
TRA1	Tracer is outside of UCL or LCL
TRA2	Associated result of a tracer less than the LCL
TRA3	Associated detect result of a tracer greater than the UCL
VC1	Canister vacuum
VC2	Canister contamination

DQM Reason Code	Description
VSU1	INVALID SAMPLE UNIT TYPE
VSU2	MISSING SAMPLE UNIT TYPE
VSU3	NON-DEFAULT RESULT UNIT

AD-Absolute Difference
CCV-Continuous Calibration Verification
CL-Control Limit
%D-Percent Difference
IC-Initial Calibration
ICV-Initial Calibration Verification
INORG-Inorganic
LCL-Lower Control Limit
LCS-Laboratory Control Spike
LCSD-Laboratory Control Spike Duplicate
LS-Laboratory Spike
MDL-Method Detection Limit
MS-Matrix Spike
MSD-Matrix Spike Duplicate
ND-Not Detected
ORG-Organic
QC-Quality Control
%R-Percent Recovery
REC-Recovery
RL-Reporting Limit
RPD-Relative Percent Difference
RRF-Relative Response Factor
RSD-Relative Standard Deviation
UCL-Upper Control Limit
UCO-Upper Cut Off

APPENDIX C

Statistical Analyses: August 2023 and January 2024

GROUNDWATER STATS CONSULTING

February 28, 2024

Southern Company Services
Attn: Mr. Joju Abraham
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308-3374

Re: Plant Branch Ponds B, C, D – August/September 2023 Statistical Analysis

Dear Mr. Abraham,

Groundwater Stats Consulting (GSC), formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the August/September 2023 Semi-Annual Groundwater Detection and Assessment Monitoring Statistical Analysis of groundwater data for Georgia Power Company's Plant Branch Ponds B, C, and D. The analysis complies with the Georgia Environmental Protection Division (EPD) Rules for Solid Waste Management Chapter 391-3-4-.10 as well as with the United States Environmental Protection Agency (USEPA) Unified Guidance (2009). The site is in Assessment Monitoring.

Sampling began for Appendix III and IV parameters in 2016 for most wells. However, sampling for wells BRGWC-45, BRGWC-47, BRGWC-50 and BRGWC-52I began in 2018, and at least 8 background samples have been collected at each of the groundwater monitoring wells. Semi-annual sampling of the majority of constituents has been performed for several years in accordance with the Georgia Department of Natural Resources, Environmental Protection Division groundwater monitoring regulations.

The monitoring well network, as provided by Southern Company Services, consists of the following:

- **Upgradient well:** BRGWA-2I, BRGWA-2S, BRGWA-5I, BRGWA-5S, BRGWA-6S, and BRGWA-23S
- **Downgradient wells:** BRGWC-25I, BRGWC-27I, BRGWC-29I, BRGWC-30I, BRGWC-32S, BRGWC-45, BRGWC-47, BRGWC-50, and BRGWC-52I
- **Assessment wells:** PZ-44, PZ-50D, PZ-51D, PZ-51I, PZ-58I, PZ-60I, PZ-61I, PZ-63I, PZ-64I, PZ-68D, PZ-74I, and PZ-75I

Previously, the monitoring well network included upgradient wells BRGWA-12I and BRGWA-12S, and assessment wells PZ-51S, PZ-57I, PZ-59I, PZ-62I, PZ-65I, PZ-66I, and PZ-69I. Upgradient wells BRGWA-12I and BRGWA-12S were abandoned, but data from these upgradient wells will continue to be included in construction of interwell prediction limits and interwell upper tolerance limits since the data represents historical groundwater quality upgradient of the facility. Assessment wells PZ-51S, PZ-57I, PZ-59I, PZ-62I, PZ-65I, PZ-66I, and PZ-69I are not included in this analysis, per request of Geosyntec Consultants Inc. New assessment wells PZ-74I, and PZ-75I were included in the well network and are plotted on time series and box plots. Data from assessment wells are evaluated using confidence intervals when a minimum of 4 samples are available.

Data were sent electronically to GSC, and the statistical analysis was reviewed by Andrew Collins, Project Manager of GSC.

The Coal Combustion Residuals (CCR) program consists of the following constituents:

- **Appendix III** (Detection Monitoring) **-** boron, calcium, chloride, fluoride, pH, sulfate, and TDS
- **Appendix IV** (Assessment Monitoring) **–** antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, combined radium 226 + 228, fluoride, lead, lithium, mercury, molybdenum, selenium, and thallium

Note that when there are no detections present in downgradient wells for a given constituent, statistical analyses are not required. A summary of Appendix IV downgradient and assessment well/constituent pairs with 100% non-detects follows this letter. A substitution of the most recent reporting limit is used for non-detect data.

Time series plots for Appendix III and IV parameters at all wells are provided for the purpose of screening data at these wells (Figure A). Assessment well data are included on the time series graphs, and with the confidence intervals when a minimum of 4 samples are available as discussed above. Additionally, a separate section of box plots is included for all constituents at upgradient and downgradient wells (Figure B). The time series plots are used to initially screen for suspected outliers and trends, while the box plots provide visual representation of variation within individual wells and between all wells. Values in background which have been flagged as outliers may be seen in a lighter font and as a disconnected symbol on the graphs. A summary of flagged outliers follows this report (Figure C).

In earlier analyses, data at all wells were evaluated for the following: 1) outliers; 2) trends; 3) most appropriate statistical method for Appendix III parameters based on site

characteristics of groundwater data upgradient of the facility; and 4) eligibility of downgradient wells when intrawell statistical methods are recommended. Power curves were provided with the previous screening to demonstrate that the selected statistical methods for Appendix III parameters comply with the USEPA Unified Guidance. The EPA suggests the selected statistical method should provide at least 55% power at 3 standard deviations or at least 80% power at 4 standard deviations.

Summary of Statistical Methods – Appendix III Parameters:

Based on the earlier evaluation described above, the following method was selected:

- Interwell prediction limits, combined with a 1-of-2 resample plan for boron, calcium, chloride, fluoride, pH, sulfate, and TDS

Parametric prediction limits are utilized when the screened historical data follow a normal or transformed-normal distribution. When data cannot be normalized or the majority of data are non-detects, a nonparametric test is utilized. While the false positive rate associated with the parametric limits is based on an annual 10% (5% per semi-annual event) as recommended by the EPA Unified Guidance (2009), the false positive rate associated with the nonparametric limits is dependent upon the available background sample size, number of future comparisons, and verification resample plan. The distribution of data is tested using the Shapiro-Wilk/Shapiro-Francia test for normality. After testing for normality and performing any adjustments as discussed below (US EPA, 2009), data are analyzed using either parametric or non-parametric prediction limits.

After testing for normality and performing any adjustments as discussed below (US EPA, 2009), data are analyzed using either parametric or non-parametric prediction limits.

- No statistical analyses are required on wells and analytes containing 100% non-detects (USEPA Unified Guidance, 2009, Chapter 6).
- When data contain <15% non-detects, simple substitution of one-half the most reporting limit is utilized in the statistical analysis. The reporting limit utilized for non-detects is the most recent practical quantification limit (PQL) as reported by the laboratory.
- When data contain between 15-50% non-detects, the Kaplan-Meier non-detect adjustment is applied to the background data for parametric limits. This technique adjusts the mean and standard deviation of the historical concentrations to account for concentrations below the reporting limit.
- Nonparametric prediction limits are used on data containing greater than 50% non-detects.

Natural systems continuously evolve due to physical changes made to the environment. Examples include capping a landfill, paving areas near a well, or lining a drainage channel to prevent erosion. Periodic updating of background statistical limits is necessary to accommodate these types of changes. In the interwell case, prediction limits are updated with upgradient well data during each event after careful screening for any new outliers. In some cases, the earlier portion of data are deselected prior to construction of limits to provide sensitive limits that will rapidly detect changes in groundwater quality. Even though the data are excluded from the calculation, the values will continue to be reported and shown in tables and graphs.

Summary of Background Screening – Conducted in March 2019

Outlier Analysis

Time series plots were used to identify suspected outliers, or extreme values that would result in limits that are not conservative from a regulatory perspective, in proposed background data. Suspected outliers at all wells for Appendix III and Appendix IV parameters were formally tested using Tukey's box plot method and, when identified either visually or by Tukey's test, flagged in the computer database with "o" and deselected prior to construction of statistical limits. A list of flagged values is provided in the outlier summary. Although outliers are screened for all wells, only outliers in upgradient wells will affect the interwell prediction limits. The current list of outliers includes a few additional measurements that were not flagged as outliers in the previous background screening list for Appendix III parameters.

When suspected outliers were evaluated using the Tukey box plot method during the previous screening, several outliers were identified. In cases where the most recent value was identified as an outlier, values were not flagged in the database as they may represent a future trend. If future values do not remain at similar concentrations, these values will be flagged as outliers and deselected. Several low values exist in the data sets and appear on the graphs as possible low outliers relative to the Practical Quantitation Limit. However, these values are observed trace values (i.e., measurements reported by the laboratory between the Method Detection Limit and the Practical Quantitation Limit) and, therefore, were not flagged as outliers.

When any values are flagged in the database as outliers, they are plotted in a disconnected and lighter symbol on the time series graph. A substitution of the most recent reporting limit was applied when varying detection limits existed in data. Note that the reporting limit for boron during the March 2019 event was 0.1 mg/L; however, the

historical reporting limit of 0.04 mg/L was substituted at that time for all non-detects which provided more conservative (lower) statistical limits.

Seasonality

No obvious seasonal patterns were observed on the time series plots for any of the detected data; therefore, no deseasonalizing adjustments were made to the data. When seasonal patterns are observed, data may be deseasonalized so that the resulting limits will correctly account for the seasonality as a predictable pattern rather than random variation or a release.

Trend Tests

While trends may be identified by visual inspection, a quantification of the trend and its significance is needed. The Sen's Slope/Mann Kendall trend test was used to evaluate all data at each well to identify statistically significant increasing or decreasing trends. In the absence of suspected contamination, significant trending data are typically not included as part of the background data used for construction of prediction limits. This step serves to eliminate the trend and, thus, reduce variation in background. When statistically significant decreasing trends are present, earlier data are evaluated to determine whether earlier concentration levels are significantly different than current reported concentrations and will be deselected as necessary. When the historical records of data are truncated for the reasons above, a summary report will be provided to show the date ranges used in construction of the statistical limits.

The results of the trend analyses, included with the background screening report, showed a number of statistically significant decreasing trends for the Appendix III parameters. All trends noted were relatively low in magnitude when compared to average concentrations; therefore, no adjustments were made to the data sets.

Appendix III – Determination of Spatial Variation

The Analysis of Variance (ANOVA) was used to statistically evaluate differences in average concentrations among upgradient wells, which assists in identifying the most appropriate statistical approach. Interwell tests, which compare downgradient well data to statistical limits constructed from pooled upgradient well data, are appropriate when average concentrations are similar across upgradient wells. Intrawell tests, which compare compliance data from a single well to screened historical data within the same well, are appropriate when upgradient wells exhibit spatial variation; when statistical limits constructed from upgradient wells would not be conservative from a regulatory

perspective; and when downgradient water quality is unimpacted compared to upgradient water quality for the same parameter.

The ANOVA identified no variation among upgradient well data for fluoride, making this constituent eligible for interwell analyses. Variation was noted for boron, calcium, chloride, pH, sulfate, and TDS. While data were further tested for intrawell eligibility during the screening, interwell methods will be used for all Appendix III constituents in accordance with Georgia EPD requirements.

Evaluation of Appendix III Parameters – August/September 2023

Interwell Prediction Limits

Interwell prediction limits, combined with a 1-of-2 resample plan, were constructed using all historical upgradient well data through August 2023 (Figure D). Background (upgradient) well data were reassessed for potential outliers during this analysis and no new values were flagged. Interwell prediction limits pool upgradient well data to establish a background limit for an individual constituent. As mentioned above, data from abandoned upgradient wells BRGWA-12I and BRGWA-12S are included in calculations for interwell upper tolerance limits. The August 2023 sample from each downgradient well is compared to the background limit to determine whether initial exceedances are present.

In the event of an initial exceedance of compliance well data, the 1-of-2 resample plan allows for collection of one additional sample to determine whether the initial exceedance is confirmed. When resamples confirm the initial exceedance, a statistically significant increase is identified, and further research would be required to identify the cause of the exceedance (i.e., impact from the site, natural variation, or an off-site source). If the resample falls within the statistical limit, the initial exceedance is considered to be a false positive result; therefore, no exceedance is noted and no further action is necessary. If no resample is collected, the original result is considered a confirmed exceedance. Prediction limit exceedances were noted for several Appendix III parameters. Exceedances were identified for the following well/constituent pairs:

- Boron: BRGWC-25I, BRGWC-27I, BRGWC-29I, BRGWC-30I, BRGWC-32S, BRGWC-47, BRGWC-50, and BRGWC-52I
- Calcium: BRGWC-25I, BRGWC-27I, BRGWC-29I, BRGWC-30I, BRGWC-32S, BRGWC-45, BRGWC-47, BRGWC-50, and BRGWC-52I
- Chloride: BRGWC-25I, BRGWC-29I, BRGWC-45, BRGWC-50, and BRGWC-52I

- Fluoride: BRGWC-50
- pH (lower limit): BRGWC-29I and BRGWC-50
- Sulfate: BRGWC-25I, BRGWC-27I, BRGWC-29I, BRGWC-30I, BRGWC-32S, BRGWC-45, BRGWC-47, BRGWC-50, and BRGWC-52I
- TDS: BRGWC-25I, BRGWC-27I, BRGWC-29I, BRGWC-30I, BRGWC-32S, BRGWC-45, BRGWC-47, BRGWC-50, and BRGWC-52I

Trend Test Evaluation – Appendix III

When prediction limit exceedances are identified in downgradient wells, data are further evaluated using the Sen's Slope/Mann Kendall trend test to determine whether concentrations are statistically increasing, decreasing, or stable at the 99% confidence level (Figure E). Upgradient wells are included in the trend analyses to identify whether similar patterns exist upgradient of the site which is an indication of variability in groundwater unrelated to practices at the site. A summary of the trend test results follows this letter and statistically significant trends were identified for the following well/constituent pairs:

Increasing:
- Boron: BRGWC-47
- Calcium: BRGWA-6S (upgradient) and BRGWC-30I
- Fluoride: BRGWA-5I
- Sulfate: BRGWC-30I
- TDS: BRGWC-30I

Decreasing:
- Boron: BRGWC-29I
- Calcium: BRGWA-23S (upgradient), BRGWC-25I, and BRGWC-45
- Chloride: BRGWA-12I (upgradient), BRGWA-23S (upgradient), BRGWA-5I (upgradient), BRGWA-5S (upgradient), BRGWC-45, BRGWC-50, and BRGWC-52I
- pH: BRGWA-2I (upgradient), BRGWA-2S (upgradient), and BRGWA-5S (upgradient)
- Sulfate: BRGWA-12I (upgradient), BRGWA-12S (upgradient), BRGWA-23S (upgradient), BRGWC-25I, BRGWC-27I, and BRGWC-32S
- TDS: BRGWA-5S (upgradient), BRGWA-23S (upgradient), BRGWC-25I, BRGWC-27I, BRGWC-29I, BRGWC-32S, BRGWC-45, BRGWC-47, and BRGWC-50

Evaluation of Appendix IV Parameters – August/September 2023

For Appendix IV parameters, confidence intervals for each downgradient well/constituent pair were compared against corresponding Groundwater Protection Standards (GWPS). GWPS were developed as described below. Well/constituent pairs containing 100% non-detects do not require analysis. Data from upgradient wells for Appendix IV parameters are reassessed for outliers during each analysis. No new values were flagged and a summary of previously flagged outliers follows this report (Figure C).

Interwell Upper Tolerance Limits

Interwell tolerance limits were used to calculate site-specific background limits from all available pooled upgradient well data through August 2023 for Appendix IV constituents (Figure F). Parametric tolerance limits are used when data follow a normal or transformed-normal distribution. When data contained greater than 50% non-detects or did not follow a normal or transformed-normal distribution, non-parametric tolerance limits were used.

Groundwater Protection Standards

The background limits were then used when determining the groundwater protection standard (GWPS) under 40 CFR §257.95(h) and Georgia EPD Rule 391-3-4-.10(6)(a). On July 30, 2018, US EPA revised the Federal CCR rule updating GWPS for cobalt, lead, lithium, and molybdenum as described above in 40 CFR §257.95(h)(2). Effective on February 22, 2022, Georgia EPD incorporated the updated GWPS into the current Georgia EPD Rules for Solid Waste Management 391-3-4-.10(6)(a). In accordance with the updated Rules, the GWPS is:

- The maximum contaminant level (MCL) established under §141.62 and §141.66 of this title
- Where an MCL has not been established for a constituent, Federal and State CCR Rules specify levels for cobalt (0.006 mg/L), lead (0.015 mg/L), lithium (0.040 mg/L), and molybdenum (0.100 mg/L)
- The respective background level for a constituent when the background level is higher than the MCL or Federal CCR Rule identified GWPS

Following Georgia EPD Rule requirements and the Federal CCR requirements, GWPS were established for statistical comparison of Appendix IV constituents for this sample event (Figure G). Note that due to the stead increase in concentrations for antimony at upgradient well BRGWA-12I, the MCL was used in lieu of the Background limit for antimony to maintain a GWPS that is conservative from a regulatory perspective.

Confidence Intervals

To complete the statistical comparison to GWPS, confidence intervals were constructed for each of the Appendix IV constituents in each downgradient well with detections (Figure H). These intervals were constructed as either parametric or nonparametric confidence intervals depending on the data distribution and percentage of non-detects. When data followed a normal or transformed-normal distribution, parametric confidence intervals were used for Appendix IV parameters. Nonparametric confidence intervals, which use the highest and lowest values in background as interval limits, were constructed when data did not follow a normal or transformed-normal distribution or when there were greater than 50% non-detects. The lower confidence limit, which is constructed with 99% confidence for parametric confidence intervals, is compared to the GWPS prepared as described above.

Note that due to the limited sample size, the lower confidence limit of a parametric confidence interval resulted in a negative number for cobalt at assessment well PZ-50D and for combined radium 226 + 228 at assessment well PZ-63I. Additionally, concentrations for lithium at PZ-60I remain above the GWPS of 0.089 mg/L. Therefore, non-parametric confidence intervals, which are bound by reported high and low measurements within a given well when n<=8, were constructed for these particular cases and follows the confidence intervals (Figure H). This is a more conservative approach in that the lower confidence limit reflects the lowest reported measurement in the data.

When evaluating the entire record of data for selenium at downgradient well BRGWC-32S and beryllium at downgradient well BRGWC-50, steady increasing trends in concentrations since 2019 for selenium and since 2020 for beryllium were noted. Therefore, the confidence intervals evaluate data since 2019 and 2020, respectively, for these well/constituent pairs. Only when the entire confidence interval is above a GWPS is the downgradient well/constituent pair considered to exceed its respective standard. If there is an exceedance of the GWPS, a statistically significant level (SSL) exceedance is identified.

Statistical exceedances were identified for the following well/constituent pairs:

- Beryllium: BRGWC-50, PZ-58I, and PZ-60I
- Cadmium: BRGWC-50 and PZ-60I
- Cobalt: BRGWC-50, PZ-51I, PZ-58I, PZ-60I, and PZ-61I
- Lithium: PZ-60I
- Selenium: BRGWC-32S

Trend Test Evaluation – Appendix IV

Data at wells with confidence interval exceedances are further evaluated using the Sen's Slope/Mann Kendall trend test at the 95% confidence level to determine whether concentrations are statistically increasing, decreasing, or stable (Figure I). Although the trend tests for Assessment monitoring pairs were previously evaluated using 99% confidence, the 95% confidence level more rapidly identifies statistically significant trends. Additionally, the 95% confidence is recommended in cases with limited sample sizes and, particularly, for new assessment wells. Upgradient wells are included in the trend analyses to identify whether similar patterns exist upgradient of the site for the same constituents. When trends are present in upgradient wells, it is an indication of variability in groundwater quality unrelated to practices at the site. Note that the trend tests have meaningful results once well/constituent pairs have greater than 5 samples. A summary of the Appendix IV trend test results follows this letter. The following statistically significant trends were identified:

Increasing
- Beryllium: BRGWC-50
- Selenium: BRGWC-32S

Decreasing
- Cadmium: BRGWC-50
- Cobalt: BRGWA-2S, BRGWA-5I, and BRGWA-23S (all upgradient)

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for Plant Branch Ponds B, C, D. If you have any questions or comments, please feel free to contact us.

For Groundwater Stats Consulting,

Abdul Diane
Groundwater Analyst

Andrew T. Collins
Project Manager

Sanitas™ v.10.0.15 Software licensed to Groundwater Stats Consulting. UG

Date Ranges

Date: 1/31/2024 2:04 PM

Plant Branch Client: Southern Company Data: Plant Branch AP

Beryllium (mg/L)

BRGWC-50 overall:3/4/2020-9/8/2023

Selenium (mg/L)

BRGWC-32S overall:8/27/2019-8/21/2023

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100% Non-Detects: Appendix IV Downgradient & Assessment

Analysis Run 1/31/2024 1:44 PM View: Pond BCD Appendix IV - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

Antimony (mg/L)
BRGWC-25I, BRGWC-27I, PZ-44, PZ-58I, PZ-60I, PZ-61I, PZ-63I

Arsenic (mg/L)
PZ-63I

Beryllium (mg/L)
BRGWC-25I, BRGWC-30I, BRGWC-32S, BRGWC-52I, PZ-44, PZ-51D, PZ-63I

Cadmium (mg/L)
BRGWC-25I, BRGWC-29I, BRGWC-52I, PZ-44, PZ-50D, PZ-51D, PZ-63I

Chromium (mg/L)
PZ-44, PZ-50D, PZ-51D, PZ-58I, PZ-60I, PZ-63I

Cobalt (mg/L)
PZ-44

Lead (mg/L)
BRGWC-32S, PZ-44, PZ-60I, PZ-63I

Lithium (mg/L)
BRGWC-25I

Mercury (mg/L)
BRGWC-45, BRGWC-47, BRGWC-50, BRGWC-52I, PZ-44, PZ-50D, PZ-51D, PZ-58I, PZ-60I, PZ-61I, PZ-63I

Molybdenum (mg/L)
BRGWC-27I, BRGWC-29I, BRGWC-32S, PZ-44, PZ-58I, PZ-60I, PZ-61I

Selenium (mg/L)
BRGWC-52I, PZ-44, PZ-50D, PZ-51D, PZ-51I, PZ-63I

Thallium (mg/L)
BRGWC-25I, BRGWC-27I, BRGWC-30I, BRGWC-32S, BRGWC-45, BRGWC-47, BRGWC-50, BRGWC-52I, PZ-44, PZ-50D, PZ-51D, PZ-51I, PZ-58I, PZ-60I, PZ-61I, PZ-63I

Appendix III Interwell Prediction Limits - Significant Results

Plant Branch Data: Plant Branch AP Printed 10/23/2023, 6:51 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	BRGWC-25I	0.068	n/a	9/6/2023	1.95	Yes	142	n/a	n/a	52.11	n/a	n/a	0.00009726	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-27I	0.068	n/a	9/6/2023	1.25	Yes	142	n/a	n/a	52.11	n/a	n/a	0.00009726	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-29I	0.068	n/a	9/6/2023	1.34	Yes	142	n/a	n/a	52.11	n/a	n/a	0.00009726	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-30I	0.068	n/a	9/1/2023	2.05	Yes	142	n/a	n/a	52.11	n/a	n/a	0.00009726	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-32S	0.068	n/a	9/1/2023	1.13	Yes	142	n/a	n/a	52.11	n/a	n/a	0.00009726	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-47	0.068	n/a	9/6/2023	0.689	Yes	142	n/a	n/a	52.11	n/a	n/a	0.00009726	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-50	0.068	n/a	9/8/2023	0.372	Yes	142	n/a	n/a	52.11	n/a	n/a	0.00009726	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-52I	0.068	n/a	9/6/2023	1.87	Yes	142	n/a	n/a	52.11	n/a	n/a	0.00009726	NP Inter (NDs) 1 of 2
Calcium (mg/L)	BRGWC-25I	24	n/a	9/6/2023	69.6	Yes	144	n/a	n/a	4.167	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-27I	24	n/a	9/6/2023	74.4	Yes	144	n/a	n/a	4.167	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-29I	24	n/a	9/6/2023	71.4	Yes	144	n/a	n/a	4.167	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-30I	24	n/a	9/1/2023	414	Yes	144	n/a	n/a	4.167	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-32S	24	n/a	8/31/2023	45.1	Yes	144	n/a	n/a	4.167	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-45	24	n/a	9/6/2023	34	Yes	144	n/a	n/a	4.167	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-47	24	n/a	9/6/2023	347	Yes	144	n/a	n/a	4.167	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-50	24	n/a	9/8/2023	214	Yes	144	n/a	n/a	4.167	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-52I	24	n/a	9/6/2023	37.4	Yes	144	n/a	n/a	4.167	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-25I	5.8	n/a	8/25/2023	8.47	Yes	144	n/a	n/a	0	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-29I	5.8	n/a	8/25/2023	6.08	Yes	144	n/a	n/a	0	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-45	5.8	n/a	8/26/2023	16.5	Yes	144	n/a	n/a	0	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-50	5.8	n/a	8/25/2023	14.8	Yes	144	n/a	n/a	0	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-52I	5.8	n/a	8/25/2023	6.28	Yes	144	n/a	n/a	0	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-50	0.42	n/a	8/24/2023	0.499	Yes	158	n/a	n/a	50	n/a	n/a	0.00007882	NP Inter (normality) 1 of 2
pH, Field (S.U.)	BRGWC-29I	7.016	5.595	8/24/2023	4.48	Yes	160	6.306	0.3824	0	None	No	0.0005373	Param Inter 1 of 2
pH, Field (S.U.)	BRGWC-50	7.016	5.595	8/23/2023	5.12	Yes	160	6.306	0.3824	0	None	No	0.0005373	Param Inter 1 of 2
Sulfate (mg/L)	BRGWC-25I	89	n/a	8/25/2023	174	Yes	144	n/a	n/a	13.19	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-27I	89	n/a	8/26/2023	94.5	Yes	144	n/a	n/a	13.19	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-29I	89	n/a	8/26/2023	288	Yes	144	n/a	n/a	13.19	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-30I	89	n/a	8/24/2023	1250	Yes	144	n/a	n/a	13.19	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-32S	89	n/a	8/24/2023	256	Yes	144	n/a	n/a	13.19	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-45	89	n/a	8/26/2023	114	Yes	144	n/a	n/a	13.19	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-47	89	n/a	8/25/2023	1300	Yes	144	n/a	n/a	13.19	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-50	89	n/a	8/25/2023	1290	Yes	144	n/a	n/a	13.19	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-52I	89	n/a	8/25/2023	150	Yes	144	n/a	n/a	13.19	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-25I	221	n/a	8/30/2023	354	Yes	143	n/a	n/a	1.399	n/a	n/a	0.00009611	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-27I	221	n/a	8/30/2023	309	Yes	143	n/a	n/a	1.399	n/a	n/a	0.00009611	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-29I	221	n/a	8/30/2023	418	Yes	143	n/a	n/a	1.399	n/a	n/a	0.00009611	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-30I	221	n/a	8/25/2023	1920	Yes	143	n/a	n/a	1.399	n/a	n/a	0.00009611	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-32S	221	n/a	8/25/2023	412	Yes	143	n/a	n/a	1.399	n/a	n/a	0.00009611	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-45	221	n/a	8/30/2023	242	Yes	143	n/a	n/a	1.399	n/a	n/a	0.00009611	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-47	221	n/a	8/30/2023	1970	Yes	143	n/a	n/a	1.399	n/a	n/a	0.00009611	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-50	221	n/a	8/30/2023	2180	Yes	143	n/a	n/a	1.399	n/a	n/a	0.00009611	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-52I	221	n/a	8/30/2023	281	Yes	143	n/a	n/a	1.399	n/a	n/a	0.00009611	NP Inter (normality) 1 of 2

Appendix III Interwell Prediction Limits - All Results

Plant Branch Data: Plant Branch AP Printed 10/23/2023, 6:51 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	**BRGWC-25I**	**0.068**	**n/a**	**9/6/2023**	**1.95**	**Yes**	**142**	**n/a**	**n/a**	**52.11**	**n/a**	**n/a**	**0.00009726**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**BRGWC-27I**	**0.068**	**n/a**	**9/6/2023**	**1.25**	**Yes**	**142**	**n/a**	**n/a**	**52.11**	**n/a**	**n/a**	**0.00009726**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**BRGWC-29I**	**0.068**	**n/a**	**9/6/2023**	**1.34**	**Yes**	**142**	**n/a**	**n/a**	**52.11**	**n/a**	**n/a**	**0.00009726**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**BRGWC-30I**	**0.068**	**n/a**	**9/1/2023**	**2.05**	**Yes**	**142**	**n/a**	**n/a**	**52.11**	**n/a**	**n/a**	**0.00009726**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**BRGWC-32S**	**0.068**	**n/a**	**9/1/2023**	**1.13**	**Yes**	**142**	**n/a**	**n/a**	**52.11**	**n/a**	**n/a**	**0.00009726**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	BRGWC-45	0.068	n/a	9/6/2023	0.0444	No	142	n/a	n/a	52.11	n/a	n/a	0.00009726	NP Inter (NDs) 1 of 2
Boron (mg/L)	**BRGWC-47**	**0.068**	**n/a**	**9/6/2023**	**0.689**	**Yes**	**142**	**n/a**	**n/a**	**52.11**	**n/a**	**n/a**	**0.00009726**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**BRGWC-50**	**0.068**	**n/a**	**9/8/2023**	**0.372**	**Yes**	**142**	**n/a**	**n/a**	**52.11**	**n/a**	**n/a**	**0.00009726**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**BRGWC-52I**	**0.068**	**n/a**	**9/6/2023**	**1.87**	**Yes**	**142**	**n/a**	**n/a**	**52.11**	**n/a**	**n/a**	**0.00009726**	**NP Inter (NDs) 1 of 2**
Calcium (mg/L)	**BRGWC-25I**	**24**	**n/a**	**9/6/2023**	**69.6**	**Yes**	**144**	**n/a**	**n/a**	**4.167**	**n/a**	**n/a**	**0.00009495**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**BRGWC-27I**	**24**	**n/a**	**9/6/2023**	**74.4**	**Yes**	**144**	**n/a**	**n/a**	**4.167**	**n/a**	**n/a**	**0.00009495**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**BRGWC-29I**	**24**	**n/a**	**9/6/2023**	**71.4**	**Yes**	**144**	**n/a**	**n/a**	**4.167**	**n/a**	**n/a**	**0.00009495**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**BRGWC-30I**	**24**	**n/a**	**9/1/2023**	**414**	**Yes**	**144**	**n/a**	**n/a**	**4.167**	**n/a**	**n/a**	**0.00009495**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**BRGWC-32S**	**24**	**n/a**	**8/31/2023**	**45.1**	**Yes**	**144**	**n/a**	**n/a**	**4.167**	**n/a**	**n/a**	**0.00009495**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**BRGWC-45**	**24**	**n/a**	**9/6/2023**	**34**	**Yes**	**144**	**n/a**	**n/a**	**4.167**	**n/a**	**n/a**	**0.00009495**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**BRGWC-47**	**24**	**n/a**	**9/6/2023**	**347**	**Yes**	**144**	**n/a**	**n/a**	**4.167**	**n/a**	**n/a**	**0.00009495**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**BRGWC-50**	**24**	**n/a**	**9/8/2023**	**214**	**Yes**	**144**	**n/a**	**n/a**	**4.167**	**n/a**	**n/a**	**0.00009495**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**BRGWC-52I**	**24**	**n/a**	**9/6/2023**	**37.4**	**Yes**	**144**	**n/a**	**n/a**	**4.167**	**n/a**	**n/a**	**0.00009495**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**BRGWC-25I**	**5.8**	**n/a**	**8/25/2023**	**8.47**	**Yes**	**144**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00009495**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	BRGWC-27I	5.8	n/a	8/25/2023	4.81	No	144	n/a	n/a	0	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Chloride (mg/L)	**BRGWC-29I**	**5.8**	**n/a**	**8/25/2023**	**6.08**	**Yes**	**144**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00009495**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	BRGWC-30I	5.8	n/a	8/23/2023	3.35	No	144	n/a	n/a	0	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-32S	5.8	n/a	8/23/2023	4.3	No	144	n/a	n/a	0	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Chloride (mg/L)	**BRGWC-45**	**5.8**	**n/a**	**8/26/2023**	**16.5**	**Yes**	**144**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00009495**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	BRGWC-47	5.8	n/a	8/25/2023	4.67	No	144	n/a	n/a	0	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Chloride (mg/L)	**BRGWC-50**	**5.8**	**n/a**	**8/25/2023**	**14.8**	**Yes**	**144**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00009495**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**BRGWC-52I**	**5.8**	**n/a**	**8/25/2023**	**6.28**	**Yes**	**144**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00009495**	**NP Inter (normality) 1 of 2**
Fluoride (mg/L)	BRGWC-25I	0.42	n/a	8/25/2023	0.25	No	158	n/a	n/a	50	n/a	n/a	0.00007882	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-27I	0.42	n/a	8/25/2023	0.302	No	158	n/a	n/a	50	n/a	n/a	0.00007882	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-29I	0.42	n/a	8/25/2023	0.0849J	No	158	n/a	n/a	50	n/a	n/a	0.00007882	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-30I	0.42	n/a	8/23/2023	0.116	No	158	n/a	n/a	50	n/a	n/a	0.00007882	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-32S	0.42	n/a	8/23/2023	0.0477J	No	158	n/a	n/a	50	n/a	n/a	0.00007882	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-45	0.42	n/a	8/25/2023	0.185	No	158	n/a	n/a	50	n/a	n/a	0.00007882	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-47	0.42	n/a	8/25/2023	0.243	No	158	n/a	n/a	50	n/a	n/a	0.00007882	NP Inter (normality) 1 of 2
Fluoride (mg/L)	**BRGWC-50**	**0.42**	**n/a**	**8/24/2023**	**0.499**	**Yes**	**158**	**n/a**	**n/a**	**50**	**n/a**	**n/a**	**0.00007882**	**NP Inter (normality) 1 of 2**
Fluoride (mg/L)	BRGWC-52I	0.42	n/a	8/25/2023	0.188J	No	158	n/a	n/a	50	n/a	n/a	0.00007882	NP Inter (normality) 1 of 2
pH, Field (S.U.)	BRGWC-25I	7.016	5.595	8/24/2023	6.14	No	160	6.306	0.3824	0	None	No	0.0005373	Param Inter 1 of 2
pH, Field (S.U.)	BRGWC-27I	7.016	5.595	8/24/2023	6.01	No	160	6.306	0.3824	0	None	No	0.0005373	Param Inter 1 of 2
pH, Field (S.U.)	**BRGWC-29I**	**7.016**	**5.595**	**8/24/2023**	**4.48**	**Yes**	**160**	**6.306**	**0.3824**	**0**	**None**	**No**	**0.0005373**	**Param Inter 1 of 2**
pH, Field (S.U.)	BRGWC-30I	7.016	5.595	8/22/2023	6.44	No	160	6.306	0.3824	0	None	No	0.0005373	Param Inter 1 of 2
pH, Field (S.U.)	BRGWC-32S	7.016	5.595	8/22/2023	5.98	No	160	6.306	0.3824	0	None	No	0.0005373	Param Inter 1 of 2
pH, Field (S.U.)	BRGWC-45	7.016	5.595	8/24/2023	5.71	No	160	6.306	0.3824	0	None	No	0.0005373	Param Inter 1 of 2
pH, Field (S.U.)	BRGWC-47	7.016	5.595	8/24/2023	5.69	No	160	6.306	0.3824	0	None	No	0.0005373	Param Inter 1 of 2
pH, Field (S.U.)	**BRGWC-50**	**7.016**	**5.595**	**8/23/2023**	**5.12**	**Yes**	**160**	**6.306**	**0.3824**	**0**	**None**	**No**	**0.0005373**	**Param Inter 1 of 2**
pH, Field (S.U.)	BRGWC-52I	7.016	5.595	8/24/2023	6.24	No	160	6.306	0.3824	0	None	No	0.0005373	Param Inter 1 of 2
Sulfate (mg/L)	**BRGWC-25I**	**89**	**n/a**	**8/25/2023**	**174**	**Yes**	**144**	**n/a**	**n/a**	**13.19**	**n/a**	**n/a**	**0.00009495**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**BRGWC-27I**	**89**	**n/a**	**8/26/2023**	**94.5**	**Yes**	**144**	**n/a**	**n/a**	**13.19**	**n/a**	**n/a**	**0.00009495**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**BRGWC-29I**	**89**	**n/a**	**8/26/2023**	**288**	**Yes**	**144**	**n/a**	**n/a**	**13.19**	**n/a**	**n/a**	**0.00009495**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**BRGWC-30I**	**89**	**n/a**	**8/24/2023**	**1250**	**Yes**	**144**	**n/a**	**n/a**	**13.19**	**n/a**	**n/a**	**0.00009495**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**BRGWC-32S**	**89**	**n/a**	**8/24/2023**	**256**	**Yes**	**144**	**n/a**	**n/a**	**13.19**	**n/a**	**n/a**	**0.00009495**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**BRGWC-45**	**89**	**n/a**	**8/26/2023**	**114**	**Yes**	**144**	**n/a**	**n/a**	**13.19**	**n/a**	**n/a**	**0.00009495**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**BRGWC-47**	**89**	**n/a**	**8/25/2023**	**1300**	**Yes**	**144**	**n/a**	**n/a**	**13.19**	**n/a**	**n/a**	**0.00009495**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**BRGWC-50**	**89**	**n/a**	**8/25/2023**	**1290**	**Yes**	**144**	**n/a**	**n/a**	**13.19**	**n/a**	**n/a**	**0.00009495**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**BRGWC-52I**	**89**	**n/a**	**8/25/2023**	**150**	**Yes**	**144**	**n/a**	**n/a**	**13.19**	**n/a**	**n/a**	**0.00009495**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids (mg/L)	**BRGWC-25I**	**221**	**n/a**	**8/30/2023**	**354**	**Yes**	**143**	**n/a**	**n/a**	**1.399**	**n/a**	**n/a**	**0.00009611**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids (mg/L)	**BRGWC-27I**	**221**	**n/a**	**8/30/2023**	**309**	**Yes**	**143**	**n/a**	**n/a**	**1.399**	**n/a**	**n/a**	**0.00009611**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids (mg/L)	**BRGWC-29I**	**221**	**n/a**	**8/30/2023**	**418**	**Yes**	**143**	**n/a**	**n/a**	**1.399**	**n/a**	**n/a**	**0.00009611**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids (mg/L)	**BRGWC-30I**	**221**	**n/a**	**8/25/2023**	**1920**	**Yes**	**143**	**n/a**	**n/a**	**1.399**	**n/a**	**n/a**	**0.00009611**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids (mg/L)	**BRGWC-32S**	**221**	**n/a**	**8/25/2023**	**412**	**Yes**	**143**	**n/a**	**n/a**	**1.399**	**n/a**	**n/a**	**0.00009611**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids (mg/L)	**BRGWC-45**	**221**	**n/a**	**8/30/2023**	**242**	**Yes**	**143**	**n/a**	**n/a**	**1.399**	**n/a**	**n/a**	**0.00009611**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids (mg/L)	**BRGWC-47**	**221**	**n/a**	**8/30/2023**	**1970**	**Yes**	**143**	**n/a**	**n/a**	**1.399**	**n/a**	**n/a**	**0.00009611**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids (mg/L)	**BRGWC-50**	**221**	**n/a**	**8/30/2023**	**2180**	**Yes**	**143**	**n/a**	**n/a**	**1.399**	**n/a**	**n/a**	**0.00009611**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids (mg/L)	**BRGWC-52I**	**221**	**n/a**	**8/30/2023**	**281**	**Yes**	**143**	**n/a**	**n/a**	**1.399**	**n/a**	**n/a**	**0.00009611**	**NP Inter (normality) 1 of 2**

Appendix III Trend Tests - Significant Results

Plant Branch Data: Plant Branch AP Printed 10/23/2023, 7:09 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	BRGWC-29I	-0.1078	-78	-68	Yes	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWC-47	0.03626	77	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWA-23S (bg)	-1.372	-92	-68	Yes	18	5.556	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWA-6S (bg)	0.1264	80	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWC-25I	-3.579	-71	-68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWC-30I	34.59	130	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWC-45	-2.018	-82	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWA-12I (bg)	-0.1919	-99	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWA-23S (bg)	-0.2007	-93	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWA-5I (bg)	-0.1548	-84	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWA-5S (bg)	-0.07449	-75	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWC-45	-7.89	-105	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWC-50	-2.03	-109	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWC-52I	-0.2483	-81	-68	Yes	18	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	BRGWA-5I (bg)	0.006424	91	81	Yes	20	65	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWA-2I (bg)	-0.07157	-82	-81	Yes	20	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWA-2S (bg)	-0.03999	-100	-81	Yes	20	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWA-5S (bg)	-0.05423	-104	-81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-12I (bg)	-0.2108	-113	-68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-12S (bg)	-0.126	-88	-68	Yes	18	16.67	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-23S (bg)	-8.828	-75	-68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-25I	-25.4	-87	-68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-27I	-22.62	-121	-68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-30I	75	93	68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-32S	-28.81	-89	-68	Yes	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWA-23S (bg)	-13.07	-86	-68	Yes	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWA-5S (bg)	-8.69	-93	-68	Yes	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-25I	-37.57	-103	-68	Yes	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-27I	-25.03	-101	-68	Yes	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-29I	-49.93	-75	-68	Yes	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-30I	125.3	107	68	Yes	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-32S	-41.37	-106	-68	Yes	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-45	-23.69	-117	-74	Yes	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-47	-43.29	-75	-68	Yes	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-50	-73.18	-79	-68	Yes	18	0	n/a	n/a	0.01	NP

Appendix III Trend Tests - All Results

Plant Branch Data: Plant Branch AP Printed 10/23/2023, 7:09 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	BRGWA-12I (bg)	-0.00006578	-7	-63	No	17	17.65	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWA-12S (bg)	0	-7	-63	No	17	76.47	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWA-23S (bg)	0.001812	22	68	No	18	11.11	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWA-2I (bg)	0.0001886	17	68	No	18	27.78	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWA-2S (bg)	0	-16	-68	No	18	83.33	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWA-5I (bg)	0	-15	-68	No	18	72.22	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWA-5S (bg)	0	-8	-68	No	18	55.56	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWA-6S (bg)	0	-11	-68	No	18	72.22	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWC-25I	-0.05112	-32	-68	No	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWC-27I	-0.08885	-68	-74	No	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	**BRGWC-29I**	**-0.1078**	**-78**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	BRGWC-30I	0.05341	45	74	No	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWC-32S	-0.05767	-56	-74	No	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	**BRGWC-47**	**0.03626**	**77**	**74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	BRGWC-50	0.008541	42	68	No	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWC-52I	0.05214	45	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWA-12I (bg)	-0.2348	-12	-68	No	18	5.556	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWA-12S (bg)	0.1273	28	68	No	18	5.556	n/a	n/a	0.01	NP
Calcium (mg/L)	**BRGWA-23S (bg)**	**-1.372**	**-92**	**-68**	**Yes**	**18**	**5.556**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	BRGWA-2I (bg)	0.3318	33	68	No	18	5.556	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWA-2S (bg)	0.149	63	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWA-5I (bg)	0.103	21	68	No	18	5.556	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWA-5S (bg)	-0.5359	-55	-68	No	18	5.556	n/a	n/a	0.01	NP
Calcium (mg/L)	**BRGWA-6S (bg)**	**0.1264**	**80**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**BRGWC-25I**	**-3.579**	**-71**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	BRGWC-27I	-3.17	-67	-68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWC-29I	-4.144	-49	-68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**BRGWC-30I**	**34.59**	**130**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	BRGWC-32S	-3.414	-67	-68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**BRGWC-45**	**-2.018**	**-82**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	BRGWC-47	1.347	14	74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWC-50	-6.102	-62	-68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWC-52I	-0.2829	-8	-63	No	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**BRGWA-12I (bg)**	**-0.1919**	**-99**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	BRGWA-12S (bg)	0.06545	54	68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**BRGWA-23S (bg)**	**-0.2007**	**-93**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	BRGWA-2I (bg)	-0.03364	-41	-68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWA-2S (bg)	0	2	68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**BRGWA-5I (bg)**	**-0.1548**	**-84**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**BRGWA-5S (bg)**	**-0.07449**	**-75**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	BRGWA-6S (bg)	-0.001816	-21	-68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWC-25I	-0.409	-54	-68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWC-29I	-0.1739	-57	-68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**BRGWC-45**	**-7.89**	**-105**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**BRGWC-50**	**-2.03**	**-109**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**BRGWC-52I**	**-0.2483**	**-81**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Fluoride (mg/L)	BRGWA-12I (bg)	-0.008595	-35	-74	No	19	21.05	n/a	n/a	0.01	NP
Fluoride (mg/L)	BRGWA-12S (bg)	0	63	74	No	19	63.16	n/a	n/a	0.01	NP
Fluoride (mg/L)	BRGWA-23S (bg)	0	17	81	No	20	50	n/a	n/a	0.01	NP
Fluoride (mg/L)	BRGWA-2I (bg)	0	3	81	No	20	50	n/a	n/a	0.01	NP
Fluoride (mg/L)	BRGWA-2S (bg)	0.005022	75	81	No	20	60	n/a	n/a	0.01	NP
Fluoride (mg/L)	**BRGWA-5I (bg)**	**0.006424**	**91**	**81**	**Yes**	**20**	**65**	**n/a**	**n/a**	**0.01**	**NP**
Fluoride (mg/L)	BRGWA-5S (bg)	0	15	81	No	20	35	n/a	n/a	0.01	NP
Fluoride (mg/L)	BRGWA-6S (bg)	0.003384	66	81	No	20	55	n/a	n/a	0.01	NP
Fluoride (mg/L)	BRGWC-50	-0.03378	-23	-81	No	20	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWA-12I (bg)	-0.02367	-36	-87	No	21	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWA-12S (bg)	-0.01755	-49	-81	No	20	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWA-23S (bg)	-0.03095	-60	-81	No	20	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	**BRGWA-2I (bg)**	**-0.07157**	**-82**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (S.U.)	**BRGWA-2S (bg)**	**-0.03999**	**-100**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (S.U.)	BRGWA-5I (bg)	-0.01794	-48	-81	No	20	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	**BRGWA-5S (bg)**	**-0.05423**	**-104**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (S.U.)	BRGWA-6S (bg)	-0.006594	-9	-74	No	19	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWC-29I	-0.01574	-23	-81	No	20	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWC-50	-0.03717	-62	-87	No	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**BRGWA-12I (bg)**	**-0.2108**	**-113**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**BRGWA-12S (bg)**	**-0.126**	**-88**	**-68**	**Yes**	**18**	**16.67**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**BRGWA-23S (bg)**	**-8.828**	**-75**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**

Appendix III Trend Tests - All Results

Plant Branch Data: Plant Branch AP Printed 10/23/2023, 7:09 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Sulfate (mg/L)	BRGWA-2I (bg)	-0.1349	-35	-68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-2S (bg)	0	-4	-68	No	18	33.33	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-5I (bg)	-0.2786	-63	-68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-5S (bg)	-0.0299	-41	-68	No	18	33.33	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-6S (bg)	-0.00337	-11	-68	No	18	22.22	n/a	n/a	0.01	NP
Sulfate (mg/L)	**BRGWC-25I**	**-25.4**	**-87**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**BRGWC-27I**	**-22.62**	**-121**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	BRGWC-29I	-25.24	-62	-68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**BRGWC-30I**	**75**	**93**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**BRGWC-32S**	**-28.81**	**-89**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	BRGWC-45	-2.7	-47	-74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-47	-51.06	-73	-74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-50	-87.99	-62	-63	No	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-52I	-7.645	-56	-68	No	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWA-12I (bg)	-5.117	-61	-68	No	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWA-12S (bg)	-5.699	-57	-68	No	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	**BRGWA-23S (bg)**	**-13.07**	**-86**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	BRGWA-2I (bg)	-8.462	-53	-68	No	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWA-2S (bg)	-0.5826	-5	-68	No	18	5.556	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWA-5I (bg)	-4.727	-44	-68	No	18	5.556	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	**BRGWA-5S (bg)**	**-8.69**	**-93**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	BRGWA-6S (bg)	-1.676	-17	-63	No	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	**BRGWC-25I**	**-37.57**	**-103**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**BRGWC-27I**	**-25.03**	**-101**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**BRGWC-29I**	**-49.93**	**-75**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**BRGWC-30I**	**125.3**	**107**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**BRGWC-32S**	**-41.37**	**-106**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**BRGWC-45**	**-23.69**	**-117**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**BRGWC-47**	**-43.29**	**-75**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**BRGWC-50**	**-73.18**	**-79**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	BRGWC-52I	-11.87	-51	-68	No	18	0	n/a	n/a	0.01	NP

Upper Tolerance Limits Summary Table

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 10/24/2023, 2:23 PM

Constituent	Upper Lim.	Date	Observ.	Sig.	Bg N	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	0.0245	n/a	n/a	n/a	150	83.33	n/a	n/a	0.0004556	NP Inter(NDs)
Arsenic (mg/L)	0.005	n/a	n/a	n/a	150	76.67	n/a	n/a	0.0004556	NP Inter(NDs)
Barium (mg/L)	0.13	n/a	n/a	n/a	150	0	n/a	n/a	0.0004556	NP Inter(normality)
Beryllium (mg/L)	0.0005	n/a	n/a	n/a	150	100	n/a	n/a	0.0004556	NP Inter(NDs)
Cadmium (mg/L)	0.001	n/a	n/a	n/a	152	98.68	n/a	n/a	0.0004111	NP Inter(NDs)
Chromium (mg/L)	0.016	n/a	n/a	n/a	150	22	n/a	n/a	0.0004556	NP Inter(normality)
Cobalt (mg/L)	0.0135	n/a	n/a	n/a	150	55.33	n/a	n/a	0.0004556	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	2.171	n/a	n/a	n/a	150	0	None	sqrt(x)	0.05	Inter
Fluoride (mg/L)	0.42	n/a	n/a	n/a	158	50	n/a	n/a	0.0003022	NP Inter(normality)
Lead (mg/L)	0.002	n/a	n/a	n/a	150	88	n/a	n/a	0.0004556	NP Inter(NDs)
Lithium (mg/L)	0.089	n/a	n/a	n/a	150	41.33	n/a	n/a	0.0004556	NP Inter(normality)
Mercury (mg/L)	0.00021	n/a	n/a	n/a	134	88.81	n/a	n/a	0.001035	NP Inter(NDs)
Molybdenum (mg/L)	0.008	n/a	n/a	n/a	147	76.19	n/a	n/a	0.0005313	NP Inter(NDs)
Selenium (mg/L)	0.006	n/a	n/a	n/a	150	92	n/a	n/a	0.0004556	NP Inter(NDs)
Thallium (mg/L)	0.002	n/a	n/a	n/a	150	100	n/a	n/a	0.0004556	NP Inter(NDs)

PLANT BRANCH POND BCD GWPS				
Constituent Name	**MCL**	**CCR-Rule Specified**	**Background Limit**	**GWPS**
Antimony, Total (mg/L)	0.006		0.025	0.006
Arsenic, Total (mg/L)	0.01		0.005	0.01
Barium, Total (mg/L)	2		0.13	2
Beryllium, Total (mg/L)	0.004		0.0005	0.004
Cadmium, Total (mg/L)	0.005		0.001	0.005
Chromium, Total (mg/L)	0.1		0.016	0.1
Cobalt, Total (mg/L)	n/a	0.006	0.014	0.014
Combined Radium, Total (pCi/L)	5		2.17	5
Fluoride, Total (mg/L)	4		0.42	4
Lead, Total (mg/L)	n/a	0.015	0.002	0.015
Lithium, Total (mg/L)	n/a	0.04	0.089	0.089
Mercury, Total (mg/L)	0.002		0.00021	0.002
Molybdenum, Total (mg/L)	n/a	0.1	0.008	0.1
Selenium, Total (mg/L)	0.05		0.006	0.05
Thallium, Total (mg/L)	0.002		0.002	0.002

**Highlighted cells indicate Background is higher than MCLs*

**MCL = Maximum Contaminant Level*

**CCR = Coal Combustion Residuals*

**GWPS = Groundwater Protection Standard*

***MCL used in lieu of Background limit for Antimony*

Confidence Intervals Summary Table - Significant Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 1/31/2024, 1:49 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Beryllium (mg/L)	**BRGWC-50**	**0.008516**	**0.005195**	**0.004**	**Yes**	**9**	**0.006856**	**0.001719**	**0**	**None**	**No**	**0.01**	**Param.**
Beryllium (mg/L)	**PZ-58I**	**0.03983**	**0.02257**	**0.004**	**Yes**	**5**	**0.0312**	**0.005152**	**0**	**None**	**No**	**0.01**	**Param.**
Beryllium (mg/L)	**PZ-60I**	**0.07905**	**0.06195**	**0.004**	**Yes**	**5**	**0.0705**	**0.005101**	**0**	**None**	**No**	**0.01**	**Param.**
Cadmium (mg/L)	**BRGWC-50**	**0.038**	**0.0079**	**0.005**	**Yes**	**19**	**0.02552**	**0.0242**	**0**	**None**	**No**	**0.01**	**NP (normality)**
Cadmium (mg/L)	**PZ-60I**	**0.01719**	**0.01445**	**0.005**	**Yes**	**5**	**0.01582**	**0.0008198**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	**BRGWC-50**	**1.42**	**1.35**	**0.014**	**Yes**	**19**	**1.392**	**0.0633**	**0**	**None**	**No**	**0.01**	**NP (normality)**
Cobalt (mg/L)	**PZ-51I**	**0.0259**	**0.018**	**0.014**	**Yes**	**12**	**0.02274**	**0.006306**	**0**	**None**	**No**	**0.01**	**NP (normality)**
Cobalt (mg/L)	**PZ-58I**	**0.5929**	**0.3659**	**0.014**	**Yes**	**5**	**0.4794**	**0.06773**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	**PZ-60I**	**3.827**	**3.333**	**0.014**	**Yes**	**5**	**3.58**	**0.1471**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	**PZ-61I**	**0.7712**	**0.382**	**0.014**	**Yes**	**5**	**0.5766**	**0.1162**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	**PZ-60I**	**0.114**	**0.0936**	**0.089**	**Yes**	**5**	**0.1013**	**0.007636**	**0**	**None**	**No**	**0.031**	**NP (selected)**
Selenium (mg/L)	**BRGWC-32S**	**0.1777**	**0.08972**	**0.05**	**Yes**	**11**	**0.1337**	**0.0528**	**0**	**None**	**No**	**0.01**	**Param.**

Confidence Intervals Summary Table - All Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 1/31/2024, 1:49 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	BRGWC-29I	0.003	0.0007	0.006	No	19	0.002879	0.0005277	94.74	None	No	0.01	NP (NDs)
Antimony (mg/L)	BRGWC-30I	0.003	0.0013	0.006	No	19	0.002911	0.00039	94.74	None	No	0.01	NP (NDs)
Antimony (mg/L)	BRGWC-32S	0.003	0.0014	0.006	No	19	0.002916	0.0003671	94.74	None	No	0.01	NP (NDs)
Antimony (mg/L)	BRGWC-45	0.003	0.0016	0.006	No	20	0.002502	0.0008619	65	None	No	0.01	NP (NDs)
Antimony (mg/L)	BRGWC-47	0.003	0.00035	0.006	No	20	0.002868	0.0005926	95	None	No	0.01	NP (NDs)
Antimony (mg/L)	BRGWC-50	0.003	0.00092	0.006	No	19	0.002624	0.0008973	84.21	None	No	0.01	NP (NDs)
Antimony (mg/L)	BRGWC-52I	0.003	0.00091	0.006	No	19	0.002642	0.0008549	84.21	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-50D	0.003	0.00056	0.006	No	6	0.002593	0.0009961	83.33	None	No	0.0155	NP (NDs)
Antimony (mg/L)	PZ-51D	0.003	0.0013	0.006	No	6	0.002717	0.000694	83.33	None	No	0.0155	NP (NDs)
Antimony (mg/L)	PZ-51I	0.003	0.0012	0.006	No	10	0.002469	0.0008816	70	None	No	0.011	NP (NDs)
Arsenic (mg/L)	BRGWC-25I	0.005	0.00091	0.01	No	19	0.004092	0.001808	78.95	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-27I	0.005	0.0014	0.01	No	19	0.004163	0.001669	78.95	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-29I	0.005	0.0015	0.01	No	19	0.003611	0.001909	63.16	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-30I	0.005	0.00283	0.01	No	19	0.004498	0.001251	84.21	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-32S	0.005	0.00053	0.01	No	19	0.004765	0.001025	94.74	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-45	0.005	0.0021	0.01	No	20	0.003867	0.001817	70	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-47	0.002641	0.001266	0.01	No	20	0.002965	0.001753	30	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	BRGWC-50	0.005	0.00236	0.01	No	19	0.004077	0.001646	73.68	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-52I	0.005	0.0026	0.01	No	19	0.003798	0.001452	47.37	None	No	0.01	NP (normality)
Arsenic (mg/L)	PZ-44	0.005	0.00221	0.01	No	7	0.004459	0.001059	71.43	None	No	0.008	NP (NDs)
Arsenic (mg/L)	PZ-50D	0.002982	0.0008455	0.01	No	6	0.002428	0.001481	16.67	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	PZ-51D	0.003948	0.001176	0.01	No	6	0.002968	0.001417	16.67	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	PZ-51I	0.005	0.005	0.01	No	10	0.004722	0.0008791	90	Kaplan-Meier	No	0.011	NP (NDs)
Arsenic (mg/L)	PZ-58I	0.005	0.00245	0.01	No	5	0.00449	0.00114	80	Kaplan-Meier	No	0.031	NP (NDs)
Arsenic (mg/L)	PZ-60I	0.005	0.00204	0.01	No	5	0.004124	0.001317	60	None	No	0.031	NP (NDs)
Arsenic (mg/L)	PZ-61I	0.003048	0.002019	0.01	No	5	0.0035	0.001397	40	Kaplan-Meier	ln(x)	0.01	Param.
Barium (mg/L)	BRGWC-25I	0.03371	0.02648	2	No	19	0.03051	0.00672	0	None	ln(x)	0.01	Param.
Barium (mg/L)	BRGWC-27I	0.01674	0.01509	2	No	19	0.01592	0.001409	0	None	No	0.01	Param.
Barium (mg/L)	BRGWC-29I	0.01903	0.017	2	No	19	0.01802	0.001739	0	None	No	0.01	Param.
Barium (mg/L)	BRGWC-30I	0.03032	0.02311	2	No	19	0.02718	0.006723	0	None	ln(x)	0.01	Param.
Barium (mg/L)	BRGWC-32S	0.04014	0.02605	2	No	19	0.03309	0.01202	0	None	No	0.01	Param.
Barium (mg/L)	BRGWC-45	0.09133	0.0718	2	No	20	0.08157	0.0172	0	None	No	0.01	Param.
Barium (mg/L)	BRGWC-47	0.04162	0.03263	2	No	20	0.03713	0.007917	0	None	No	0.01	Param.
Barium (mg/L)	BRGWC-50	0.02069	0.01781	2	No	19	0.01925	0.002456	0	None	No	0.01	Param.
Barium (mg/L)	BRGWC-52I	0.02593	0.01695	2	No	19	0.02186	0.008206	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	PZ-44	0.05569	0.04728	2	No	7	0.05149	0.003537	0	None	No	0.01	Param.
Barium (mg/L)	PZ-50D	0.04083	0.0253	2	No	6	0.03307	0.005652	0	None	No	0.01	Param.
Barium (mg/L)	PZ-51D	0.07446	0.04064	2	No	6	0.05755	0.01231	0	None	No	0.01	Param.
Barium (mg/L)	PZ-51I	0.01594	0.01396	2	No	10	0.01495	0.001115	0	None	No	0.01	Param.
Barium (mg/L)	PZ-58I	0.01831	0.01573	2	No	5	0.01702	0.0007727	0	None	No	0.01	Param.
Barium (mg/L)	PZ-60I	0.02351	0.02073	2	No	5	0.02212	0.0008319	0	None	No	0.01	Param.
Barium (mg/L)	PZ-61I	0.029	0.0125	2	No	5	0.0165	0.007057	0	None	No	0.031	NP (normality)
Barium (mg/L)	PZ-63I	0.037	0.022	2	No	4	0.02603	0.00733	0	None	No	0.0625	NP (normality)
Beryllium (mg/L)	BRGWC-27I	0.0005	0.00011	0.004	No	20	0.0002617	0.000184	35	None	No	0.01	NP (normality)
Beryllium (mg/L)	BRGWC-29I	0.001074	0.0008106	0.004	No	19	0.0009597	0.0002429	5.263	None	ln(x)	0.01	Param.
Beryllium (mg/L)	BRGWC-45	0.0005	0.000079	0.004	No	21	0.0004583	0.0001317	90.48	None	No	0.01	NP (NDs)
Beryllium (mg/L)	BRGWC-47	0.0005	0.000056	0.004	No	20	0.0004329	0.0001639	85	None	No	0.01	NP (NDs)
Beryllium (mg/L)	**BRGWC-50**	**0.008516**	**0.005195**	**0.004**	**Yes**	**9**	**0.006856**	**0.001719**	**0**	**None**	**No**	**0.01**	**Param.**
Beryllium (mg/L)	PZ-50D	0.0025	0.000059	0.004	No	6	0.001721	0.001208	66.67	None	No	0.0155	NP (NDs)
Beryllium (mg/L)	PZ-51I	0.0005	0.000071	0.004	No	10	0.0002476	0.0002175	40	None	No	0.011	NP (normality)
Beryllium (mg/L)	**PZ-58I**	**0.03983**	**0.02257**	**0.004**	**Yes**	**5**	**0.0312**	**0.005152**	**0**	**None**	**No**	**0.01**	**Param.**
Beryllium (mg/L)	**PZ-60I**	**0.07905**	**0.06195**	**0.004**	**Yes**	**5**	**0.0705**	**0.005101**	**0**	**None**	**No**	**0.01**	**Param.**
Beryllium (mg/L)	PZ-61I	0.002003	0.001305	0.004	No	5	0.001654	0.0002085	0	None	No	0.01	Param.
Cadmium (mg/L)	BRGWC-27I	0.001	0.00009	0.005	No	20	0.000908	0.0002832	90	None	No	0.01	NP (NDs)
Cadmium (mg/L)	BRGWC-30I	0.001	0.00014	0.005	No	20	0.000911	0.0002741	90	None	No	0.01	NP (NDs)

Confidence Intervals Summary Table - All Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 1/31/2024, 1:49 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Cadmium (mg/L)	BRGWC-32S	0.001	0.00011	0.005	No	20	0.0008645	0.000331	85	None	No	0.01	NP (NDs)
Cadmium (mg/L)	BRGWC-45	0.001	0.0002	0.005	No	21	0.0008356	0.0003477	80.95	None	No	0.01	NP (NDs)
Cadmium (mg/L)	BRGWC-47	0.001	0.00017	0.005	No	20	0.0005865	0.0004251	50	None	No	0.01	NP (normality)
Cadmium (mg/L)	**BRGWC-50**	**0.038**	**0.0079**	**0.005**	**Yes**	**19**	**0.02552**	**0.0242**	**0**	**None**	**No**	**0.01**	**NP (normality)**
Cadmium (mg/L)	PZ-51I	0.007544	0.00117	0.005	No	12	0.006233	0.009531	0	None	ln(x)	0.01	Param.
Cadmium (mg/L)	PZ-58I	0.004829	0.003763	0.005	No	5	0.004296	0.0003183	0	None	No	0.01	Param.
Cadmium (mg/L)	**PZ-60I**	**0.01719**	**0.01445**	**0.005**	**Yes**	**5**	**0.01582**	**0.0008198**	**0**	**None**	**No**	**0.01**	**Param.**
Cadmium (mg/L)	PZ-61I	0.001049	0.00008008	0.005	No	5	0.0005644	0.000289	0	None	No	0.01	Param.
Chromium (mg/L)	BRGWC-25I	0.01	0.0016	0.1	No	19	0.009083	0.002748	89.47	None	No	0.01	NP (NDs)
Chromium (mg/L)	BRGWC-27I	0.01	0.003	0.1	No	19	0.009158	0.002544	89.47	None	No	0.01	NP (NDs)
Chromium (mg/L)	BRGWC-29I	0.02	0.01	0.1	No	19	0.01053	0.002294	94.74	None	No	0.01	NP (NDs)
Chromium (mg/L)	BRGWC-30I	0.014	0.0051	0.1	No	19	0.009953	0.00149	89.47	None	No	0.01	NP (NDs)
Chromium (mg/L)	BRGWC-32S	0.01	0.0014	0.1	No	19	0.005195	0.004228	42.11	None	No	0.01	NP (normality)
Chromium (mg/L)	BRGWC-45	0.01	0.0014	0.1	No	20	0.008646	0.003309	85	None	No	0.01	NP (NDs)
Chromium (mg/L)	BRGWC-47	0.01	0.0018	0.1	No	20	0.008207	0.003685	80	None	No	0.01	NP (NDs)
Chromium (mg/L)	BRGWC-50	0.01	0.00098	0.1	No	19	0.006881	0.004281	63.16	None	No	0.01	NP (NDs)
Chromium (mg/L)	BRGWC-52I	0.01	0.0017	0.1	No	19	0.009563	0.001904	94.74	None	No	0.01	NP (NDs)
Chromium (mg/L)	PZ-51I	0.01	0.00098	0.1	No	10	0.008178	0.003841	80	None	No	0.011	NP (NDs)
Chromium (mg/L)	PZ-61I	0.01	0.0077	0.1	No	5	0.00954	0.001029	80	None	No	0.031	NP (NDs)
Cobalt (mg/L)	BRGWC-25I	0.005891	0.003686	0.014	No	19	0.005039	0.00211	5.263	None	ln(x)	0.01	Param.
Cobalt (mg/L)	BRGWC-27I	0.01028	0.007556	0.014	No	20	0.008916	0.002396	0	None	No	0.01	Param.
Cobalt (mg/L)	BRGWC-29I	0.009386	0.006679	0.014	No	19	0.008172	0.002486	5.263	None	x^(1/3)	0.01	Param.
Cobalt (mg/L)	BRGWC-30I	0.00163	0.0008	0.014	No	20	0.007016	0.01422	15	None	No	0.01	NP (normality)
Cobalt (mg/L)	BRGWC-32S	0.0025	0.001	0.014	No	20	0.001075	0.0003354	90	None	No	0.01	NP (NDs)
Cobalt (mg/L)	BRGWC-45	0.01235	0.005405	0.014	No	21	0.01143	0.01401	0	None	ln(x)	0.01	Param.
Cobalt (mg/L)	BRGWC-47	0.001516	0.0004522	0.014	No	20	0.002026	0.002969	25	Kaplan-Meier	ln(x)	0.01	Param.
Cobalt (mg/L)	**BRGWC-50**	**1.42**	**1.35**	**0.014**	**Yes**	**19**	**1.392**	**0.0633**	**0**	**None**	**No**	**0.01**	**NP (normality)**
Cobalt (mg/L)	BRGWC-52I	0.0015	0.00063	0.014	No	19	0.001306	0.0009458	57.89	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-50D	0.506	0.0037	0.014	No	7	0.128	0.1811	0	None	No	0.008	NP (selected)
Cobalt (mg/L)	PZ-51D	0.001	0.000306	0.014	No	7	0.000649	0.0003306	42.86	None	No	0.008	NP (normality)
Cobalt (mg/L)	**PZ-51I**	**0.0259**	**0.018**	**0.014**	**Yes**	**12**	**0.02274**	**0.006306**	**0**	**None**	**No**	**0.01**	**NP (normality)**
Cobalt (mg/L)	**PZ-58I**	**0.5929**	**0.3659**	**0.014**	**Yes**	**5**	**0.4794**	**0.06773**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	**PZ-60I**	**3.827**	**3.333**	**0.014**	**Yes**	**5**	**3.58**	**0.1471**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	**PZ-61I**	**0.7712**	**0.382**	**0.014**	**Yes**	**5**	**0.5766**	**0.1162**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	PZ-63I	0.0372	0.01335	0.014	No	4	0.02528	0.005252	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-25I	1.649	0.6555	5	No	19	1.251	1.026	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-27I	1.488	0.6539	5	No	19	1.145	0.8041	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-29I	1.859	1.229	5	No	19	1.544	0.5385	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-30I	1.571	0.7037	5	No	19	1.213	0.8317	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-32S	1.322	0.5448	5	No	19	0.9333	0.6635	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-45	0.9045	0.4255	5	No	20	0.665	0.4218	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-47	1.907	0.8611	5	No	20	1.384	0.9213	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-50	2.126	1.254	5	No	19	1.823	1.076	0	None	ln(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-52I	3.045	1.537	5	No	19	2.595	1.872	0	None	ln(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-44	1.804	0.1445	5	No	7	0.8834	0.8433	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-50D	2.804	0.9298	5	No	6	1.867	0.682	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-51D	3.735	1.251	5	No	6	2.493	0.9042	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-51I	3.695	0.719	5	No	10	2.636	3.453	0	None	ln(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-58I	4.688	0.06812	5	No	5	2.378	1.378	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-60I	5.692	1.724	5	No	5	3.708	1.184	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-61I	3.942	0.4133	5	No	5	1.856	1.106	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-63I	6.03	0.768	5	No	4	2.657	2.335	0	None	No	0.0625	NP (selected)
Fluoride (mg/L)	BRGWC-25I	0.25	0.15	4	No	20	0.2124	0.1265	5	None	No	0.01	NP (normality)
Fluoride (mg/L)	BRGWC-27I	0.2597	0.1685	4	No	20	0.2141	0.08032	10	None	No	0.01	Param.
Fluoride (mg/L)	BRGWC-29I	0.2114	0.09945	4	No	20	0.17	0.1177	10	None	x^(1/3)	0.01	Param.

Confidence Intervals Summary Table - All Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 1/31/2024, 1:49 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride (mg/L)	BRGWC-30I	0.3243	0.1374	4	No	20	0.2501	0.2052	5	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	BRGWC-32S	0.11	0.09	4	No	20	0.1034	0.0383	55	None	No	0.01	NP (NDs)
Fluoride (mg/L)	BRGWC-45	0.166	0.067	4	No	21	0.1761	0.2193	47.62	None	No	0.01	NP (normality)
Fluoride (mg/L)	BRGWC-47	0.28	0.1	4	No	21	0.2283	0.2452	47.62	None	No	0.01	NP (normality)
Fluoride (mg/L)	BRGWC-50	0.7652	0.3657	4	No	20	0.6009	0.4231	0	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	BRGWC-52I	0.2251	0.1389	4	No	19	0.182	0.07363	5.263	None	No	0.01	Param.
Fluoride (mg/L)	PZ-44	0.1933	0.06826	4	No	7	0.1791	0.09553	28.57	Kaplan-Meier	No	0.01	Param.
Fluoride (mg/L)	PZ-50D	0.2345	0.09408	4	No	7	0.1643	0.0591	0	None	No	0.01	Param.
Fluoride (mg/L)	PZ-51D	0.3721	0.2242	4	No	7	0.2981	0.06224	0	None	No	0.01	Param.
Fluoride (mg/L)	PZ-51I	0.12	0.0744	4	No	11	0.1003	0.02209	63.64	None	No	0.006	NP (NDs)
Fluoride (mg/L)	PZ-58I	1.788	0.8055	4	No	5	1.23	0.3281	0	None	ln(x)	0.01	Param.
Fluoride (mg/L)	PZ-60I	2.312	0.9685	4	No	5	1.64	0.4007	0	None	No	0.01	Param.
Fluoride (mg/L)	PZ-61I	0.2124	0.03122	4	No	5	0.1284	0.05446	20	Kaplan-Meier	No	0.01	Param.
Fluoride (mg/L)	PZ-63I	0.3286	0.09985	4	No	4	0.2143	0.05039	0	None	No	0.01	Param.
Lead (mg/L)	BRGWC-25I	0.002	0.00011	0.015	No	19	0.001901	0.0004336	94.74	None	No	0.01	NP (NDs)
Lead (mg/L)	BRGWC-27I	0.002	0.000063	0.015	No	19	0.001898	0.0004444	94.74	None	No	0.01	NP (NDs)
Lead (mg/L)	BRGWC-29I	0.002	0.00029	0.015	No	18	0.0008283	0.0007545	27.78	None	No	0.01	NP (normality)
Lead (mg/L)	BRGWC-30I	0.002	0.00011	0.015	No	19	0.001901	0.0004336	94.74	None	No	0.01	NP (NDs)
Lead (mg/L)	BRGWC-45	0.002	0.000595	0.015	No	20	0.001656	0.0007119	80	None	No	0.01	NP (NDs)
Lead (mg/L)	BRGWC-47	0.002	0.00012	0.015	No	20	0.001712	0.0007042	85	None	No	0.01	NP (NDs)
Lead (mg/L)	BRGWC-50	0.002	0.0001	0.015	No	19	0.001234	0.0009282	57.89	None	No	0.01	NP (NDs)
Lead (mg/L)	BRGWC-52I	0.002	0.000042	0.015	No	19	0.001897	0.0004492	94.74	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-50D	0.002	0.000056	0.015	No	6	0.001676	0.0007936	83.33	None	No	0.0155	NP (NDs)
Lead (mg/L)	PZ-51D	0.002	0.00013	0.015	No	6	0.001688	0.0007634	83.33	None	No	0.0155	NP (NDs)
Lead (mg/L)	PZ-51I	0.002	0.00036	0.015	No	10	0.001653	0.0007329	80	None	No	0.011	NP (NDs)
Lead (mg/L)	PZ-58I	0.005	0.00086	0.015	No	5	0.00253	0.002255	40	None	No	0.031	NP (normality)
Lead (mg/L)	PZ-61I	0.002	0.00113	0.015	No	5	0.001806	0.0003804	60	None	No	0.031	NP (NDs)
Lithium (mg/L)	BRGWC-27I	0.01	0.0014	0.089	No	19	0.003726	0.00386	26.32	None	No	0.01	NP (normality)
Lithium (mg/L)	BRGWC-29I	0.003583	0.003063	0.089	No	19	0.003323	0.0004437	0	None	No	0.01	Param.
Lithium (mg/L)	BRGWC-30I	0.01896	0.01284	0.089	No	19	0.01616	0.005502	0	None	sqrt(x)	0.01	Param.
Lithium (mg/L)	BRGWC-32S	0.0043	0.0021	0.089	No	19	0.005085	0.007125	10.53	None	No	0.01	NP (normality)
Lithium (mg/L)	BRGWC-45	0.003833	0.002971	0.089	No	19	0.003402	0.0007362	10.53	None	No	0.01	Param.
Lithium (mg/L)	BRGWC-47	0.04563	0.04113	0.089	No	20	0.04338	0.003961	0	None	No	0.01	Param.
Lithium (mg/L)	BRGWC-50	0.04439	0.03864	0.089	No	19	0.0417	0.005202	0	None	ln(x)	0.01	Param.
Lithium (mg/L)	BRGWC-52I	0.008695	0.003692	0.089	No	19	0.007458	0.006342	5.263	None	ln(x)	0.01	Param.
Lithium (mg/L)	PZ-44	0.006813	0.004472	0.089	No	7	0.005643	0.0009854	0	None	No	0.01	Param.
Lithium (mg/L)	PZ-50D	0.02759	0.01878	0.089	No	6	0.02318	0.003208	0	None	No	0.01	Param.
Lithium (mg/L)	PZ-51D	0.01024	0.005163	0.089	No	6	0.008033	0.002177	0	None	x^3	0.01	Param.
Lithium (mg/L)	PZ-51I	0.02356	0.01924	0.089	No	10	0.0214	0.002421	0	None	No	0.01	Param.
Lithium (mg/L)	PZ-58I	0.05661	0.03655	0.089	No	5	0.04658	0.005985	0	None	No	0.01	Param.
Lithium (mg/L)	**PZ-60I**	**0.114**	**0.0936**	**0.089**	**Yes**	**5**	**0.1013**	**0.007636**	**0**	**None**	**No**	**0.031**	**NP (selected)**
Lithium (mg/L)	PZ-61I	0.01262	0.00839	0.089	No	5	0.01051	0.001263	0	None	No	0.01	Param.
Lithium (mg/L)	PZ-63I	0.00819	0.003735	0.089	No	4	0.005963	0.0009812	0	None	No	0.01	Param.
Mercury (mg/L)	BRGWC-25I	0.0002	0.000083	0.002	No	17	0.0001837	0.00004662	88.24	None	No	0.01	NP (NDs)
Mercury (mg/L)	BRGWC-27I	0.0002	0.00005	0.002	No	17	0.0001822	0.00005032	88.24	None	No	0.01	NP (NDs)
Mercury (mg/L)	BRGWC-29I	0.0002	0.000098	0.002	No	17	0.0001769	0.00005236	82.35	None	No	0.01	NP (NDs)
Mercury (mg/L)	BRGWC-30I	0.0002	0.000082	0.002	No	17	0.000176	0.00005399	82.35	None	No	0.01	NP (NDs)
Mercury (mg/L)	BRGWC-32S	0.0002	0.0001	0.002	No	17	0.0001807	0.00004308	82.35	None	No	0.01	NP (NDs)
Mercury (mg/L)	PZ-51I	0.0002	0.0002	0.002	No	10	0.0001899	0.00003194	90	None	No	0.011	NP (NDs)
Molybdenum (mg/L)	BRGWC-25I	0.01	0.00092	0.1	No	18	0.005999	0.004605	55.56	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	BRGWC-30I	0.01	0.0012	0.1	No	18	0.006617	0.004373	61.11	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	BRGWC-45	0.01	0.00076	0.1	No	19	0.008004	0.003971	78.95	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	BRGWC-47	0.01	0.000296	0.1	No	19	0.008466	0.003639	84.21	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	BRGWC-50	0.0022	0.001	0.1	No	18	0.001194	0.0005965	88.89	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	BRGWC-52I	0.01	0.000782	0.1	No	18	0.005459	0.004128	38.89	None	No	0.01	NP (normality)

Confidence Intervals Summary Table - All Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 1/31/2024, 1:49 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Molybdenum (mg/L)	PZ-50D	0.001932	0.0006431	0.1	No	6	0.001318	0.0004849	16.67	Kaplan-Meier	No	0.01	Param.
Molybdenum (mg/L)	PZ-51D	0.0054	0.0004734	0.1	No	6	0.002563	0.002181	0	None	sqrt(x)	0.01	Param.
Molybdenum (mg/L)	PZ-51I	0.001	0.000313	0.1	No	10	0.0008596	0.0002961	80	None	No	0.011	NP (NDs)
Molybdenum (mg/L)	PZ-63I	0.001113	0.0003887	0.1	No	4	0.0007508	0.0001595	0	None	No	0.01	Param.
Selenium (mg/L)	BRGWC-25I	0.005	0.0021	0.05	No	19	0.004847	0.0006653	94.74	None	No	0.01	NP (NDs)
Selenium (mg/L)	BRGWC-27I	0.005	0.0025	0.05	No	19	0.003963	0.001231	42.11	None	No	0.01	NP (normality)
Selenium (mg/L)	BRGWC-29I	0.005	0.0042	0.05	No	19	0.004847	0.001272	57.89	None	No	0.01	NP (NDs)
Selenium (mg/L)	BRGWC-30I	0.005	0.0045	0.05	No	19	0.004658	0.0008255	78.95	None	No	0.01	NP (NDs)
Selenium (mg/L)	**BRGWC-32S**	**0.1777**	**0.08972**	**0.05**	**Yes**	**11**	**0.1337**	**0.0528**	**0**	**None**	**No**	**0.01**	**Param.**
Selenium (mg/L)	BRGWC-45	0.005	0.0029	0.05	No	20	0.004895	0.0004696	95	None	No	0.01	NP (NDs)
Selenium (mg/L)	BRGWC-47	0.005	0.002	0.05	No	20	0.00408	0.001462	70	None	No	0.01	NP (NDs)
Selenium (mg/L)	BRGWC-50	0.005	0.002	0.05	No	19	0.003676	0.001412	47.37	None	No	0.01	NP (normality)
Selenium (mg/L)	PZ-58I	0.005268	0.00116	0.05	No	5	0.003214	0.001226	0	None	No	0.01	Param.
Selenium (mg/L)	PZ-60I	0.005387	0.002241	0.05	No	5	0.003814	0.0009389	0	None	No	0.01	Param.
Selenium (mg/L)	PZ-61I	0.008085	0.001571	0.05	No	5	0.004828	0.001944	0	None	No	0.01	Param.
Thallium (mg/L)	BRGWC-29I	0.002	0.00017	0.002	No	19	0.0007537	0.00087	31.58	None	No	0.01	NP (normality)

Appendix IV Trend Tests - Significant Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 1/31/2024, 2:02 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Beryllium (mg/L)	**BRGWC-50**	**0.001312**	**131**	**58**	**Yes**	**19**	**10.53**	**n/a**	**0.05**	**NP**
Cadmium (mg/L)	**BRGWC-50**	**-0.006628**	**-98**	**-58**	**Yes**	**19**	**0**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**BRGWA-23S (bg)**	**-0.0006334**	**-99**	**-58**	**Yes**	**19**	**21.05**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**BRGWA-2S (bg)**	**-0.0003364**	**-119**	**-58**	**Yes**	**19**	**10.53**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**BRGWA-5I (bg)**	**-0.0001008**	**-66**	**-49**	**Yes**	**17**	**0**	**n/a**	**0.05**	**NP**
Selenium (mg/L)	**BRGWC-32S**	**0.03358**	**137**	**62**	**Yes**	**20**	**20**	**n/a**	**0.05**	**NP**

Appendix IV Trend Tests - All Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 1/31/2024, 2:02 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Beryllium (mg/L)	BRGWA-12I (bg)	0	0	53	No	18	100	n/a	0.05	NP
Beryllium (mg/L)	BRGWA-12S (bg)	0	0	53	No	18	100	n/a	0.05	NP
Beryllium (mg/L)	BRGWA-23S (bg)	0	0	58	No	19	100	n/a	0.05	NP
Beryllium (mg/L)	BRGWA-2I (bg)	0	0	58	No	19	100	n/a	0.05	NP
Beryllium (mg/L)	BRGWA-2S (bg)	0	0	58	No	19	100	n/a	0.05	NP
Beryllium (mg/L)	BRGWA-5I (bg)	0	0	58	No	19	100	n/a	0.05	NP
Beryllium (mg/L)	BRGWA-5S (bg)	0	0	58	No	19	100	n/a	0.05	NP
Beryllium (mg/L)	BRGWA-6S (bg)	0	0	58	No	19	100	n/a	0.05	NP
Beryllium (mg/L)	**BRGWC-50**	**0.001312**	**131**	**58**	**Yes**	**19**	**10.53**	**n/a**	**0.05**	**NP**
Beryllium (mg/L)	PZ-58I	0.007552	6	10	No	5	0	n/a	0.05	NP
Beryllium (mg/L)	PZ-60I	0.003445	2	10	No	5	0	n/a	0.05	NP
Cadmium (mg/L)	BRGWA-12I (bg)	0	0	58	No	19	100	n/a	0.05	NP
Cadmium (mg/L)	BRGWA-12S (bg)	0	0	58	No	19	100	n/a	0.05	NP
Cadmium (mg/L)	BRGWA-23S (bg)	0	9	58	No	19	89.47	n/a	0.05	NP
Cadmium (mg/L)	BRGWA-2I (bg)	0	0	58	No	19	100	n/a	0.05	NP
Cadmium (mg/L)	BRGWA-2S (bg)	0	0	58	No	19	100	n/a	0.05	NP
Cadmium (mg/L)	BRGWA-5I (bg)	0	0	58	No	19	100	n/a	0.05	NP
Cadmium (mg/L)	BRGWA-5S (bg)	0	0	58	No	19	100	n/a	0.05	NP
Cadmium (mg/L)	BRGWA-6S (bg)	0	0	58	No	19	100	n/a	0.05	NP
Cadmium (mg/L)	**BRGWC-50**	**-0.006628**	**-98**	**-58**	**Yes**	**19**	**0**	**n/a**	**0.05**	**NP**
Cadmium (mg/L)	PZ-60I	-0.0005838	-5	-10	No	5	0	n/a	0.05	NP
Cobalt (mg/L)	BRGWA-12I (bg)	0	0	58	No	19	100	n/a	0.05	NP
Cobalt (mg/L)	BRGWA-12S (bg)	0	0	58	No	19	100	n/a	0.05	NP
Cobalt (mg/L)	**BRGWA-23S (bg)**	**-0.0006334**	**-99**	**-58**	**Yes**	**19**	**21.05**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	BRGWA-2I (bg)	0	-41	-58	No	19	63.16	n/a	0.05	NP
Cobalt (mg/L)	**BRGWA-2S (bg)**	**-0.0003364**	**-119**	**-58**	**Yes**	**19**	**10.53**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**BRGWA-5I (bg)**	**-0.0001008**	**-66**	**-49**	**Yes**	**17**	**0**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	BRGWA-5S (bg)	0	13	58	No	19	68.42	n/a	0.05	NP
Cobalt (mg/L)	BRGWA-6S (bg)	0	15	58	No	19	73.68	n/a	0.05	NP
Cobalt (mg/L)	BRGWC-50	0	16	58	No	19	0	n/a	0.05	NP
Cobalt (mg/L)	PZ-51I	0.001415	27	30	No	12	0	n/a	0.05	NP
Cobalt (mg/L)	PZ-58I	0.08766	10	10	No	5	0	n/a	0.05	NP
Cobalt (mg/L)	PZ-60I	0.1881	8	10	No	5	0	n/a	0.05	NP
Cobalt (mg/L)	PZ-61I	0.1401	10	10	No	5	0	n/a	0.05	NP
Lithium (mg/L)	BRGWA-12I (bg)	-0.0001266	-41	-53	No	18	0	n/a	0.05	NP
Lithium (mg/L)	BRGWA-12S (bg)	0	0	53	No	18	100	n/a	0.05	NP
Lithium (mg/L)	BRGWA-23S (bg)	0.0002474	30	58	No	19	0	n/a	0.05	NP
Lithium (mg/L)	BRGWA-2I (bg)	-0.001146	-33	-58	No	19	0	n/a	0.05	NP
Lithium (mg/L)	BRGWA-2S (bg)	0	0	58	No	19	100	n/a	0.05	NP
Lithium (mg/L)	BRGWA-5I (bg)	-0.0002928	-38	-58	No	19	26.32	n/a	0.05	NP
Lithium (mg/L)	BRGWA-5S (bg)	0	0	58	No	19	100	n/a	0.05	NP
Lithium (mg/L)	BRGWA-6S (bg)	0.0001136	56	58	No	19	5.263	n/a	0.05	NP
Lithium (mg/L)	PZ-60I	-0.0008267	0	10	No	5	0	n/a	0.05	NP
Selenium (mg/L)	BRGWA-12I (bg)	0	0	53	No	18	100	n/a	0.05	NP
Selenium (mg/L)	BRGWA-12S (bg)	0	0	53	No	18	100	n/a	0.05	NP
Selenium (mg/L)	BRGWA-23S (bg)	-0.00002946	-22	-58	No	19	36.84	n/a	0.05	NP
Selenium (mg/L)	BRGWA-2I (bg)	0	0	58	No	19	100	n/a	0.05	NP
Selenium (mg/L)	BRGWA-2S (bg)	0	0	58	No	19	100	n/a	0.05	NP
Selenium (mg/L)	BRGWA-5I (bg)	0	0	58	No	19	100	n/a	0.05	NP
Selenium (mg/L)	BRGWA-5S (bg)	0	0	58	No	19	100	n/a	0.05	NP
Selenium (mg/L)	BRGWA-6S (bg)	0	0	58	No	19	100	n/a	0.05	NP
Selenium (mg/L)	**BRGWC-32S**	**0.03358**	**137**	**62**	**Yes**	**20**	**20**	**n/a**	**0.05**	**NP**

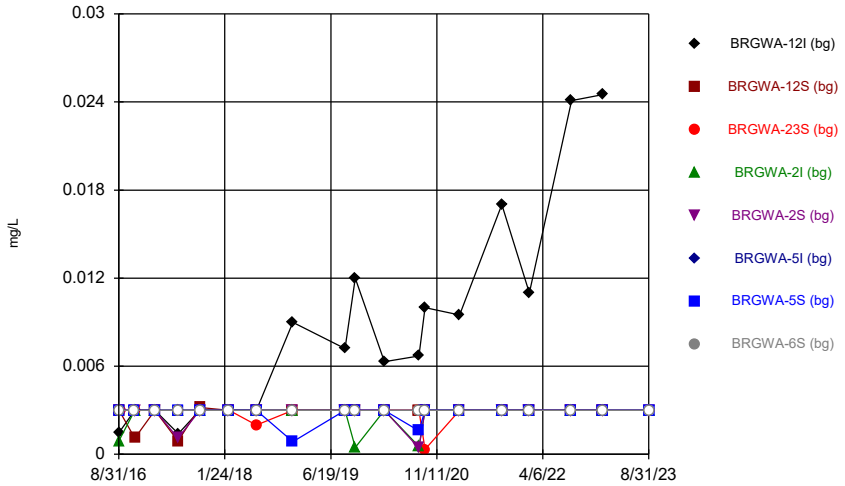
Table of Contents

Figure A. Time Series	28
Figure B. Box Plots	154
Figure C. Outlier Summary	176
Figure D. Appendix III Interwell Prediction Limits	178
Figure E. Appendix III Trend Tests	211
Figure F. Upper Tolerance Limits	240
Figure G. Groundwater Protection Standards	242
Figure H. Appendix IV Confidence Intervals	244
Figure I. Appendix IV Trend Tests	310

FIGURE A.

Sanitas™ v.10.0.13 . UG
Hollow symbols indicate censored values.

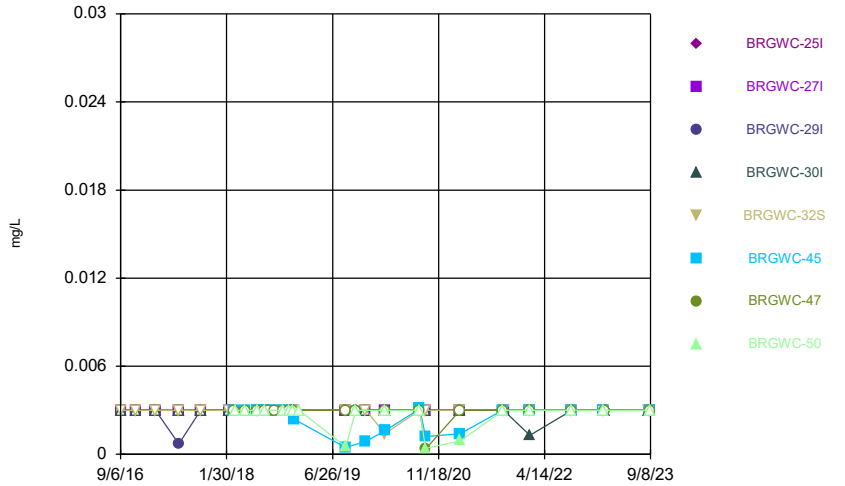
Time Series



Constituent: Antimony Analysis Run 10/24/2023 12:59 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG
Hollow symbols indicate censored values.

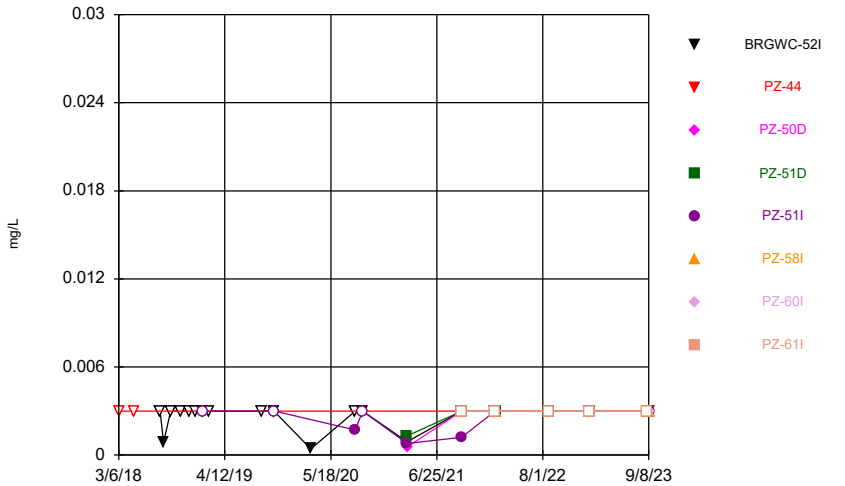
Time Series



Constituent: Antimony Analysis Run 10/24/2023 12:59 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG
Hollow symbols indicate censored values.

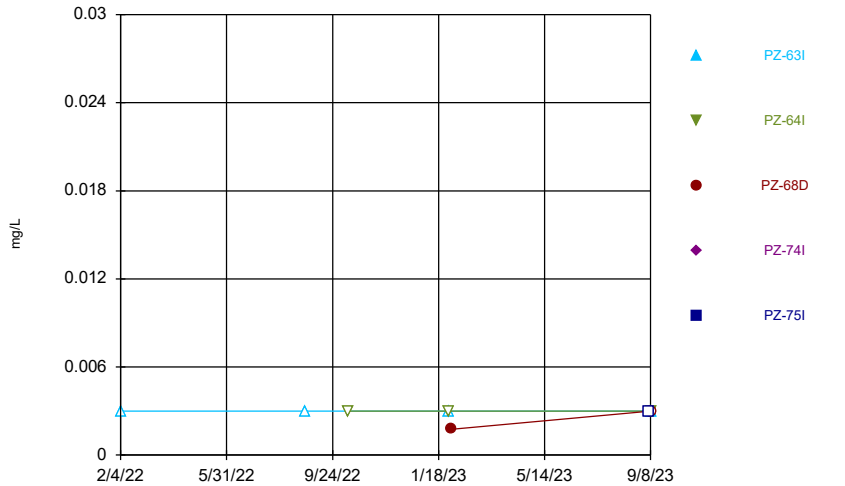
Time Series



Constituent: Antimony Analysis Run 10/24/2023 12:59 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG
Hollow symbols indicate censored values.

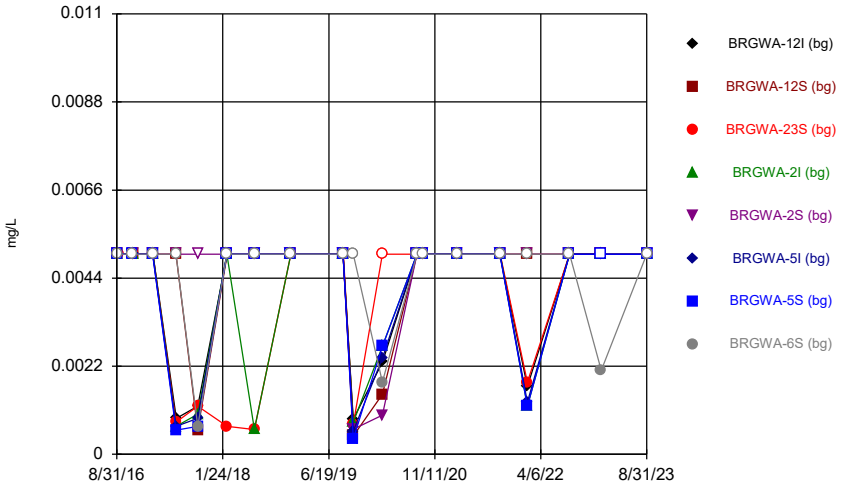
Time Series



Constituent: Antimony Analysis Run 10/24/2023 12:59 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG
Hollow symbols indicate censored values.

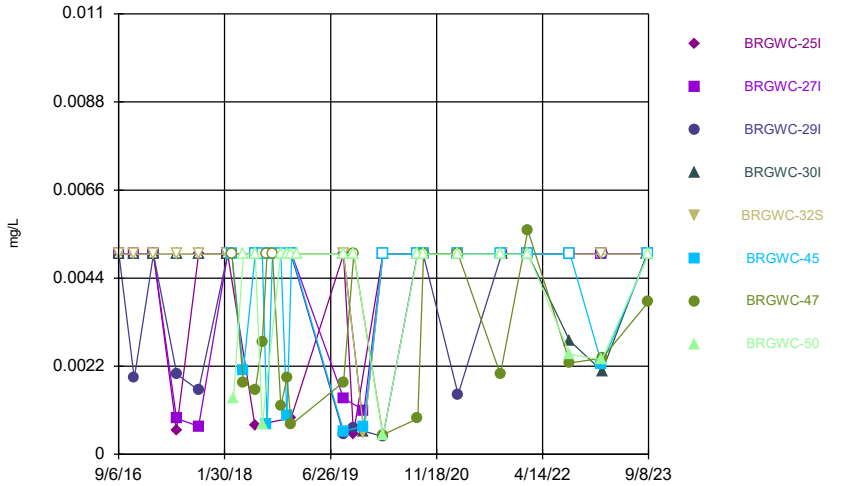
Time Series



Constituent: Arsenic Analysis Run 10/24/2023 12:59 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG
Hollow symbols indicate censored values.

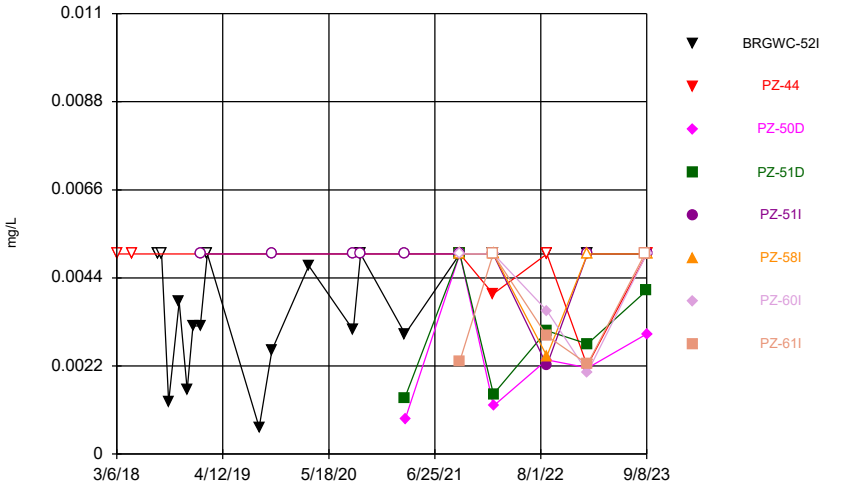
Time Series



Constituent: Arsenic Analysis Run 10/24/2023 12:59 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG
Hollow symbols indicate censored values.

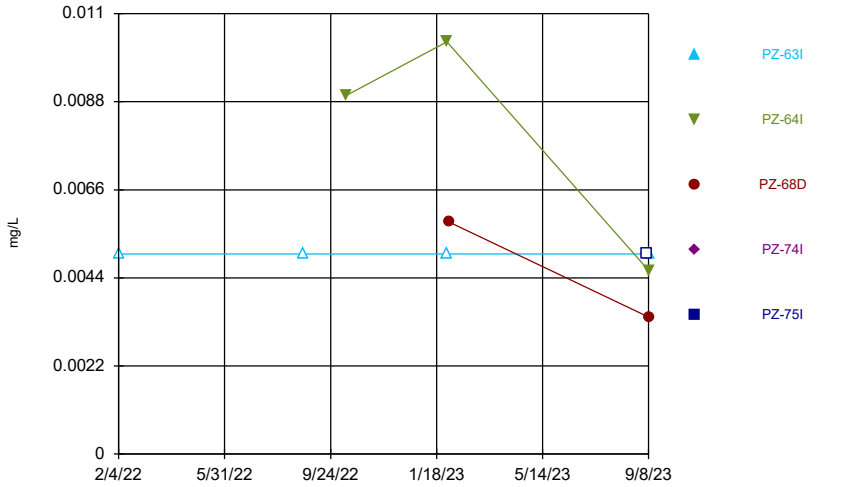
Time Series



Constituent: Arsenic Analysis Run 10/24/2023 12:59 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG
Hollow symbols indicate censored values.

Time Series



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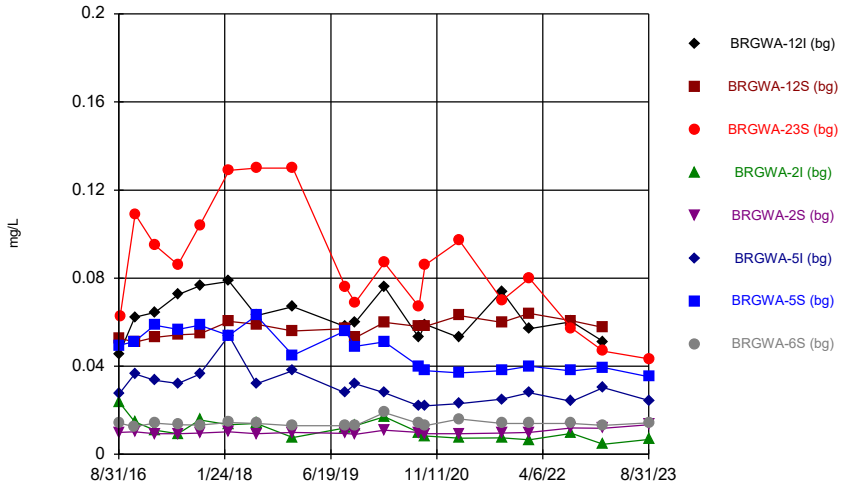
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

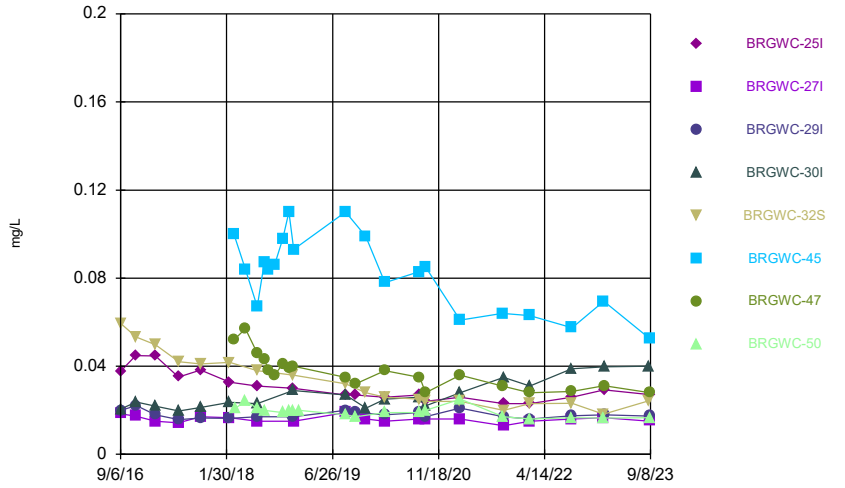
Time Series



Constituent: Barium Analysis Run 10/24/2023 12:59 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

Time Series



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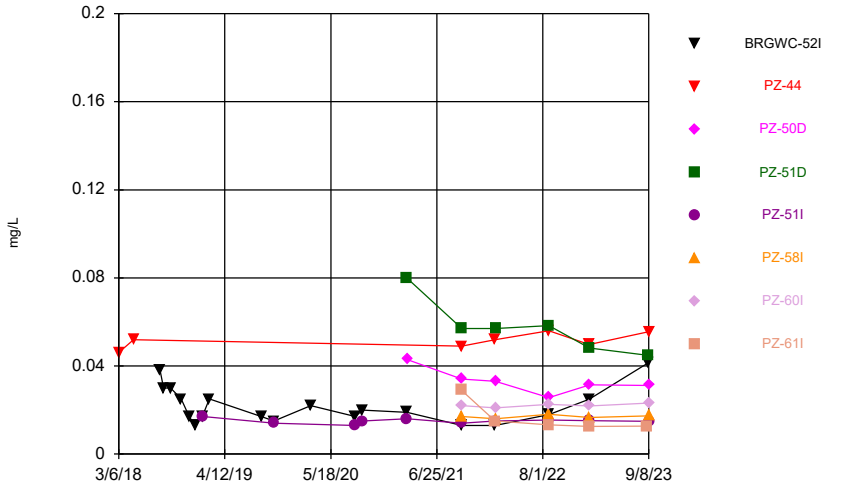
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

Time Series



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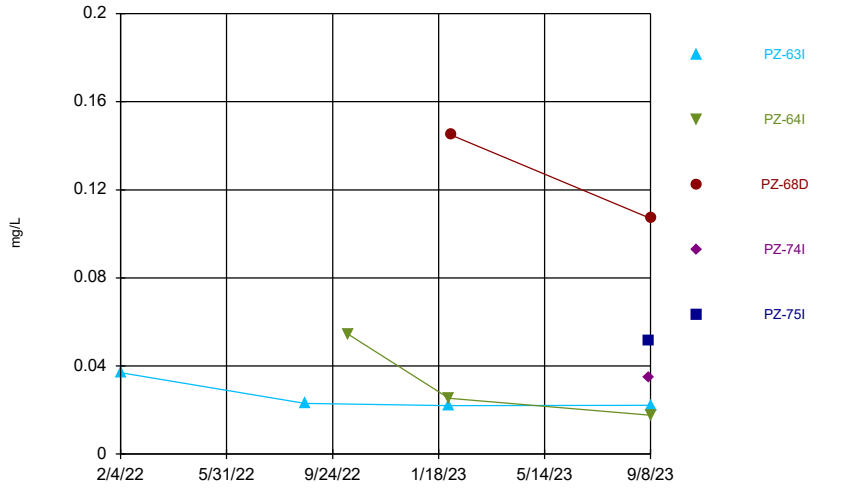
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

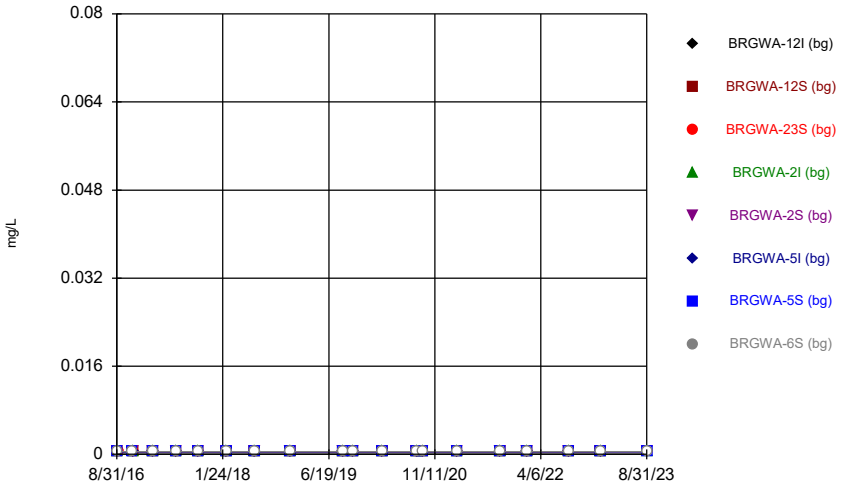
Time Series



Constituent: Barium Analysis Run 10/24/2023 1:00 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG
Hollow symbols indicate censored values.

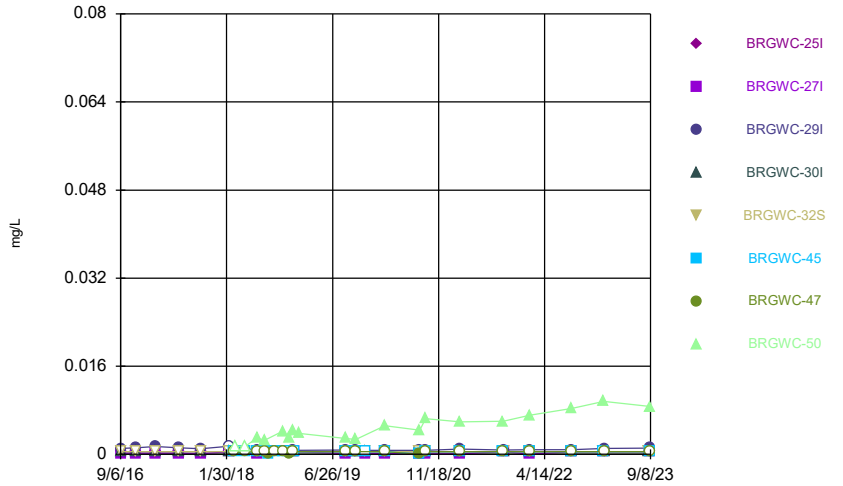
Time Series



Constituent: Beryllium Analysis Run 10/24/2023 1:00 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG
Hollow symbols indicate censored values.

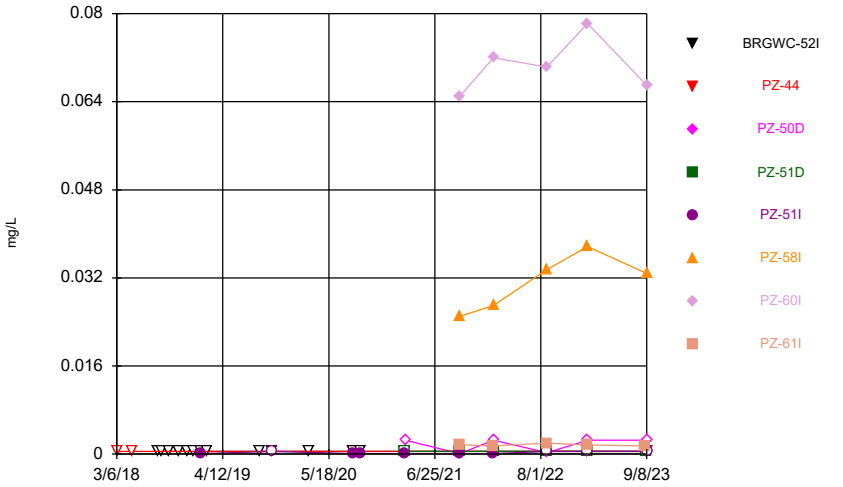
Time Series



Constituent: Beryllium Analysis Run 10/24/2023 1:00 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG
Hollow symbols indicate censored values.

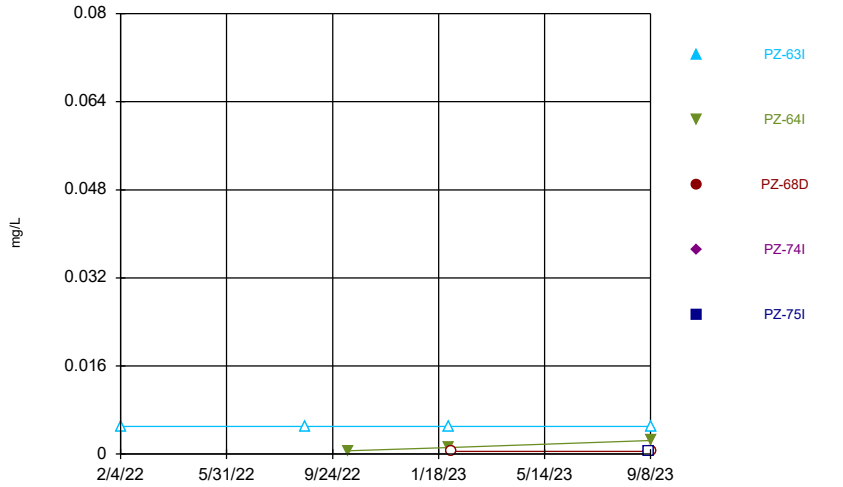
Time Series



Constituent: Beryllium Analysis Run 10/24/2023 1:00 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG
Hollow symbols indicate censored values.

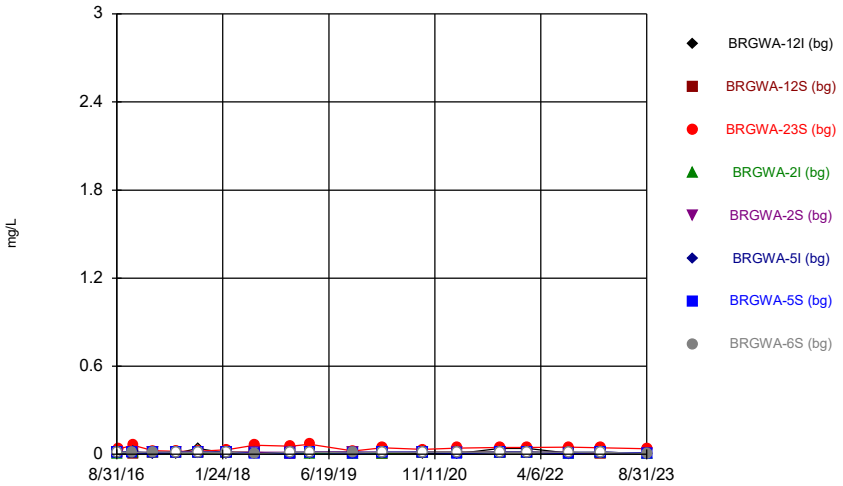
Time Series



Constituent: Beryllium Analysis Run 10/24/2023 1:00 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG
Hollow symbols indicate censored values.

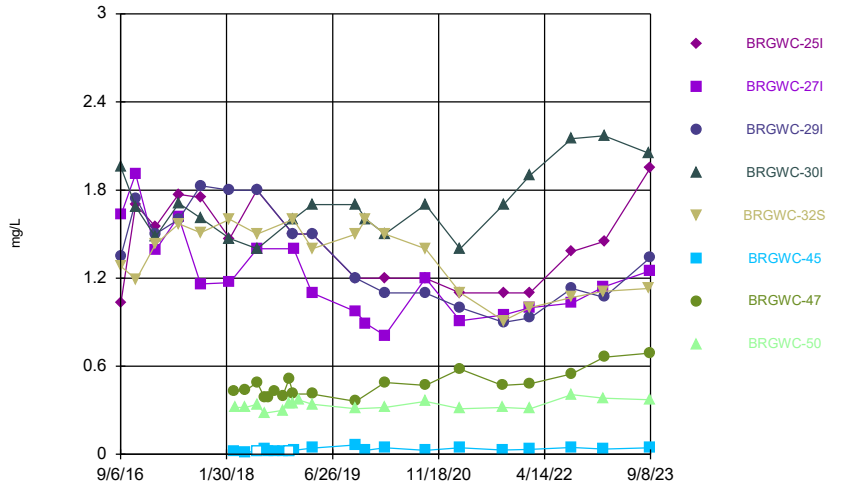
Time Series



Constituent: Boron Analysis Run 10/24/2023 1:00 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG
Hollow symbols indicate censored values.

Time Series



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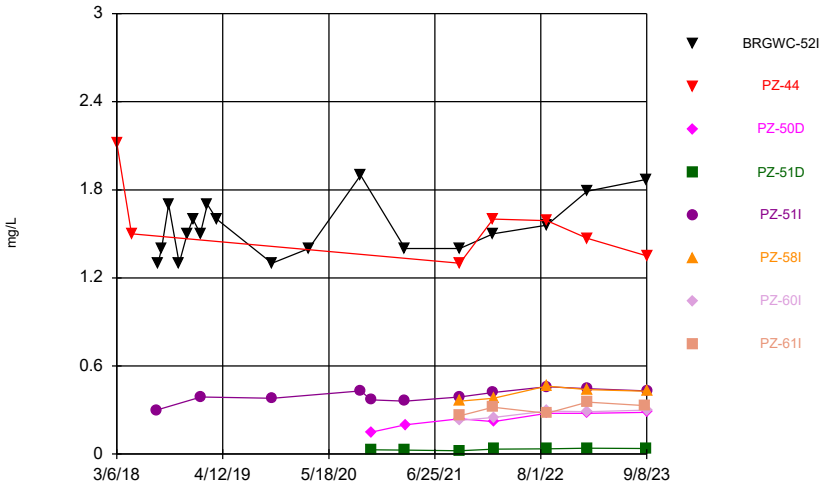
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

Time Series



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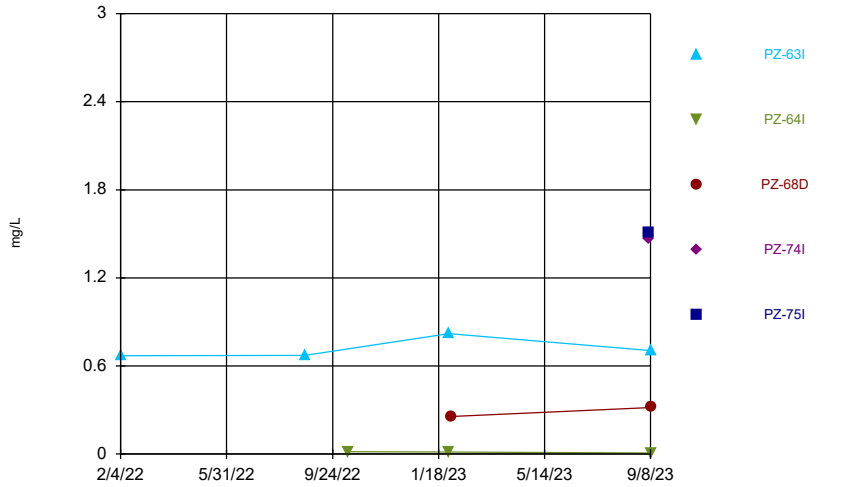
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

Time Series



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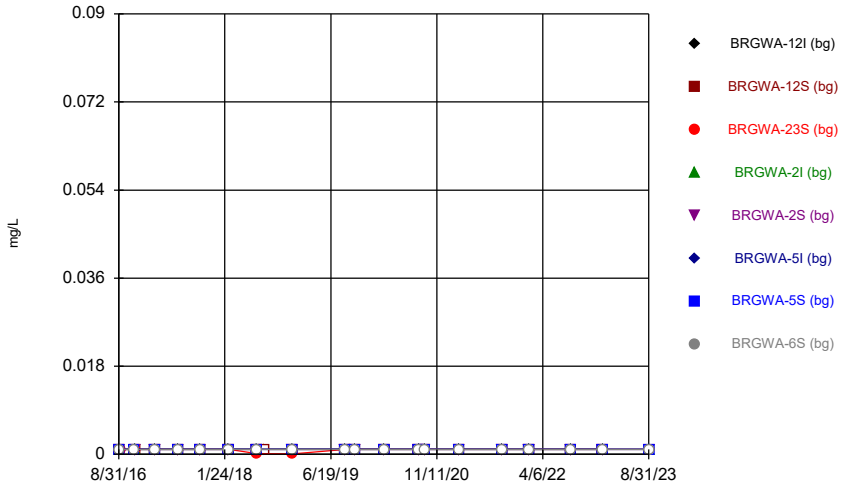
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG
Hollow symbols indicate censored values.

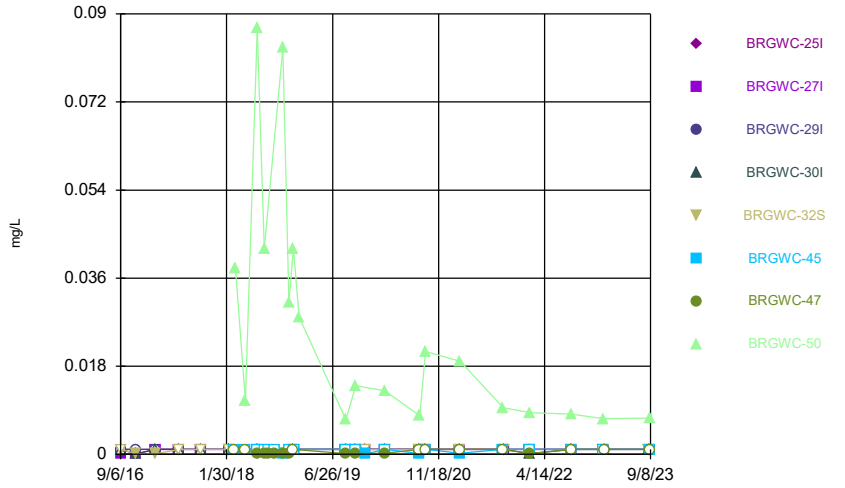
Time Series



Constituent: Cadmium Analysis Run 10/24/2023 1:00 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG
Hollow symbols indicate censored values.

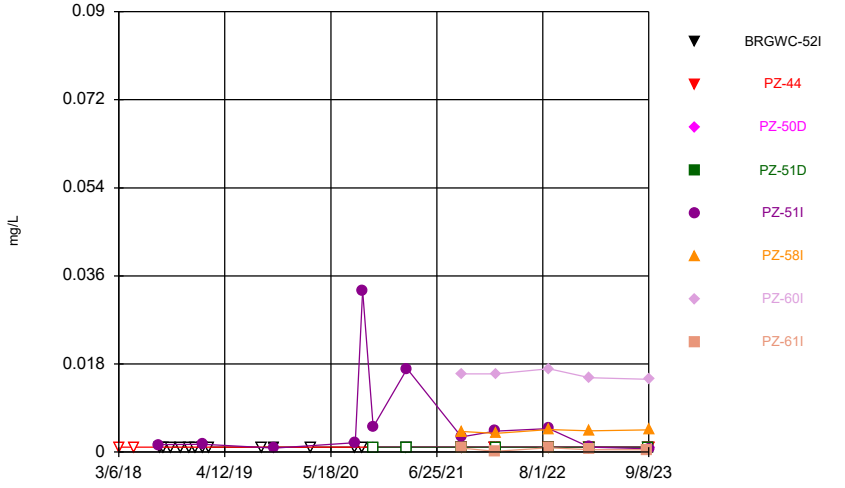
Time Series



Constituent: Cadmium Analysis Run 10/24/2023 1:00 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG
Hollow symbols indicate censored values.

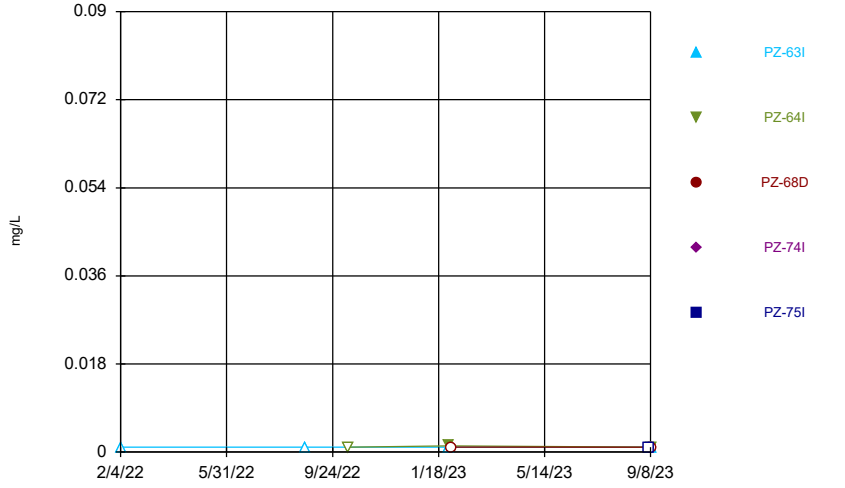
Time Series



Constituent: Cadmium Analysis Run 10/24/2023 1:00 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG
Hollow symbols indicate censored values.

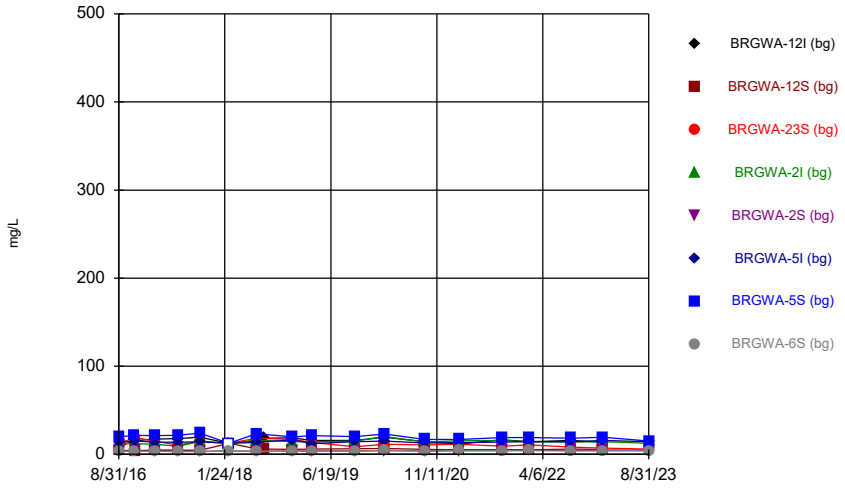
Time Series



Constituent: Cadmium Analysis Run 10/24/2023 1:00 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG
Hollow symbols indicate censored values.

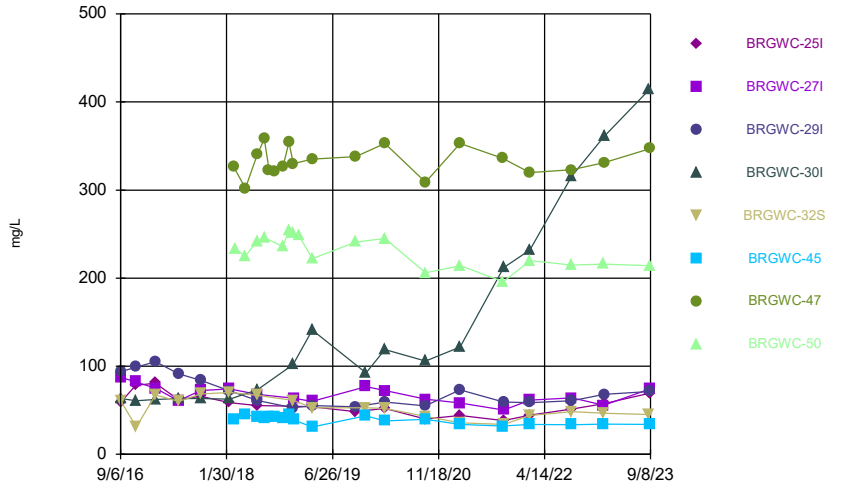
Time Series



Constituent: Calcium Analysis Run 10/24/2023 1:00 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

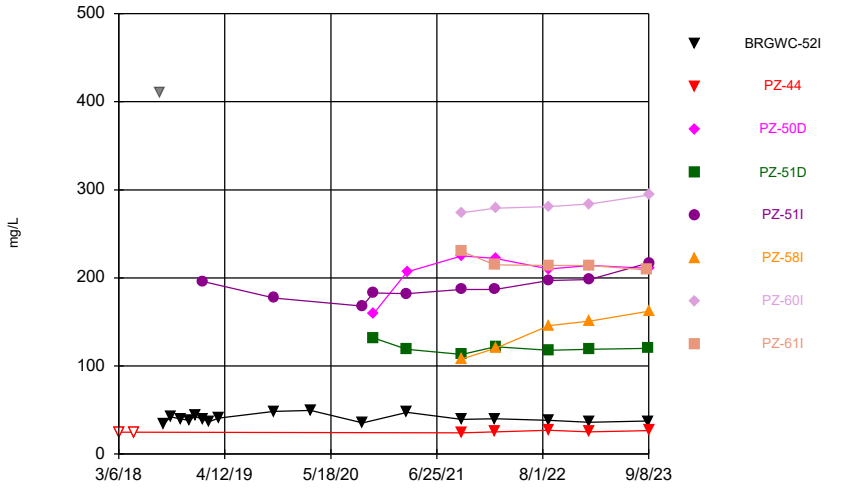
Time Series



Constituent: Calcium Analysis Run 10/24/2023 1:00 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG
Hollow symbols indicate censored values.

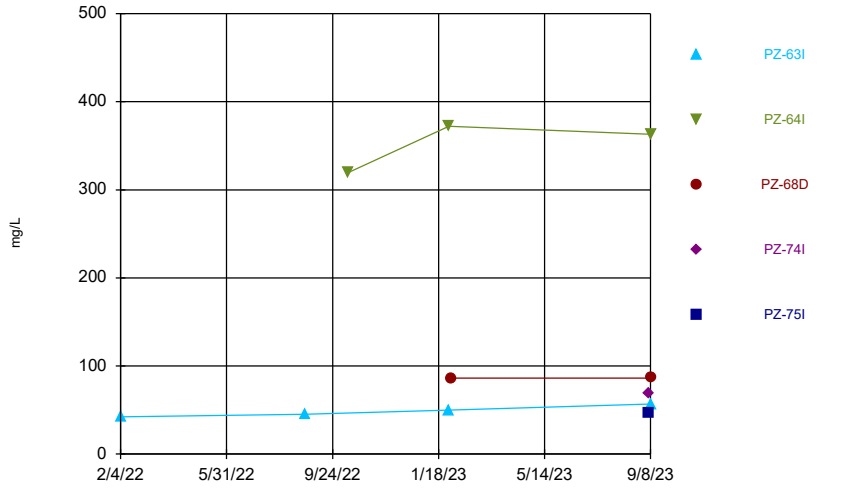
Time Series



Constituent: Calcium Analysis Run 10/24/2023 1:00 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

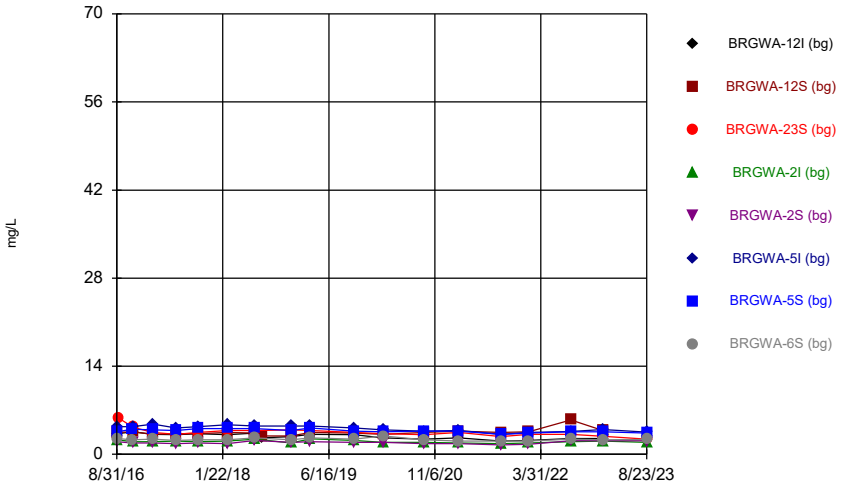
Time Series



Constituent: Calcium Analysis Run 10/24/2023 1:00 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

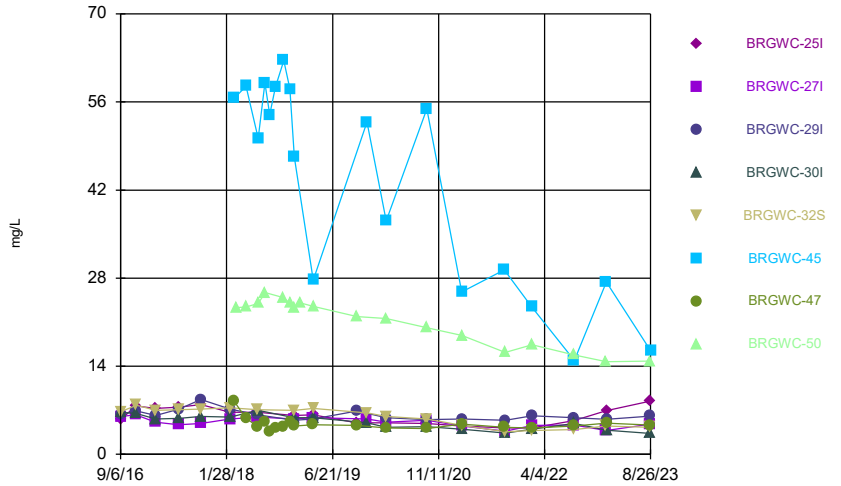
Time Series



Constituent: Chloride Analysis Run 10/24/2023 1:00 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

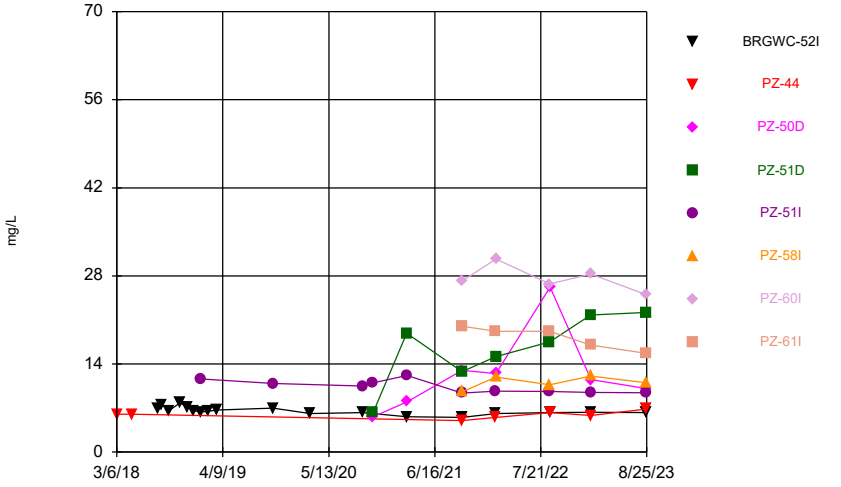
Time Series



Constituent: Chloride Analysis Run 10/24/2023 1:00 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

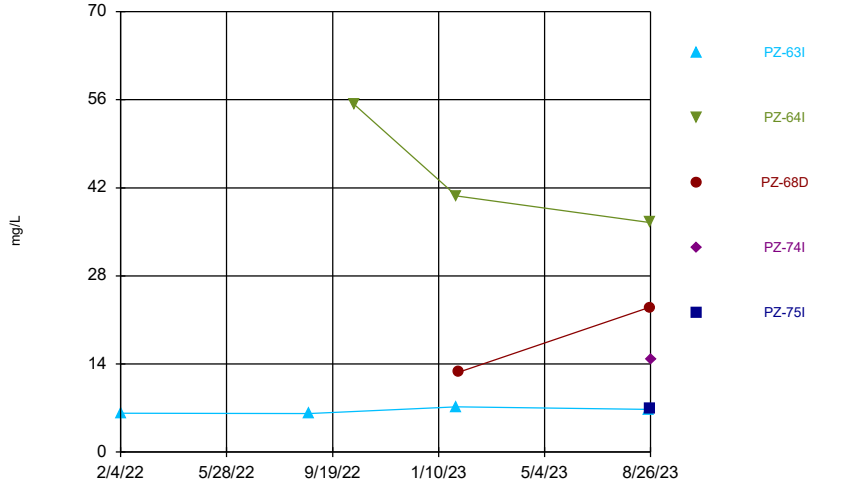
Time Series



Constituent: Chloride Analysis Run 10/24/2023 1:00 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

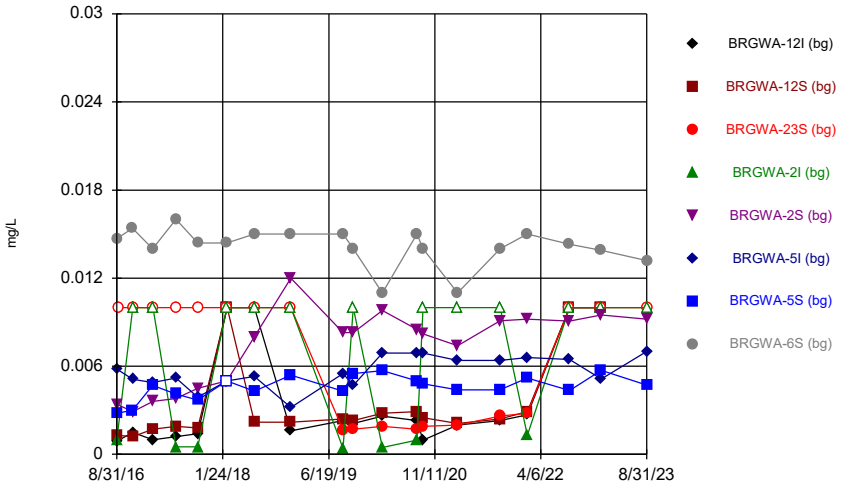
Time Series



Constituent: Chloride Analysis Run 10/24/2023 1:00 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG
Hollow symbols indicate censored values.

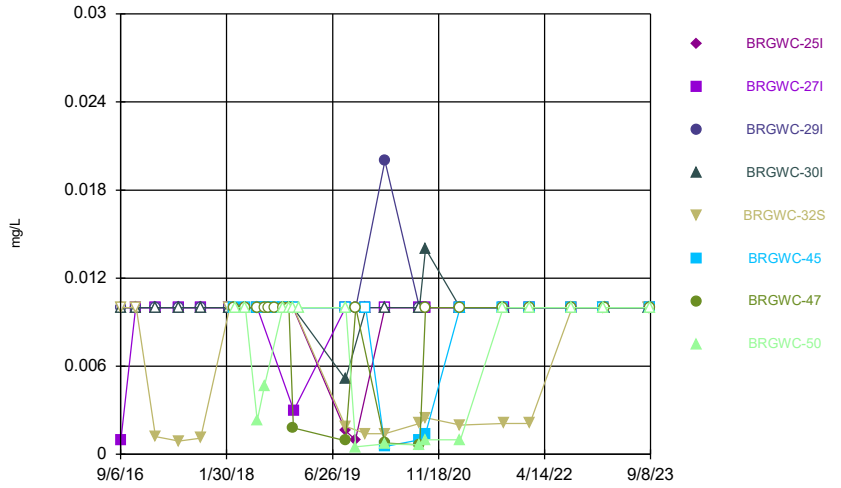
Time Series



Constituent: Chromium Analysis Run 10/24/2023 1:00 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG
Hollow symbols indicate censored values.

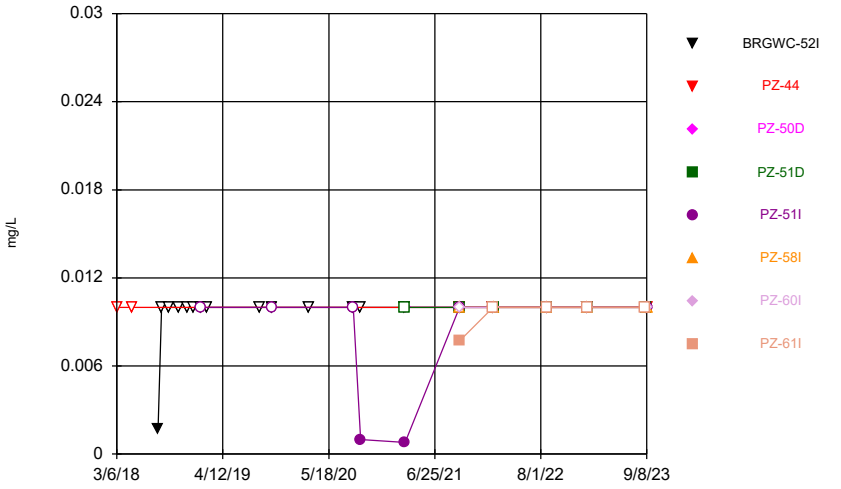
Time Series



Constituent: Chromium Analysis Run 10/24/2023 1:00 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG
Hollow symbols indicate censored values.

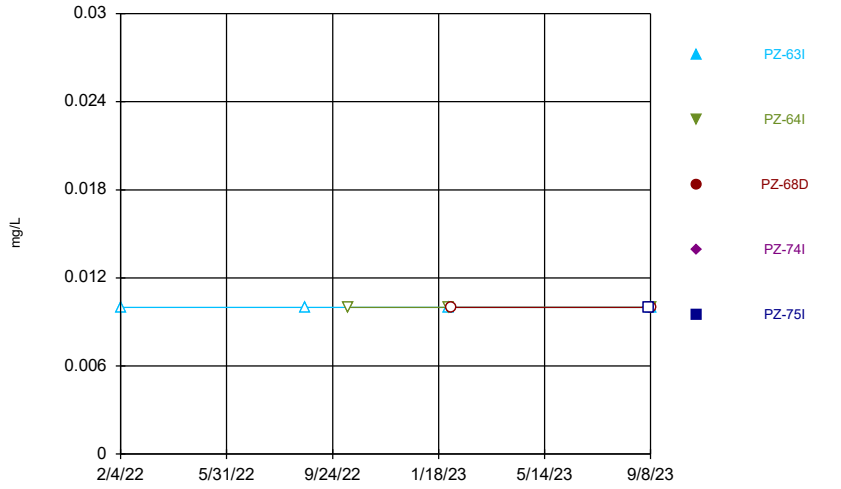
Time Series



Constituent: Chromium Analysis Run 10/24/2023 1:00 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG
Hollow symbols indicate censored values.

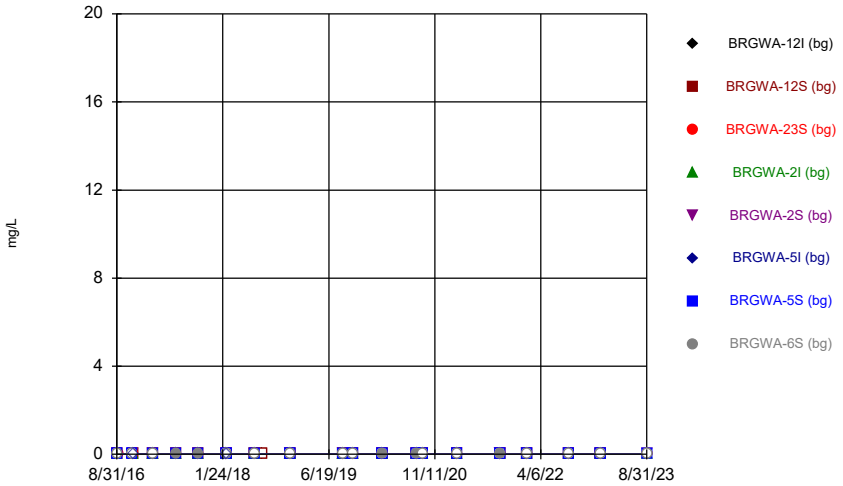
Time Series



Constituent: Chromium Analysis Run 10/24/2023 1:00 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG
Hollow symbols indicate censored values.

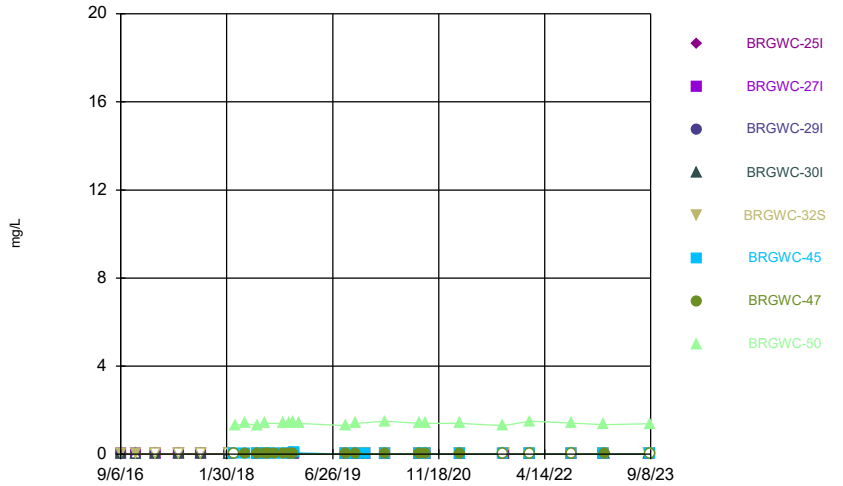
Time Series



Constituent: Cobalt Analysis Run 10/24/2023 1:00 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG
Hollow symbols indicate censored values.

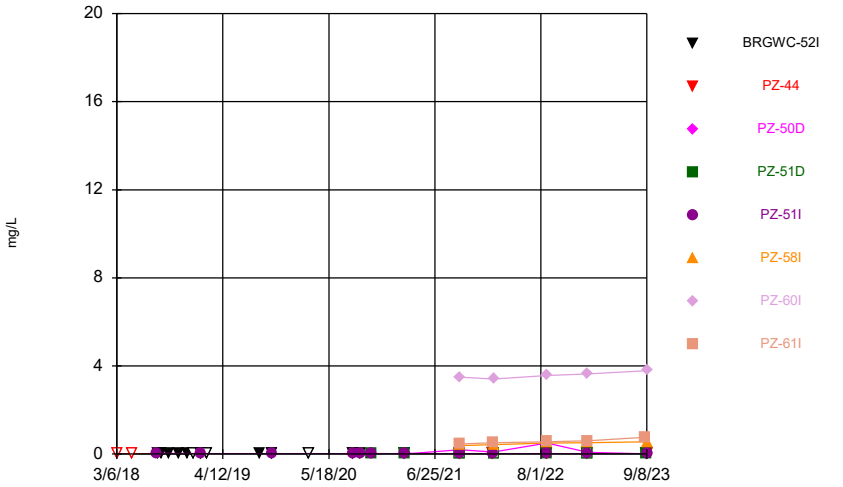
Time Series



Constituent: Cobalt Analysis Run 10/24/2023 1:00 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG
Hollow symbols indicate censored values.

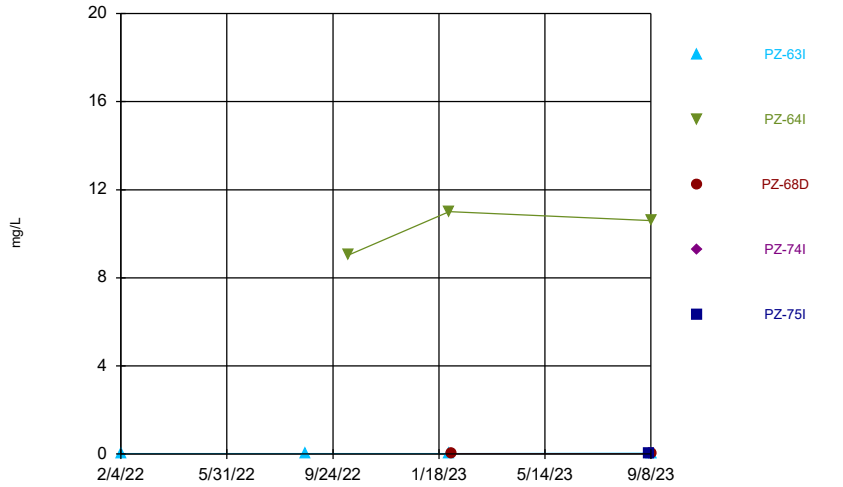
Time Series



Constituent: Cobalt Analysis Run 10/24/2023 1:00 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

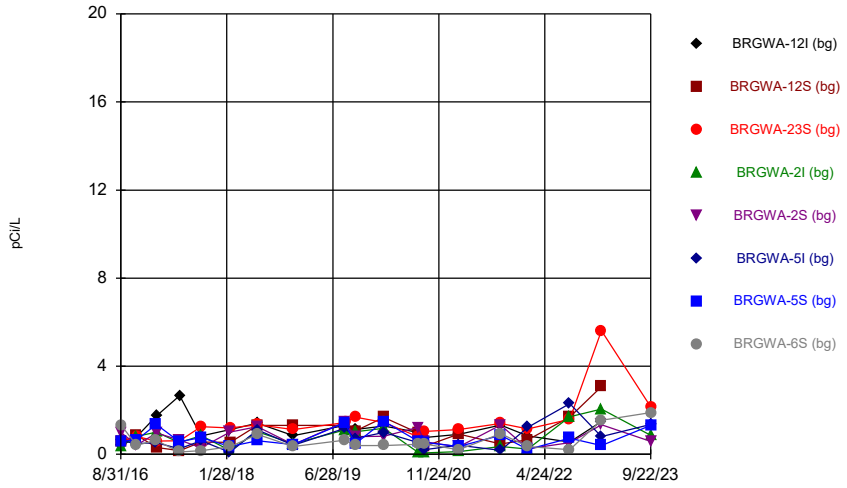
Time Series



Constituent: Cobalt Analysis Run 10/24/2023 1:00 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

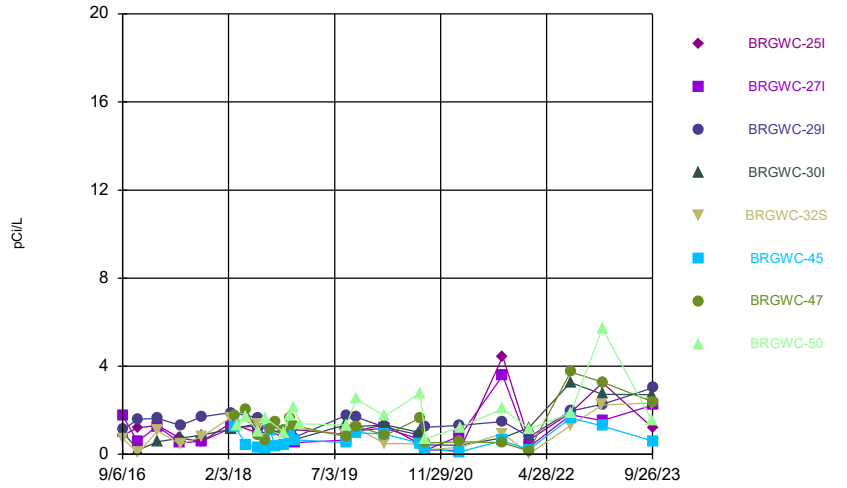
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 10/24/2023 1:00 PM View: Constituents View - B, Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

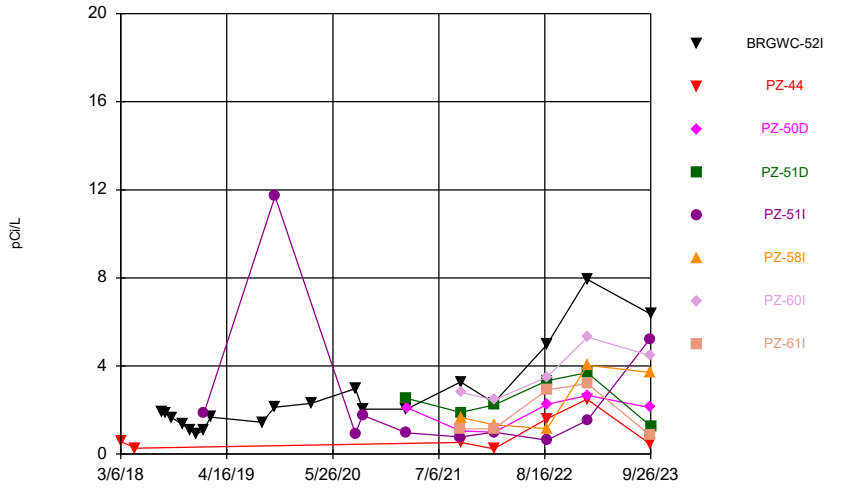
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 10/24/2023 1:00 PM View: Constituents View - B, Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

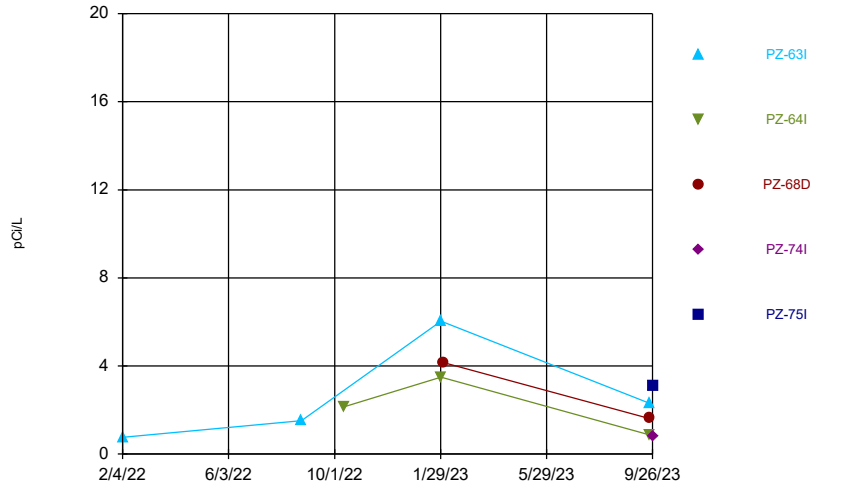
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 10/24/2023 1:00 PM View: Constituents View - B, Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

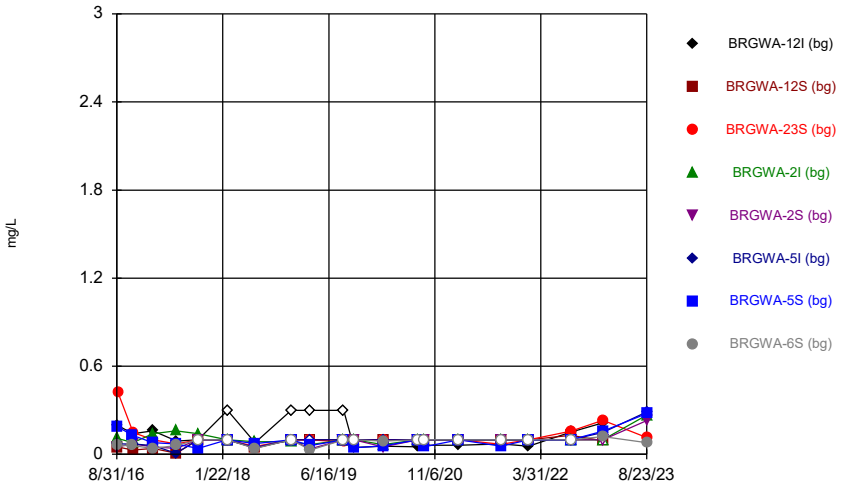
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 10/24/2023 1:00 PM View: Constituents View - B, Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG
Hollow symbols indicate censored values.

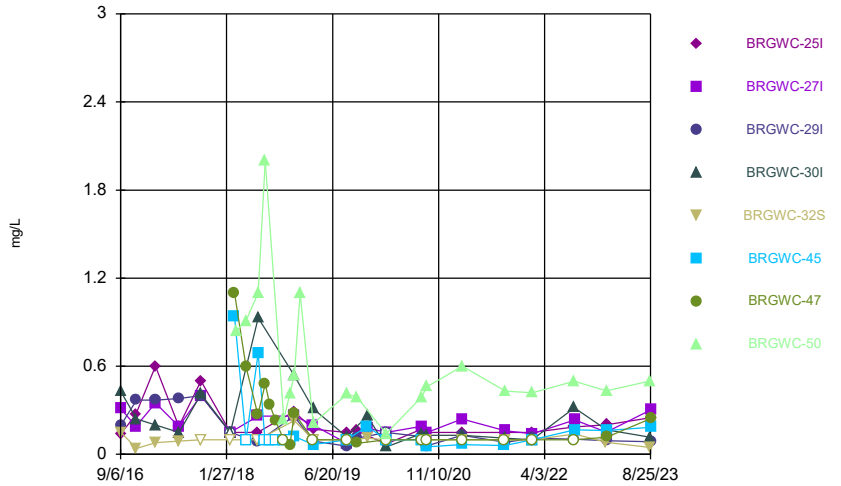
Time Series



Constituent: Fluoride Analysis Run 10/24/2023 1:00 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG
Hollow symbols indicate censored values.

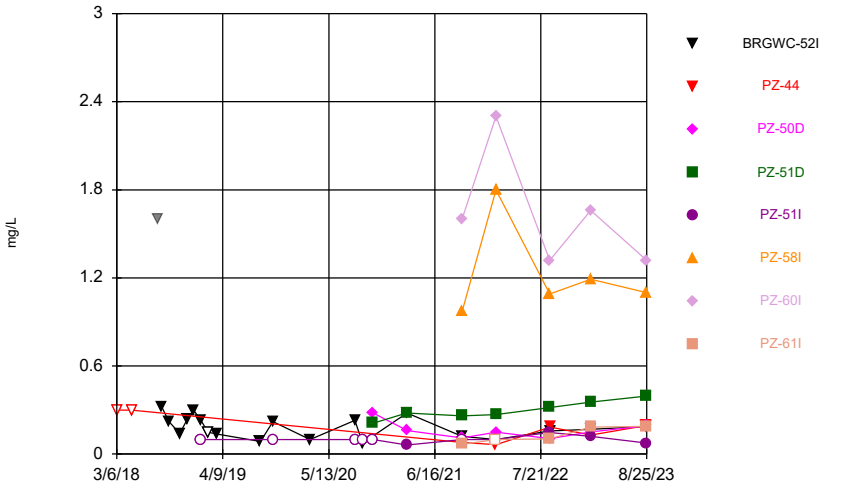
Time Series



Constituent: Fluoride Analysis Run 10/24/2023 1:00 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG
Hollow symbols indicate censored values.

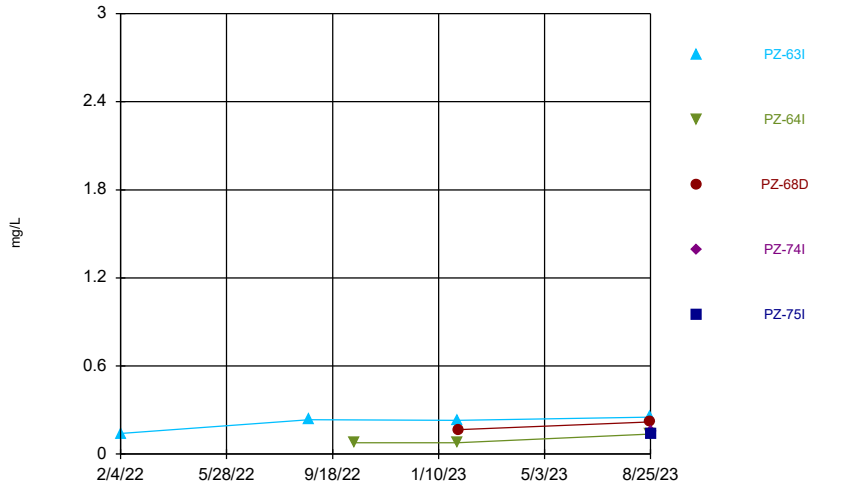
Time Series



Constituent: Fluoride Analysis Run 10/24/2023 1:00 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

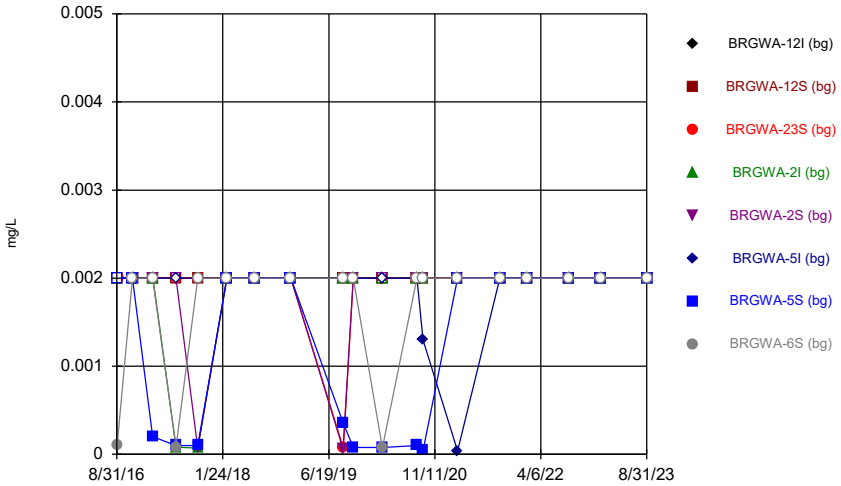
Time Series



Constituent: Fluoride Analysis Run 10/24/2023 1:00 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG
Hollow symbols indicate censored values.

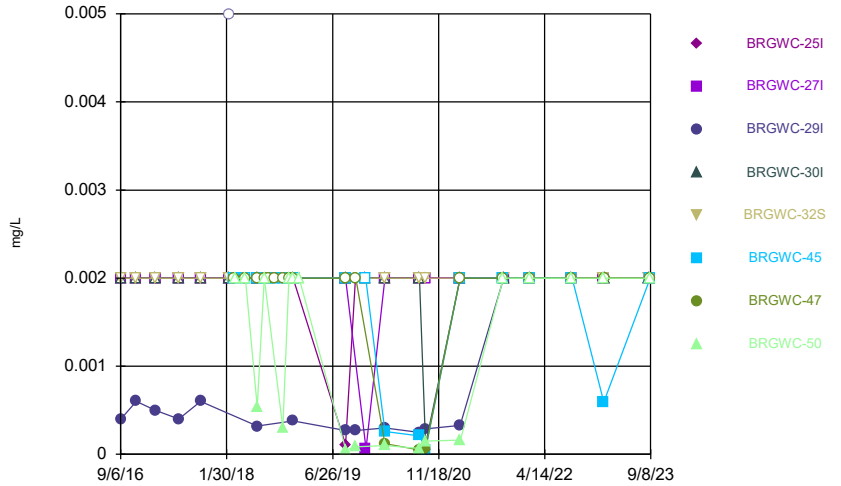
Time Series



Constituent: Lead Analysis Run 10/24/2023 1:00 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG
Hollow symbols indicate censored values.

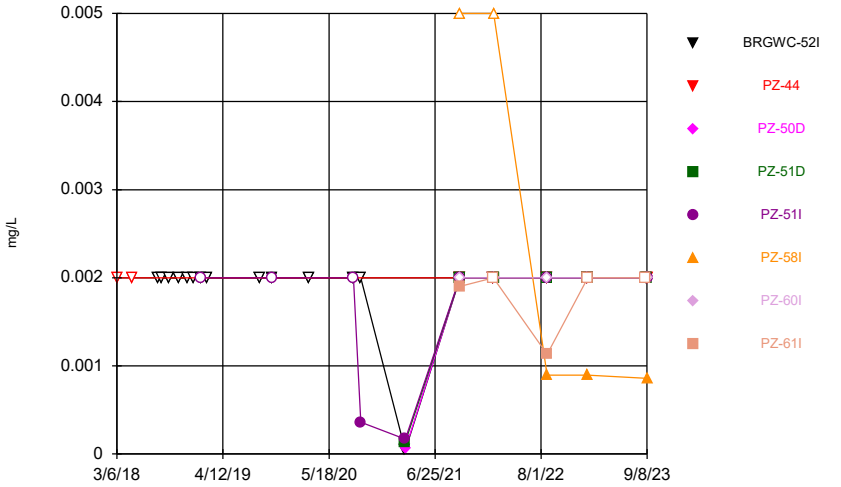
Time Series



Constituent: Lead Analysis Run 10/24/2023 1:00 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG
Hollow symbols indicate censored values.

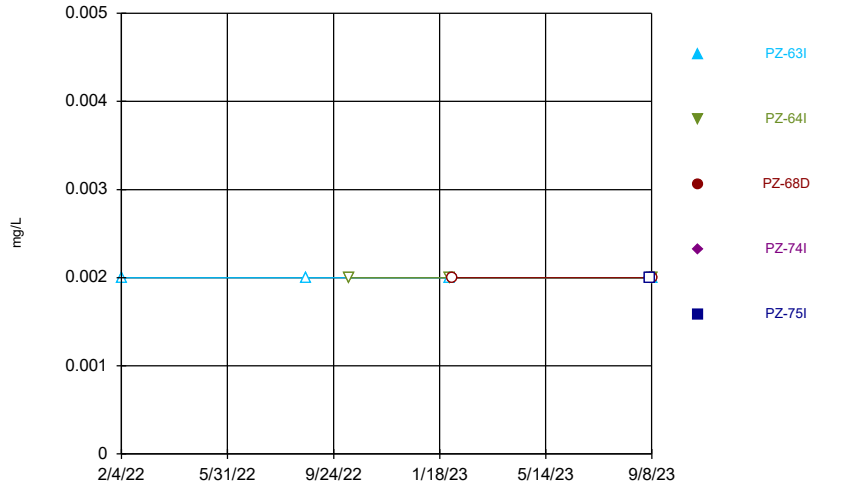
Time Series



Constituent: Lead Analysis Run 10/24/2023 1:00 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG
Hollow symbols indicate censored values.

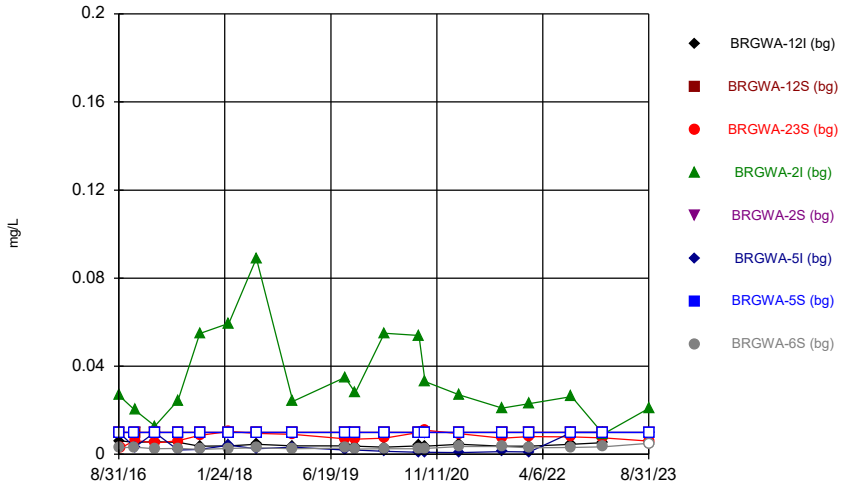
Time Series



Constituent: Lead Analysis Run 10/24/2023 1:00 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG
Hollow symbols indicate censored values.

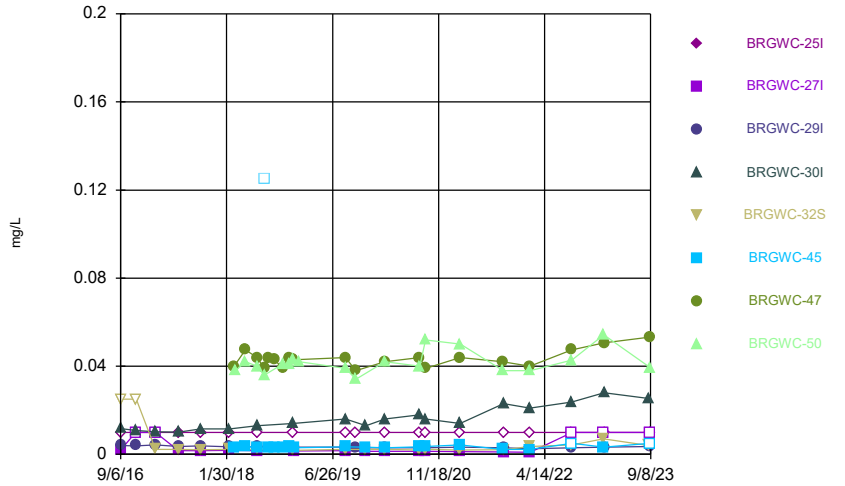
Time Series



Constituent: Lithium Analysis Run 10/24/2023 1:00 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG
Hollow symbols indicate censored values.

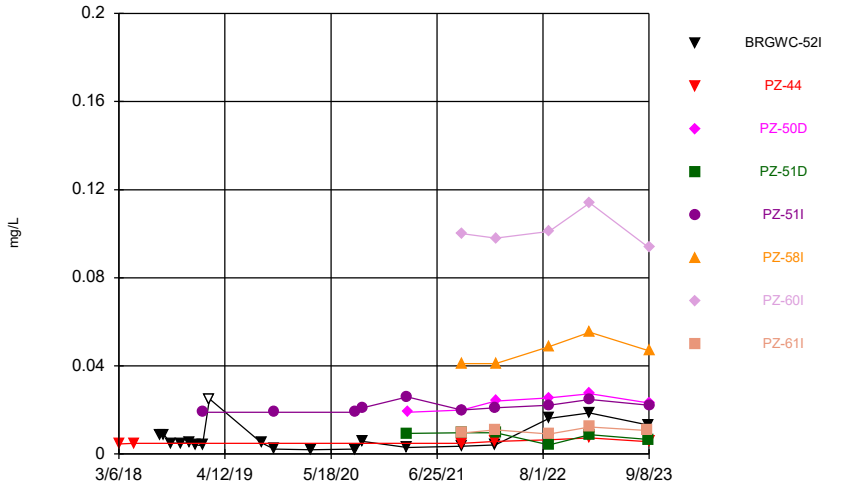
Time Series



Constituent: Lithium Analysis Run 10/24/2023 1:00 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG
Hollow symbols indicate censored values.

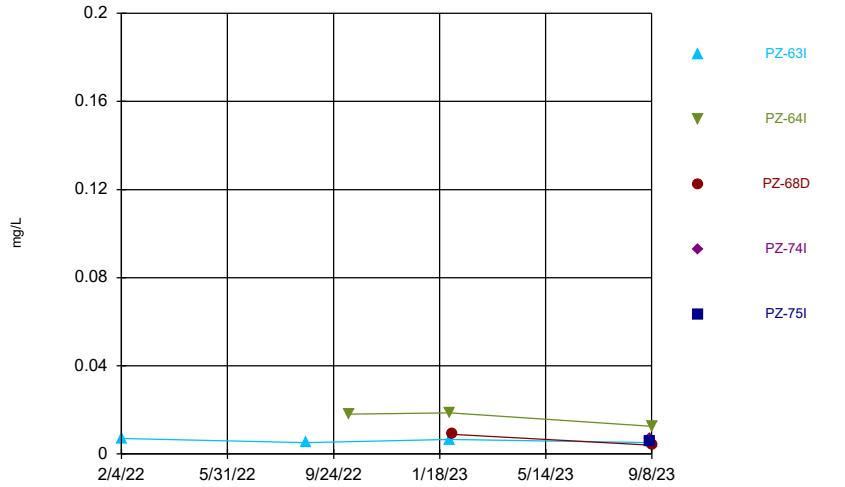
Time Series



Constituent: Lithium Analysis Run 10/24/2023 1:00 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

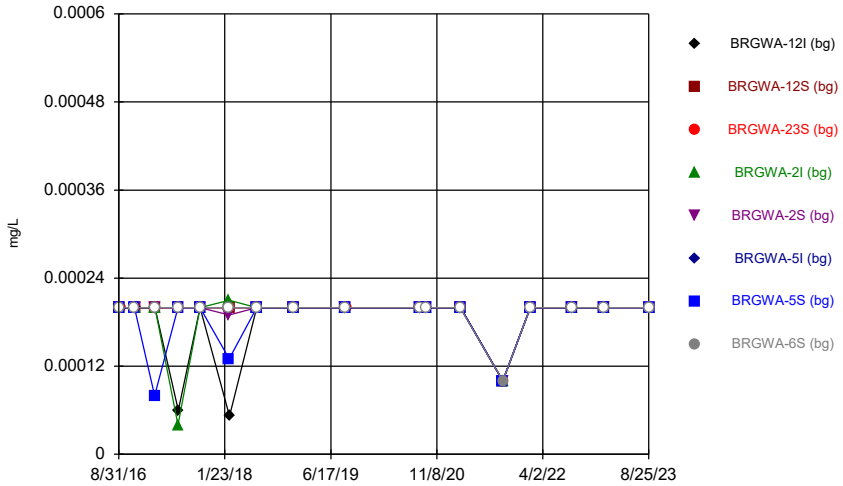
Time Series



Constituent: Lithium Analysis Run 10/24/2023 1:00 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG
Hollow symbols indicate censored values.

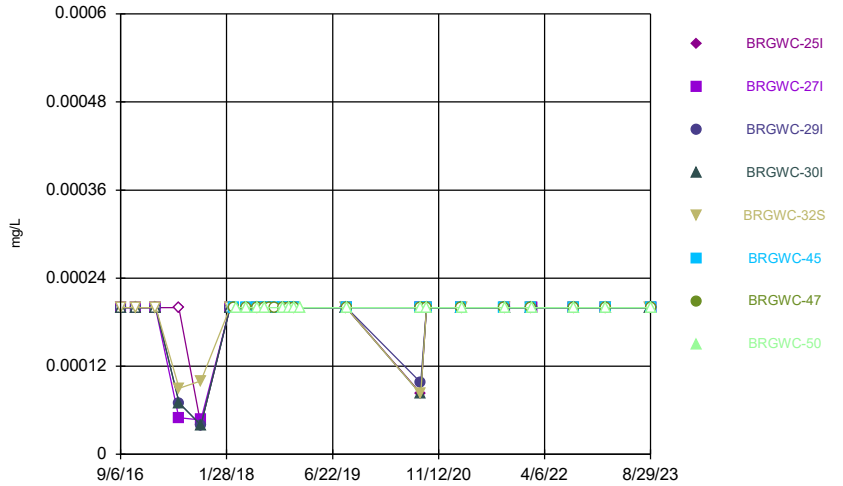
Time Series



Constituent: Mercury Analysis Run 10/24/2023 1:01 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG
Hollow symbols indicate censored values.

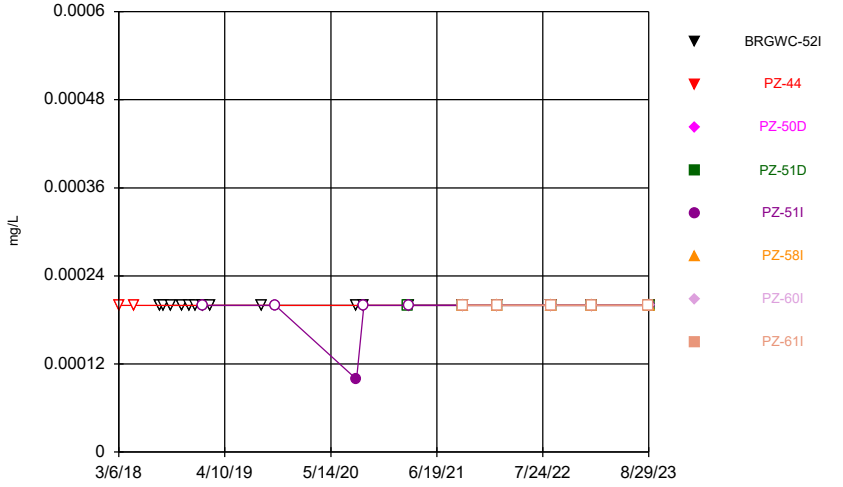
Time Series



Constituent: Mercury Analysis Run 10/24/2023 1:01 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG
Hollow symbols indicate censored values.

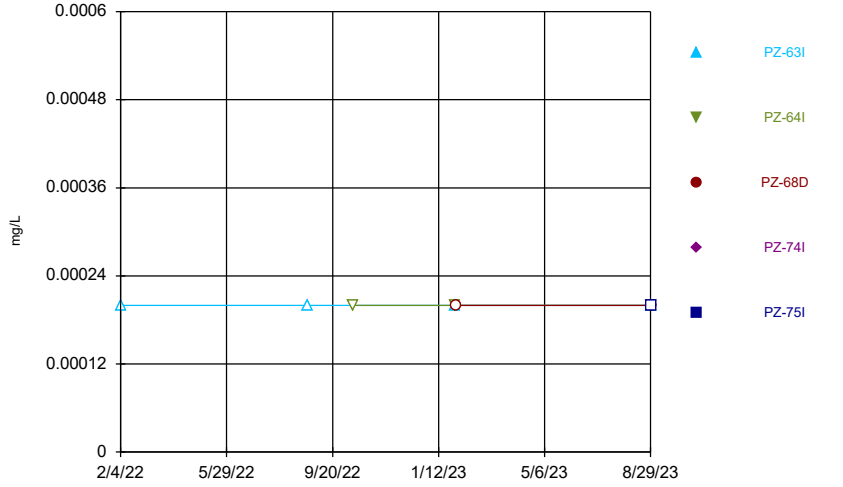
Time Series



Constituent: Mercury Analysis Run 10/24/2023 1:01 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG
Hollow symbols indicate censored values.

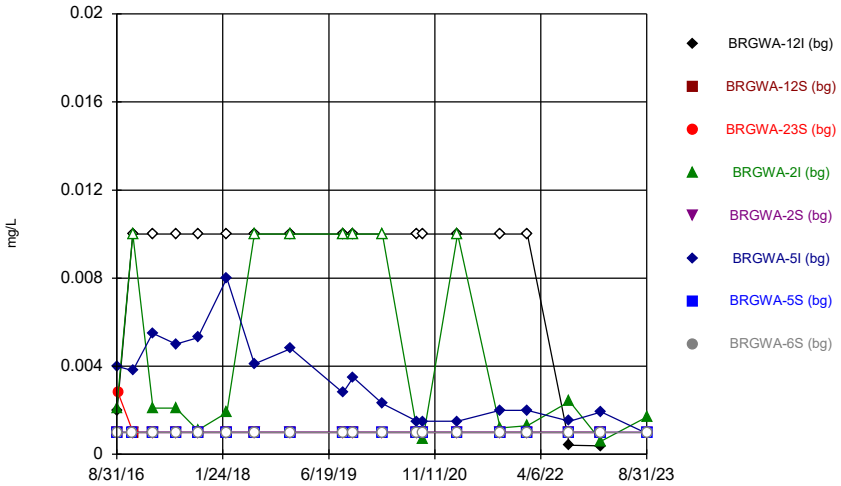
Time Series



Constituent: Mercury Analysis Run 10/24/2023 1:01 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG
Hollow symbols indicate censored values.

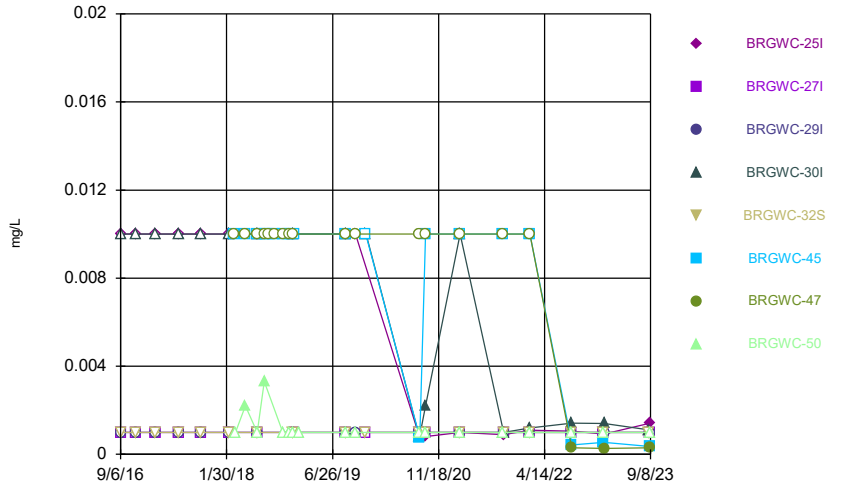
Time Series



Constituent: Molybdenum Analysis Run 10/24/2023 1:01 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG
Hollow symbols indicate censored values.

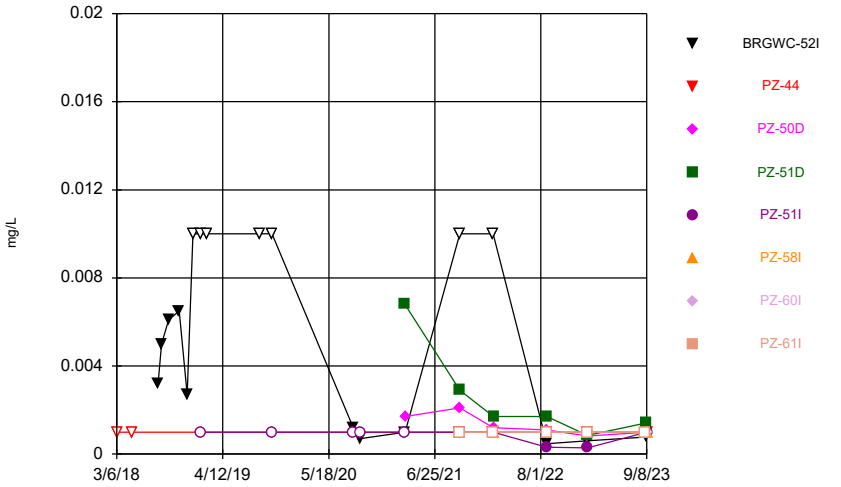
Time Series



Constituent: Molybdenum Analysis Run 10/24/2023 1:01 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG
Hollow symbols indicate censored values.

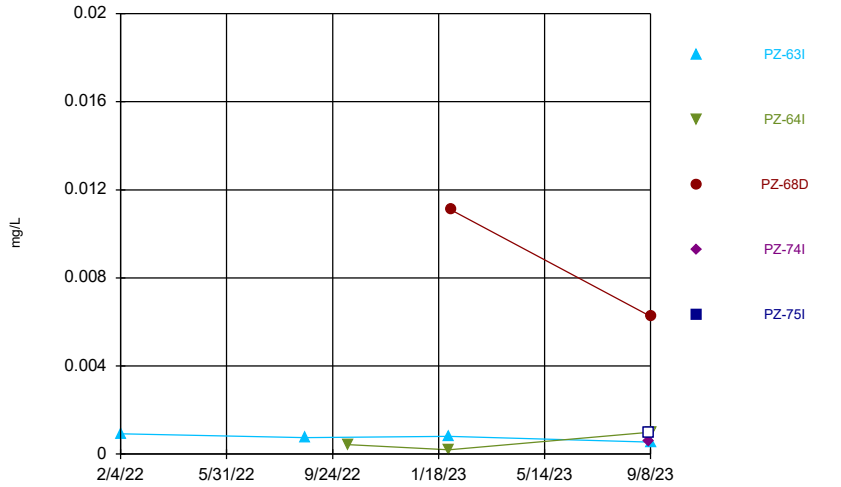
Time Series



Constituent: Molybdenum Analysis Run 10/24/2023 1:01 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG
Hollow symbols indicate censored values.

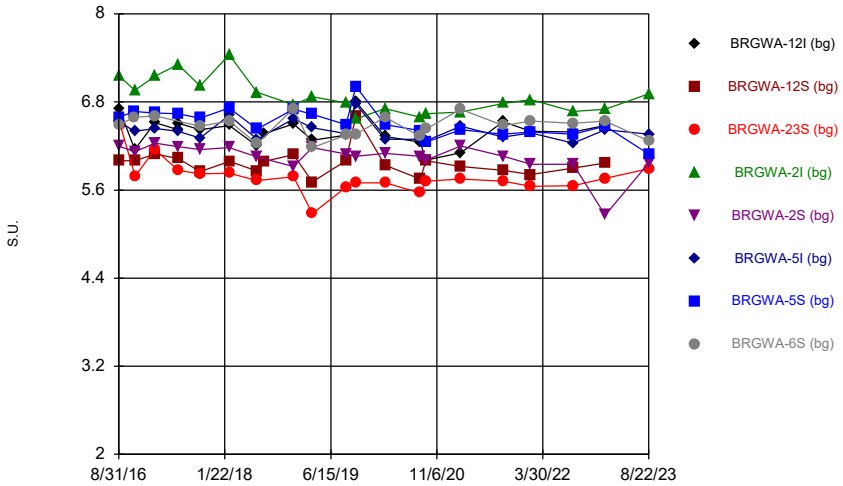
Time Series



Constituent: Molybdenum Analysis Run 10/24/2023 1:01 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

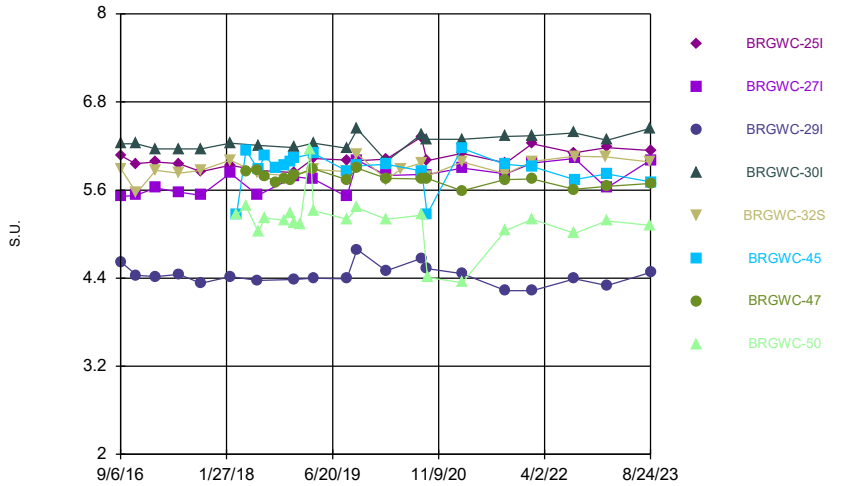
Time Series



Constituent: pH, Field Analysis Run 10/24/2023 1:01 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

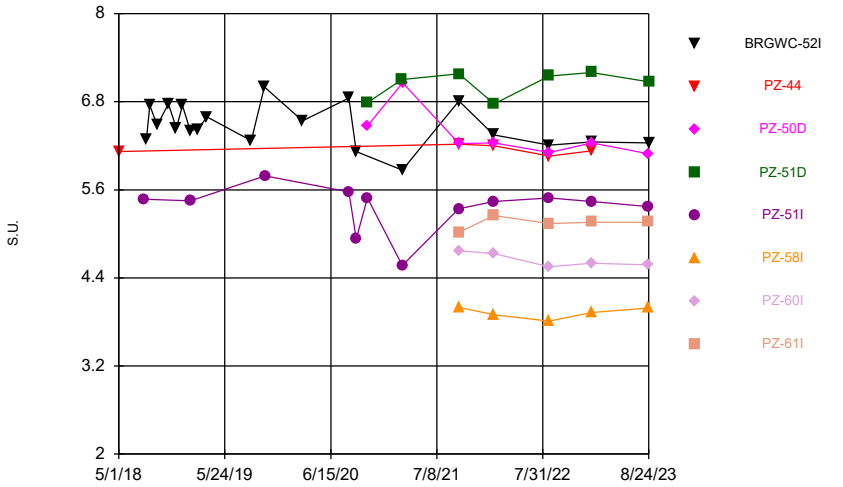
Time Series



Constituent: pH, Field Analysis Run 10/24/2023 1:01 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

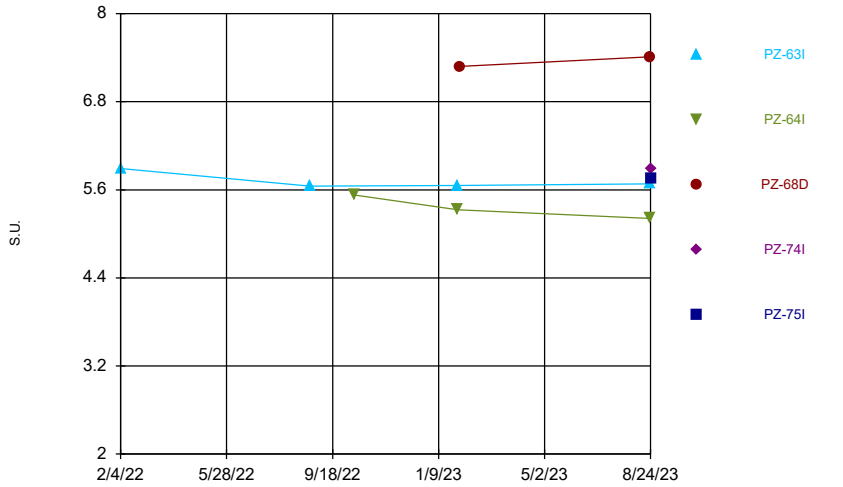
Time Series



Constituent: pH, Field Analysis Run 10/24/2023 1:01 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

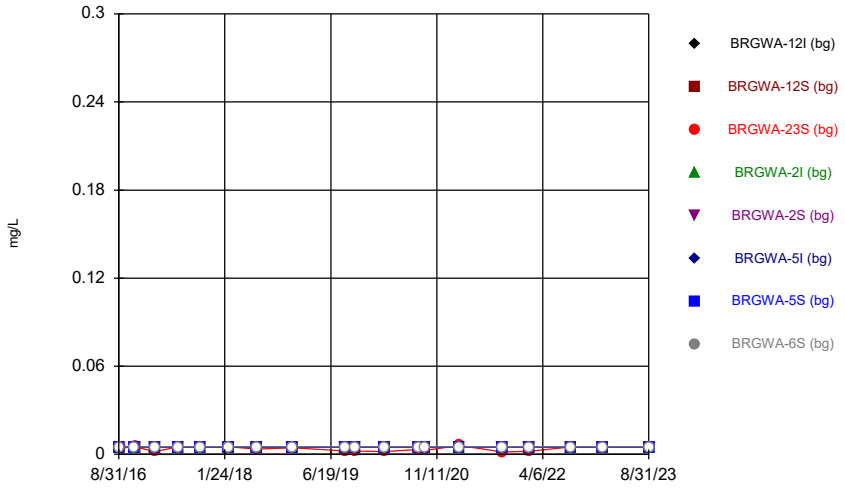
Time Series



Constituent: pH, Field Analysis Run 10/24/2023 1:01 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG
Hollow symbols indicate censored values.

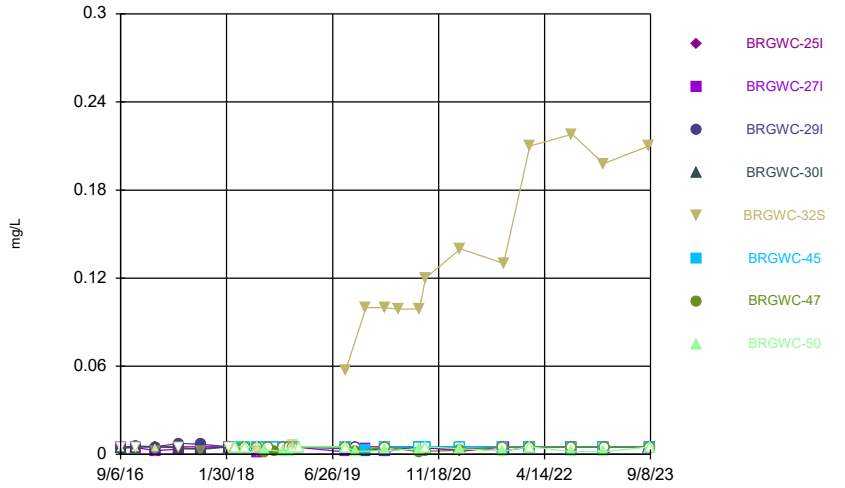
Time Series



Constituent: Selenium Analysis Run 10/24/2023 1:01 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG
Hollow symbols indicate censored values.

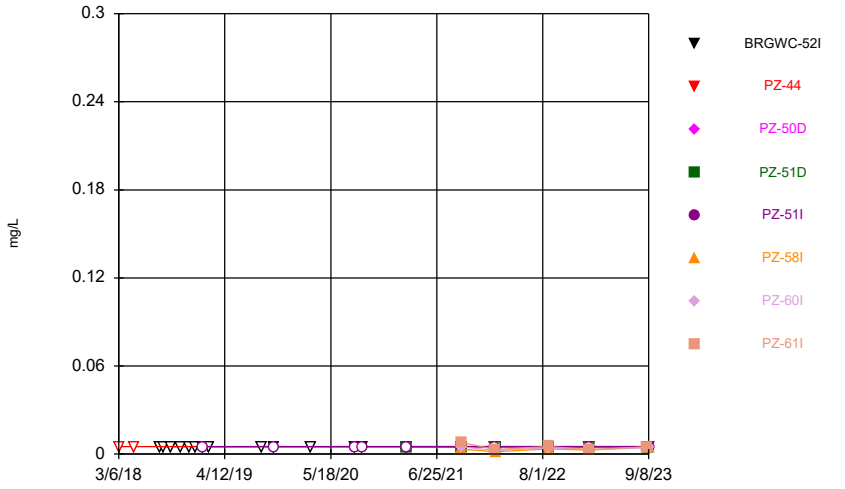
Time Series



Constituent: Selenium Analysis Run 10/24/2023 1:01 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG
Hollow symbols indicate censored values.

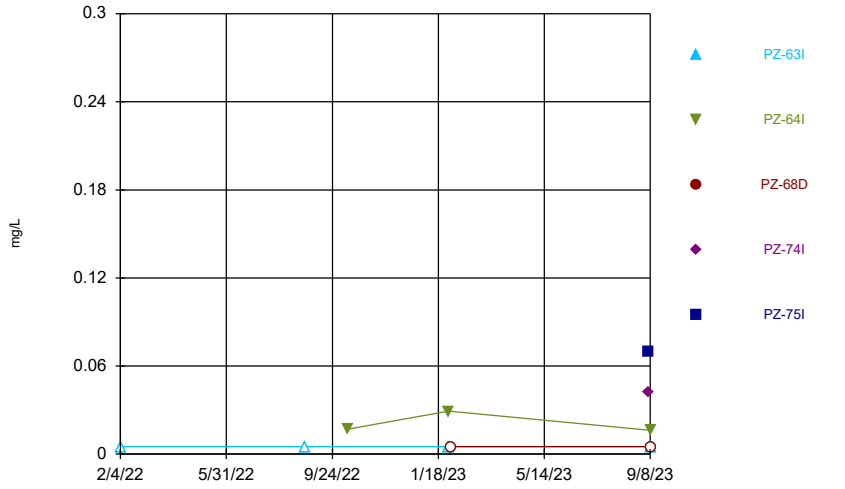
Time Series



Constituent: Selenium Analysis Run 10/24/2023 1:01 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG
Hollow symbols indicate censored values.

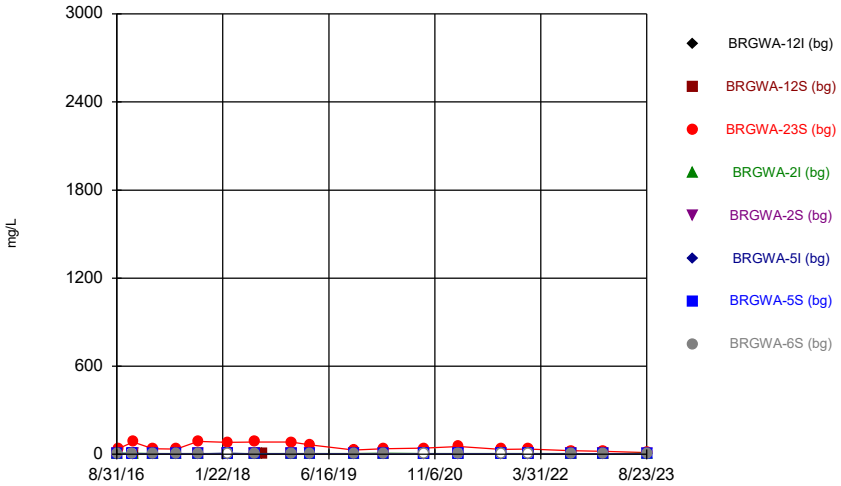
Time Series



Constituent: Selenium Analysis Run 10/24/2023 1:01 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG
Hollow symbols indicate censored values.

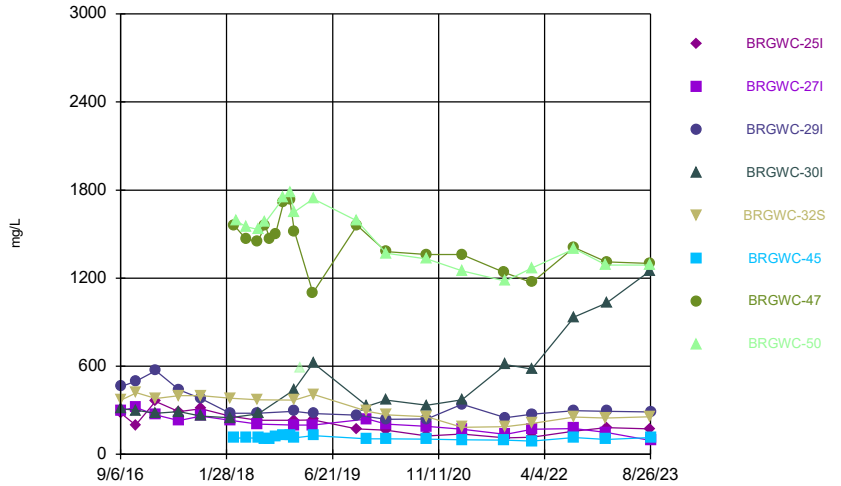
Time Series



Constituent: Sulfate Analysis Run 10/24/2023 1:01 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

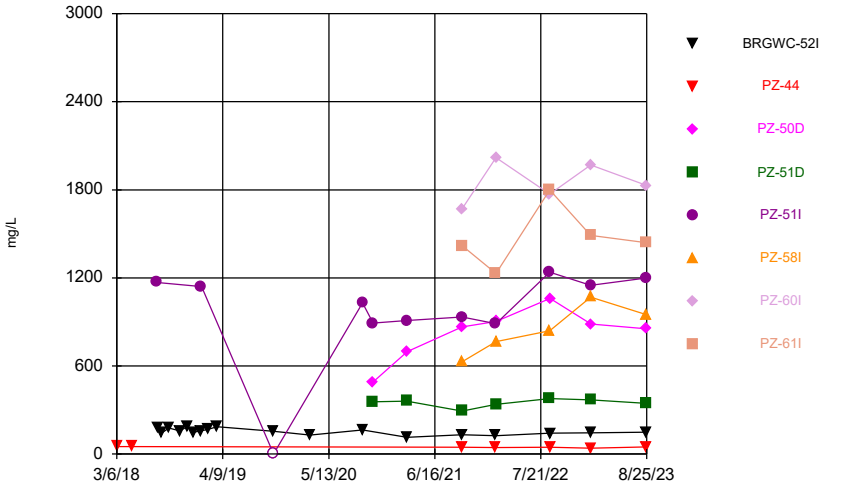
Time Series



Constituent: Sulfate Analysis Run 10/24/2023 1:01 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG
Hollow symbols indicate censored values.

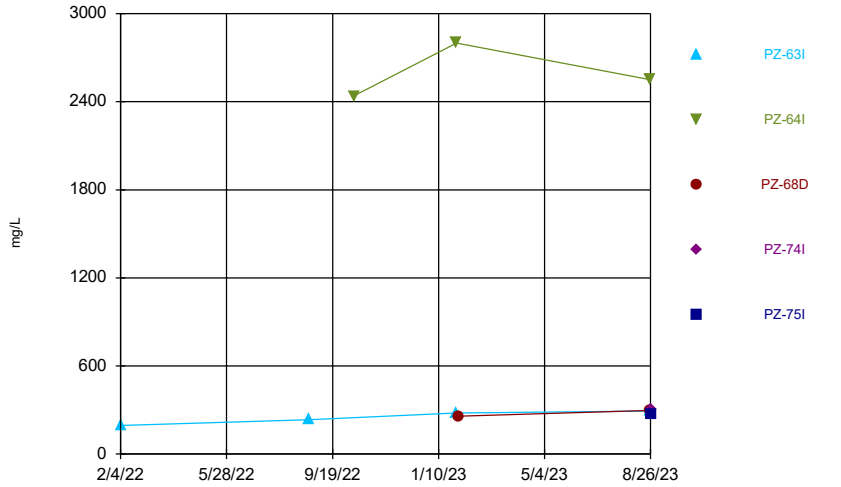
Time Series



Constituent: Sulfate Analysis Run 10/24/2023 1:01 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

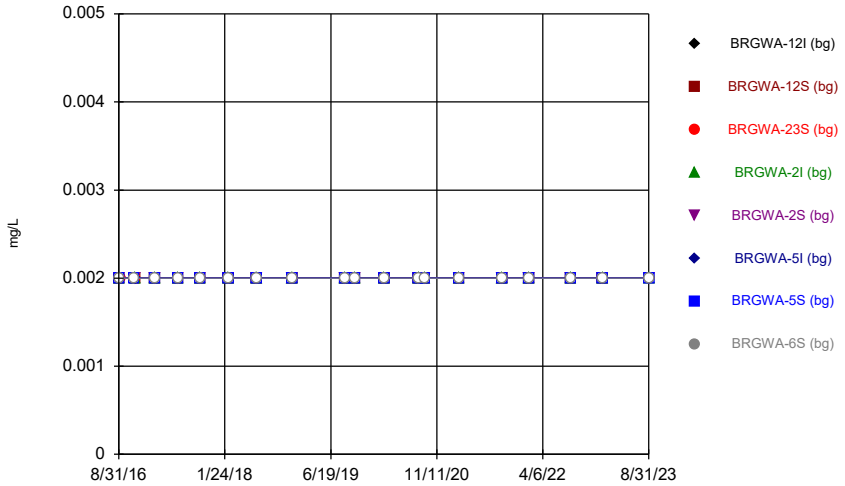
Time Series



Constituent: Sulfate Analysis Run 10/24/2023 1:01 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG
Hollow symbols indicate censored values.

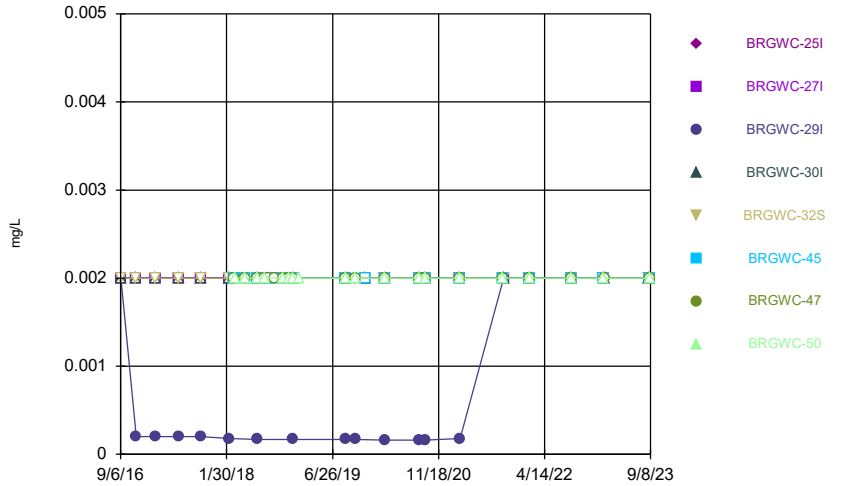
Time Series



Constituent: Thallium Analysis Run 10/24/2023 1:01 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG
Hollow symbols indicate censored values.

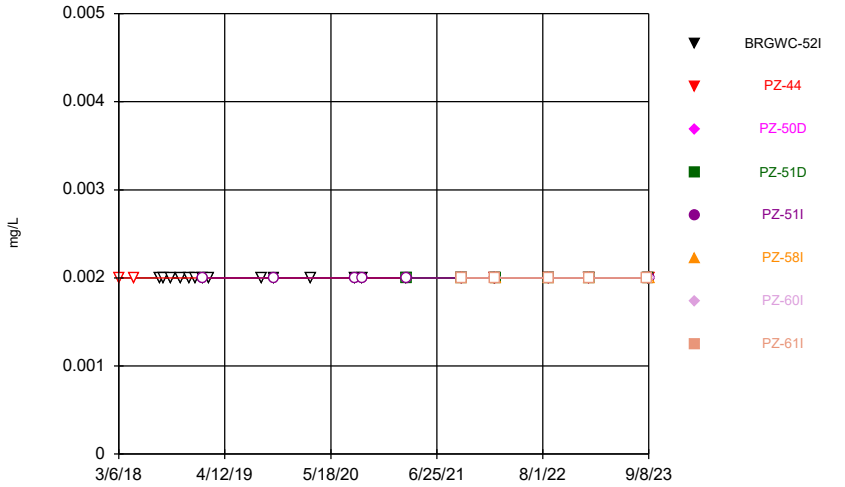
Time Series



Constituent: Thallium Analysis Run 10/24/2023 1:01 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG
Hollow symbols indicate censored values.

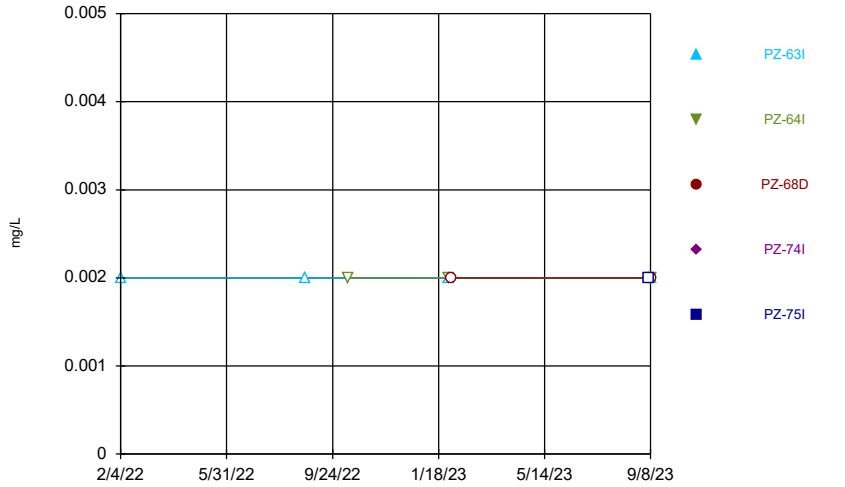
Time Series



Constituent: Thallium Analysis Run 10/24/2023 1:01 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG
Hollow symbols indicate censored values.

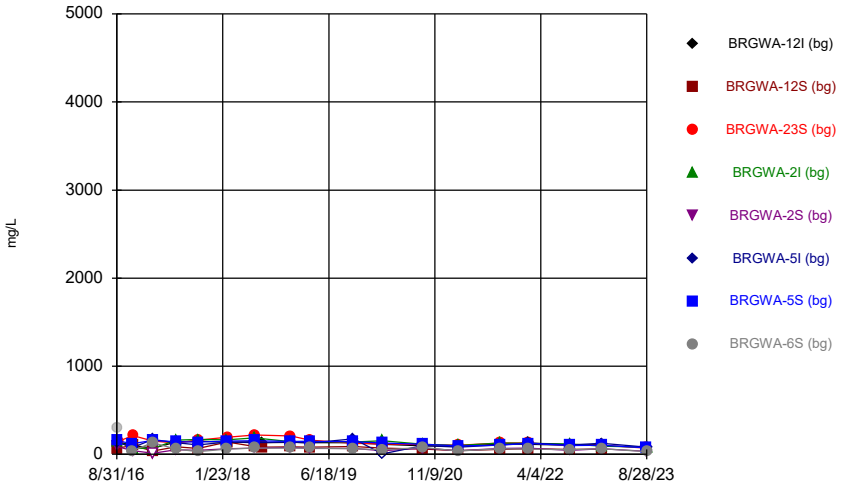
Time Series



Constituent: Thallium Analysis Run 10/24/2023 1:01 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG
Hollow symbols indicate censored values.

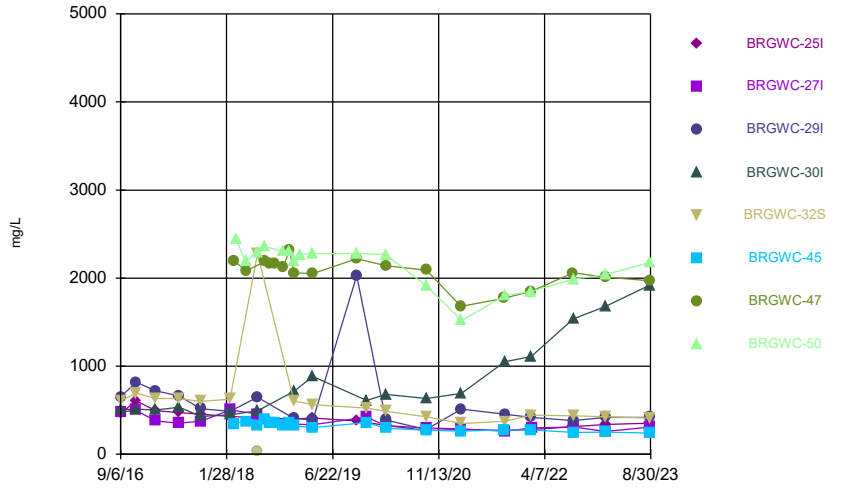
Time Series



Constituent: Total Dissolved Solids Analysis Run 10/24/2023 1:01 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

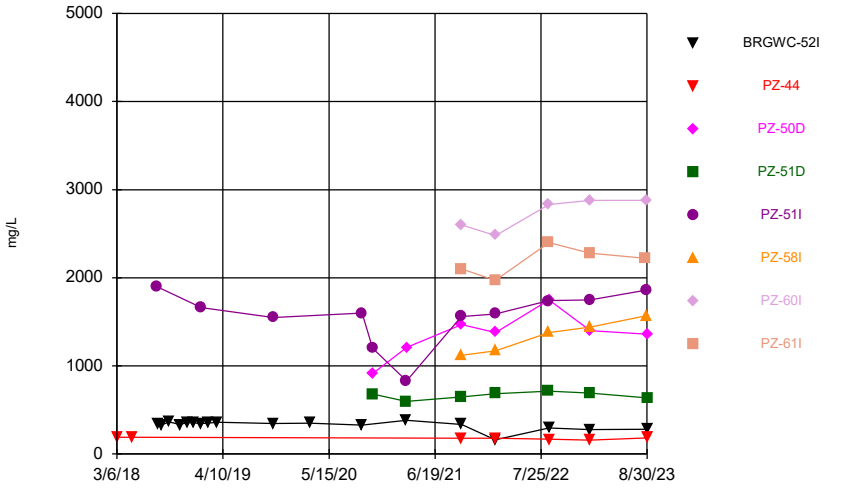
Time Series



Constituent: Total Dissolved Solids Analysis Run 10/24/2023 1:01 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

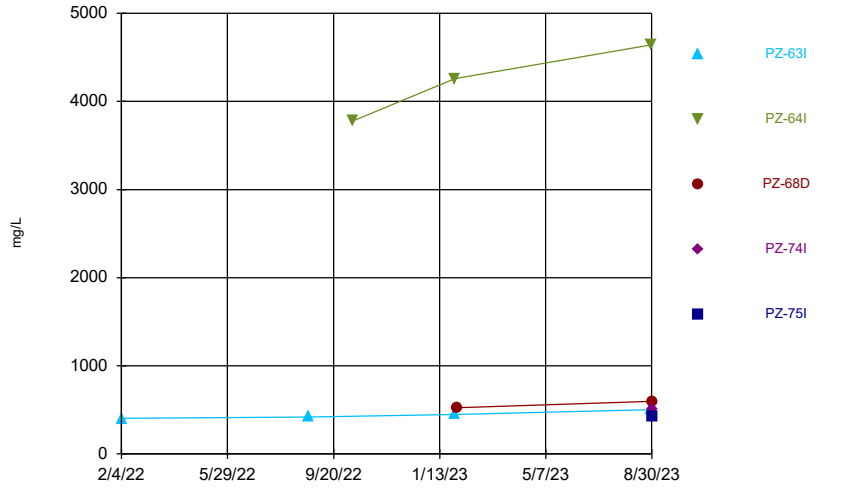
Time Series



Constituent: Total Dissolved Solids Analysis Run 10/24/2023 1:01 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

Time Series



Constituent: Total Dissolved Solids Analysis Run 10/24/2023 1:01 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Time Series

Constituent: Antimony (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWA-12I (bg)	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)
8/31/2016				0.0009 (J)	<0.003	<0.003	<0.003	
9/1/2016	0.0015 (J)	<0.003						<0.003
9/6/2016			<0.003					
11/15/2016							<0.003	<0.003
11/16/2016	<0.003	0.0011 (J)		<0.003	<0.003	<0.003		
11/17/2016			<0.003					
2/20/2017						<0.003	<0.003	<0.003
2/21/2017	<0.003	<0.003	<0.003	<0.003	<0.003			
6/12/2017				<0.003		<0.003	<0.003	<0.003
6/13/2017		0.0009 (J)	<0.003		0.0011 (J)			
6/14/2017	0.0014 (J)							
9/26/2017	<0.003	0.0032	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
2/13/2018				<0.003	<0.003	<0.003	<0.003	<0.003
2/14/2018	<0.003	<0.003	<0.003					
6/26/2018	<0.003	<0.003	0.002 (J)	<0.003	<0.003	<0.003	<0.003	<0.003
12/18/2018	0.009	<0.003	<0.003	<0.003	<0.003	<0.003	0.00087 (J)	<0.003
8/27/2019	0.0072	<0.003		<0.003	<0.003	<0.003	<0.003	<0.003
8/29/2019			<0.003					
10/15/2019	0.012	<0.003	<0.003	0.00047 (J)	<0.003	<0.003	<0.003	<0.003
3/3/2020	0.0063	<0.003		<0.003	<0.003	<0.003	<0.003	<0.003
3/4/2020			<0.003					
8/18/2020	0.0067	<0.003	<0.003	0.00054 (J)	0.00042 (J)	<0.003	0.0016 (J)	<0.003
9/15/2020	0.01	<0.003	0.00033 (J)	<0.003	<0.003	<0.003	<0.003	<0.003
3/1/2021				<0.003				<0.003
3/2/2021	0.0095	<0.003	<0.003		<0.003	<0.003	<0.003	
9/21/2021	0.017	<0.003				<0.003	<0.003	
9/22/2021			<0.003	<0.003	<0.003			<0.003
2/1/2022	0.011	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
8/23/2022	0.0241	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
1/24/2023	0.0245	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
8/31/2023			<0.003	<0.003	<0.003	<0.003	<0.003	<0.003

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
9/6/2016				<0.003				
9/8/2016	<0.003	<0.003	<0.003		<0.003			
11/17/2016	<0.003							
11/18/2016		<0.003						
11/21/2016			<0.003	<0.003	<0.003			
2/21/2017	<0.003	<0.003						
2/22/2017			<0.003	<0.003	<0.003			
6/13/2017	<0.003	<0.003						
6/14/2017			0.0007 (J)	<0.003	<0.003			
9/27/2017	<0.003	<0.003	<0.003	<0.003	<0.003			
2/14/2018	<0.003	<0.003	<0.003	<0.003	<0.003			
3/6/2018						<0.003	<0.003	
3/15/2018								<0.003
5/1/2018						<0.003	<0.003 (D)	<0.003
6/26/2018	<0.003							
6/27/2018		<0.003	<0.003		<0.003		<0.003	
6/28/2018				<0.003		<0.003		<0.003
7/31/2018						<0.003		
8/1/2018							<0.003	<0.003
8/23/2018						<0.003	<0.003	
9/19/2018						<0.003	<0.003	
10/29/2018						<0.003	<0.003	<0.003
11/28/2018						<0.003	<0.003	<0.003
12/18/2018	<0.003		<0.003	<0.003				
12/19/2018					<0.003		<0.003	<0.003
12/20/2018		<0.003				0.0024 (J)		
1/16/2019								<0.003
8/27/2019	<0.003			<0.003	<0.003			
8/28/2019		<0.003	<0.003			0.00046 (J)	<0.003	
8/29/2019								0.00052 (J)
10/15/2019	<0.003							
10/16/2019			<0.003				<0.003	<0.003
12/3/2019						0.00088 (J)		
12/4/2019		<0.003		<0.003	<0.003			
3/4/2020	<0.003	<0.003	<0.003				<0.003	<0.003
3/5/2020				<0.003	0.0014 (J)	0.0016 (J)		
8/19/2020	<0.003	<0.003	<0.003	<0.003	<0.003			
8/20/2020						0.0031	<0.003	<0.003
9/15/2020	<0.003		<0.003					
9/16/2020		<0.003		<0.003	<0.003	0.0012 (J)	0.00035 (J)	
9/17/2020								0.00041 (J)
3/2/2021	<0.003					0.0014 (J)	<0.003	
3/3/2021		<0.003	<0.003	<0.003				
3/4/2021					<0.003			0.00092 (J)
9/23/2021						<0.003	<0.003	
9/27/2021								<0.003
9/28/2021	<0.003	<0.003	<0.003	<0.003	<0.003			
2/2/2022	<0.003			0.0013 (J)	<0.003	<0.003	<0.003	
2/3/2022			<0.003					<0.003
2/4/2022		<0.003						
8/23/2022	<0.003						<0.003	
8/24/2022			<0.003	<0.003				<0.003

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
8/25/2022		<0.003			<0.003	<0.003		
1/24/2023					<0.003			
1/25/2023		<0.003				<0.003		<0.003
1/26/2023	<0.003		<0.003	<0.003			<0.003	
8/31/2023				<0.003	<0.003			
9/6/2023	<0.003	<0.003	<0.003			<0.003	<0.003	
9/8/2023								<0.003

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

	BRGWC-52I	PZ-44	PZ-50D	PZ-51D	PZ-51I	PZ-58I	PZ-60I	PZ-61I
3/6/2018		<0.003						
5/1/2018		<0.003						
8/10/2018	<0.003							
8/23/2018	0.00085 (J)							
9/19/2018	<0.003							
10/29/2018	<0.003							
11/28/2018	<0.003							
12/20/2018	<0.003							
1/17/2019	<0.003							
1/19/2019					<0.003			
2/13/2019	<0.003							
8/29/2019	<0.003							
10/16/2019	<0.003							
10/18/2019					<0.003			
3/4/2020	0.00043 (J)							
8/20/2020	<0.003				0.0017 (J)			
9/17/2020	<0.003				<0.003			
3/3/2021				0.0013 (J)				
3/4/2021	0.00091 (J)				0.00079 (J)			
3/5/2021			0.00056 (J)					
9/27/2021					0.0012 (J)			<0.003
9/28/2021	<0.003	<0.003	<0.003	<0.003		<0.003	<0.003	
2/2/2022	<0.003	<0.003			<0.003			<0.003
2/3/2022			<0.003	<0.003		<0.003	<0.003	
8/24/2022				<0.003	<0.003	<0.003	<0.003	<0.003
8/25/2022	<0.003	<0.003	<0.003					
1/25/2023	<0.003	<0.003						
1/26/2023				<0.003	<0.003	<0.003	<0.003	<0.003
1/27/2023			<0.003					
8/31/2023								<0.003
9/6/2023	<0.003			<0.003				
9/8/2023		<0.003	<0.003		<0.003	<0.003	<0.003	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

	PZ-63I	PZ-64I	PZ-68D	PZ-74I	PZ-75I
2/4/2022	<0.003				
8/25/2022	<0.003				
10/12/2022		<0.003			
1/30/2023	<0.003	<0.003			
2/1/2023			0.00176 (J)		
9/6/2023				<0.003	<0.003
9/8/2023	<0.003	<0.003	<0.003		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWA-12I (bg)	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)
8/31/2016				<0.005	<0.005	<0.005	<0.005	
9/1/2016	<0.005	<0.005						<0.005
9/6/2016			<0.005					
11/15/2016							<0.005	<0.005
11/16/2016	<0.005	<0.005		<0.005	<0.005	<0.005		
11/17/2016			<0.005					
2/20/2017						<0.005	<0.005	<0.005
2/21/2017	<0.005	<0.005	<0.005	<0.005	<0.005			
6/12/2017				0.0007 (J)		0.0007 (J)	0.0006 (J)	<0.005
6/13/2017		<0.005	0.0008 (J)		<0.005			
6/14/2017	0.0009 (J)							
9/26/2017	0.0012 (J)	0.0006 (J)	0.0012 (J)	0.001 (J)	<0.005	0.0009 (J)	0.0007 (J)	0.0007 (J)
2/13/2018				<0.005	<0.005	<0.005	<0.005	<0.005
2/14/2018	<0.005	<0.005	0.0007 (J)					
6/26/2018	<0.005	<0.005	0.00062 (J)	0.00062 (J)	<0.005	<0.005	<0.005	<0.005
12/18/2018	<0.005	<0.005	<0.005	<0.005	<0.005 (X)	<0.005 (X)	<0.005 (X)	<0.005 (X)
8/27/2019	<0.005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005
8/29/2019			<0.005					
10/15/2019	0.00088 (J)	0.00046 (J)	0.00075 (J)	0.0008 (J)	0.00063 (J)	0.00058 (J)	0.00039 (J)	<0.005
3/3/2020	0.0023 (J)	0.0015 (J)		0.0027 (J)	0.00098 (J)	0.0024 (J)	0.0027 (J)	0.0018 (J)
3/4/2020			<0.005					
8/18/2020	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
9/15/2020	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
3/1/2021				<0.005				<0.005
3/2/2021	<0.005	<0.005	<0.005		<0.005	<0.005	<0.005	
9/21/2021	<0.005	<0.005				<0.005	<0.005	
9/22/2021			<0.005	<0.005	<0.005			<0.005
2/1/2022	0.0017 (J)	<0.005	0.0018 (J)	0.0012 (J)	<0.005	0.0013 (J)	0.0012 (J)	<0.005
8/23/2022	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1/24/2023	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0021 (J)
8/31/2023			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
9/6/2016				<0.005				
9/8/2016	<0.005	<0.005	<0.005		<0.005			
11/17/2016	<0.005							
11/18/2016		<0.005						
11/21/2016			0.0019 (J)	<0.005	<0.005			
2/21/2017	<0.005	<0.005						
2/22/2017			<0.005	<0.005	<0.005			
6/13/2017	0.0006 (J)	0.0009 (J)						
6/14/2017			0.002 (J)	<0.005	<0.005			
9/27/2017	<0.005	0.0007 (J)	0.0016 (J)	<0.005	<0.005			
2/14/2018	<0.005	<0.005	<0.005	<0.005	<0.005			
3/6/2018						<0.005 (X)	<0.005 (X)	
3/15/2018								0.0014 (J)
5/1/2018						0.0021 (J)	0.0018 (JD)	<0.005
6/26/2018	0.00072 (J)							
6/27/2018		<0.005	<0.005		<0.005		0.0016 (J)	
6/28/2018				<0.005 (X)		<0.005 (X)		<0.005
7/31/2018						<0.005		
8/1/2018							0.0028 (J)	0.00074 (J)
8/23/2018						0.00075 (J)	<0.005	
9/19/2018						<0.005	<0.005	
10/29/2018						<0.005	0.0012 (J)	<0.005
11/28/2018						0.00096 (J)	0.0019 (J)	<0.005
12/18/2018	0.00091 (J)		<0.005	<0.005				
12/19/2018					<0.005		0.00075 (J)	<0.005
12/20/2018		<0.005				<0.005		
1/16/2019								<0.005
8/27/2019	<0.005			<0.005	<0.005			
8/28/2019		0.0014 (J)	0.00051 (J)			0.00058 (J)	0.0018 (J)	
8/29/2019								<0.005
10/15/2019	0.00052 (J)							
10/16/2019			0.00065 (J)				<0.005	<0.005
12/3/2019						0.0007 (J)		
12/4/2019		0.0011 (J)		0.00056 (J)	0.00053 (J)			
3/4/2020	<0.005	<0.005	0.00044 (J)				0.00049 (J)	0.00046 (J)
3/5/2020				<0.005	<0.005	<0.005		
8/19/2020	<0.005	<0.005	<0.005	<0.005	<0.005			
8/20/2020						<0.005	0.00089 (J)	<0.005
9/15/2020	<0.005		<0.005					
9/16/2020		<0.005		<0.005	<0.005	<0.005	<0.005	
9/17/2020								<0.005
3/2/2021	<0.005					<0.005	<0.005	
3/3/2021		<0.005	0.0015 (J)	<0.005				
3/4/2021					<0.005			<0.005
9/23/2021						<0.005	0.002 (J)	
9/27/2021								<0.005
9/28/2021	<0.005	<0.005	<0.005	<0.005	<0.005			
2/2/2022	<0.005			<0.005	<0.005	<0.005	0.0056	
2/3/2022			<0.005					<0.005
2/4/2022		<0.005						
8/23/2022	<0.005						0.00228 (J)	
8/24/2022			<0.005	0.00283 (J)				0.0025 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
8/25/2022		<0.005			<0.005	<0.005		
1/24/2023					<0.005			
1/25/2023		<0.005				0.00225 (J)		0.00236 (J)
1/26/2023	<0.005		<0.005	0.00208 (J)			0.0024 (J)	
8/31/2023				<0.005	<0.005			
9/6/2023	<0.005	<0.005	<0.005			<0.005	0.0038 (J)	
9/8/2023								<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWC-52I	PZ-44	PZ-50D	PZ-51D	PZ-51I	PZ-58I	PZ-60I	PZ-61I
3/6/2018		<0.005 (X)						
5/1/2018		<0.005						
8/10/2018	<0.005							
8/23/2018	<0.005							
9/19/2018	0.0013 (J)							
10/29/2018	0.0038 (J)							
11/28/2018	0.0016 (J)							
12/20/2018	0.0032 (J)							
1/17/2019	0.0032 (J)							
1/19/2019					<0.005			
2/13/2019	<0.005							
8/29/2019	0.00067 (J)							
10/16/2019	0.0026 (J)							
10/18/2019					<0.005			
3/4/2020	0.0047 (J)							
8/20/2020	0.0031 (J)				<0.005			
9/17/2020	<0.005				<0.005			
3/3/2021				0.0014 (J)				
3/4/2021	0.003 (J)				<0.005			
3/5/2021			0.00087 (J)					
9/27/2021					<0.005			0.0023 (J)
9/28/2021	<0.005	<0.005	<0.005	<0.005		<0.005	<0.005	
2/2/2022	<0.005	0.004 (J)			<0.005			<0.005
2/3/2022			0.0012 (J)	0.0015 (J)		<0.005	<0.005	
8/24/2022				0.00308 (J)	0.00222 (J)	0.00245 (J)	0.00358 (J)	0.00295 (J)
8/25/2022	<0.005	<0.005	0.00235 (J)					
1/25/2023	<0.005	0.00221 (J)						
1/26/2023				0.00275 (J)	<0.005	<0.005	0.00204 (J)	0.00225 (J)
1/27/2023			0.00215 (J)					
8/31/2023								<0.005
9/6/2023	<0.005			0.00408 (J)				
9/8/2023		<0.005	0.003 (J)		<0.005	<0.005	<0.005	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D

Plant Branch Data: Plant Branch AP

	PZ-63I	PZ-64I	PZ-68D	PZ-74I	PZ-75I
2/4/2022	<0.005				
8/25/2022	<0.005				
10/12/2022		0.00896			
1/30/2023	<0.005	0.0103			
2/1/2023			0.0058		
9/6/2023				<0.005	<0.005
9/8/2023	<0.005	0.00459 (J)	0.00342 (J)		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Barium (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWA-12I (bg)	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)
8/31/2016				0.0239	0.0099 (J)	0.0273	0.0495	
9/1/2016	0.0454	0.0528						0.0142
9/6/2016			0.0624					
11/15/2016							0.0512	0.0126
11/16/2016	0.0623	0.0509		0.0147	0.0102	0.0365		
11/17/2016			0.109					
2/20/2017						0.0336	0.0586	0.0142
2/21/2017	0.0644	0.0531	0.095	0.0109	0.0094 (J)			
6/12/2017				0.0094 (J)		0.0322	0.0567	0.0134
6/13/2017		0.0543	0.0861		0.0094 (J)			
6/14/2017	0.0726							
9/26/2017	0.0765	0.0547	0.104	0.0156	0.0096 (J)	0.0364	0.0586	0.0133
2/13/2018				0.0134	0.0102	0.054	0.054	0.0145
2/14/2018	0.0786	0.0603	0.129					
6/26/2018	0.063	0.059	0.13	0.014	0.0093 (J)	0.032	0.063	0.014
12/18/2018	0.067	0.056	0.13	0.0076 (J)	0.01	0.038	0.045	0.013
8/27/2019	0.058	0.057		0.012	0.0095 (J)	0.028	0.056	0.013
8/29/2019			0.076					
10/15/2019	0.06	0.053	0.069	0.013	0.0091 (J)	0.032	0.049	0.013
3/3/2020	0.076	0.06		0.017	0.011	0.028	0.051	0.019
3/4/2020			0.087					
8/18/2020	0.053	0.058	0.067	0.01 (J)	0.01	0.022	0.04	0.014
9/15/2020	0.059	0.058	0.086	0.0083 (J)	0.0094 (J)	0.022	0.038	0.013
3/1/2021				0.0074				0.016
3/2/2021	0.053	0.063	0.097		0.0094	0.023	0.037	
9/21/2021	0.074	0.06				0.025	0.038	
9/22/2021			0.07	0.0075	0.0097			0.014
2/1/2022	0.057	0.064	0.08	0.0066	0.01	0.028	0.04	0.014
8/23/2022	0.0602	0.0607	0.0573	0.00954	0.012	0.0241	0.0379	0.014
1/24/2023	0.0512	0.0576	0.0468	0.00453	0.0118	0.0303	0.0394	0.0132
8/31/2023			0.0434	0.0068	0.0135	0.0245	0.0352	0.0143

Time Series

Constituent: Barium (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
9/6/2016				0.0206				
9/8/2016	0.0378	0.0184	0.0199		0.0593			
11/17/2016	0.0448							
11/18/2016		0.0173						
11/21/2016			0.0221 (J)	0.0237 (J)	0.0532 (BR)			
2/21/2017	0.0447	0.015						
2/22/2017			0.0179	0.0219	0.0498			
6/13/2017	0.0351	0.0143						
6/14/2017			0.0157	0.0197	0.0421			
9/27/2017	0.0383	0.017	0.0165	0.0213	0.0411			
2/14/2018	0.0327	0.0166	0.0163	0.0236	0.0417			
3/6/2018						0.1	0.0519	
3/15/2018								0.021
5/1/2018						0.084	0.057 (D)	0.024
6/26/2018	0.031							
6/27/2018		0.015	0.017		0.038		0.046	
6/28/2018				0.023		0.067		0.021
7/31/2018						0.087 (J+X)		
8/1/2018							0.043 (J+X)	0.02 (J+X)
8/23/2018						0.084	0.038	
9/19/2018						0.086	0.036	
10/29/2018						0.098 (J+X)	0.041 (J+X)	0.019 (J+X)
11/28/2018						0.11	0.039	0.02
12/18/2018	0.03		0.017	0.029				
12/19/2018					0.036		0.04	0.02
12/20/2018		0.015				0.093		
1/16/2019								0.02
8/27/2019	0.027			0.027	0.032			
8/28/2019		0.019	0.02			0.11	0.035	
8/29/2019								0.018
10/15/2019	0.027							
10/16/2019			0.019				0.032	0.017
12/3/2019						0.099		
12/4/2019		0.016		0.021	0.028			
3/4/2020	0.026	0.015	0.018				0.038	0.019
3/5/2020				0.025	0.026	0.078		
8/19/2020	0.027	0.016	0.019	0.026	0.025			
8/20/2020						0.083	0.035	0.019
9/15/2020	0.024		0.017					
9/16/2020		0.016		0.022	0.024	0.085	0.028	
9/17/2020								0.02
3/2/2021	0.026					0.061	0.036	
3/3/2021		0.016	0.021	0.028				
3/4/2021					0.024			0.025
9/23/2021						0.064	0.031	
9/27/2021								0.017
9/28/2021	0.023	0.013	0.017	0.035	0.02			
2/2/2022	0.023			0.031	0.023	0.063	0.028	
2/3/2022			0.016					0.016
2/4/2022		0.015						
8/23/2022	0.0259						0.0285	
8/24/2022			0.0175	0.0389				0.0166

Time Series

Constituent: Barium (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
8/25/2022		0.0161			0.0231	0.0574		
1/24/2023					0.0182			
1/25/2023		0.0166				0.0695		0.0165
1/26/2023	0.0293		0.018	0.0397			0.0311	
8/31/2023				0.04	0.0243			
9/6/2023	0.0271	0.0151	0.0174			0.0524	0.028	
9/8/2023								0.0166

Time Series

Constituent: Barium (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

	BRGWC-52I	PZ-44	PZ-50D	PZ-51D	PZ-51I	PZ-58I	PZ-60I	PZ-61I
3/6/2018		0.0461						
5/1/2018		0.052						
8/10/2018	0.038							
8/23/2018	0.03 (JX)							
9/19/2018	0.03							
10/29/2018	0.025 (J+X)							
11/28/2018	0.017							
12/20/2018	0.013							
1/17/2019	0.017							
1/19/2019					0.017			
2/13/2019	0.025							
8/29/2019	0.017							
10/16/2019	0.015							
10/18/2019					0.014			
3/4/2020	0.022							
8/20/2020	0.017				0.013			
9/17/2020	0.02				0.015			
3/3/2021				0.08				
3/4/2021	0.019				0.016			
3/5/2021			0.043					
9/27/2021					0.014			0.029
9/28/2021	0.013	0.049	0.034	0.057		0.017	0.022	
2/2/2022	0.013	0.052			0.015			0.015
2/3/2022			0.033	0.057		0.016	0.021	
8/24/2022				0.0584	0.0154	0.0181	0.0226	0.0133
8/25/2022	0.0179	0.056	0.0257					
1/25/2023	0.0249	0.0498						
1/26/2023				0.0481	0.0152	0.0167	0.0218	0.0125
1/27/2023			0.0315					
8/31/2023								0.0127
9/6/2023	0.0415			0.0448				
9/8/2023		0.0555	0.0312		0.0149	0.0173	0.0232	

Time Series

Constituent: Barium (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D

Plant Branch Data: Plant Branch AP

	PZ-63I	PZ-64I	PZ-68D	PZ-74I	PZ-75I
2/4/2022	0.037				
8/25/2022	0.023				
10/12/2022		0.0543			
1/30/2023	0.022	0.0254			
2/1/2023			0.145		
9/6/2023				0.0346	0.0513
9/8/2023	0.0221	0.0177	0.107		

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWA-12I (bg)	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)
8/31/2016				<0.0005	<0.0005	<0.0005	<0.0005	
9/1/2016	<0.0005	<0.0005						<0.0005
9/6/2016			<0.0005					
11/15/2016							<0.0005	<0.0005
11/16/2016	<0.0005	<0.0005		<0.0005	<0.0005	<0.0005		
11/17/2016			<0.0005					
2/20/2017						<0.0005	<0.0005	<0.0005
2/21/2017	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005			
6/12/2017				<0.0005		<0.0005	<0.0005	<0.0005
6/13/2017		<0.0005	<0.0005		<0.0005			
6/14/2017	<0.0005							
9/26/2017	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
2/13/2018				<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
2/14/2018	<0.0005	<0.0005	<0.0005					
6/26/2018	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
12/18/2018	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
8/27/2019	<0.0005	<0.0005		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
8/29/2019			<0.0005					
10/15/2019	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
3/3/2020	<0.0005	<0.0005		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
3/4/2020			<0.0005					
8/18/2020	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
9/15/2020	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
3/1/2021				<0.0005				<0.0005
3/2/2021	<0.0005	<0.0005	<0.0005		<0.0005	<0.0005	<0.0005	
9/21/2021	<0.0005	<0.0005				<0.0005	<0.0005	
9/22/2021			<0.0005	<0.0005	<0.0005			<0.0005
2/1/2022	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
8/23/2022	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
1/24/2023	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
8/31/2023			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
9/6/2016				<0.0005				
9/8/2016	<0.0005	0.0002 (J)	0.0011 (J)		<0.0005			
11/17/2016	<0.0005							
11/18/2016		0.0002 (J)						
11/21/2016			0.0012 (J)	<0.0005	<0.0005			
2/21/2017	<0.0005	0.0002 (J)						
2/22/2017			0.0014 (J)	<0.0005	<0.0005			
6/13/2017	<0.0005	0.0002 (J)						
6/14/2017			0.0012 (J)	<0.0005	<0.0005			
9/27/2017	<0.0005	0.0001 (J)	0.001 (J)	<0.0005	<0.0005			
2/14/2018	<0.0005	<0.0005	<0.003	<0.0005	<0.0005			
3/6/2018						<0.0005	<0.0005	
3/15/2018								<0.003
5/1/2018						<0.0005	<0.0005 (D)	<0.003
6/26/2018	<0.0005							
6/27/2018		0.00014 (J)	0.0008 (J)		<0.0005		<0.0005	
6/28/2018				<0.0005		<0.0005		0.003 (J)
7/31/2018						<0.0005		
8/1/2018							<0.0005	0.0025 (J)
8/23/2018						7.9E-05 (J)	5.5E-05 (J)	
9/19/2018						<0.0005	<0.0005	
10/29/2018						<0.0005	<0.0005	0.0042
11/28/2018						<0.0005	5.6E-05 (J)	0.0029 (J)
12/18/2018	<0.0005		0.00071 (J)	<0.0005				
12/19/2018					<0.0005		<0.0005 (X)	0.0043
12/20/2018		<0.0005 (X)				<0.0005		
1/16/2019								0.0038
8/27/2019	<0.0005			<0.0005	<0.0005			
8/28/2019		0.00012 (J)	0.0008 (J)			<0.0005	<0.0005	
8/29/2019								0.0029 (J)
10/15/2019	<0.0005							
10/16/2019			0.00072 (J)				<0.0005	0.0027 (J)
10/17/2019		<0.0005		<0.0005	<0.0005	<0.0005		
12/3/2019						<0.0005		
12/4/2019		0.00012 (J)		<0.0005	<0.0005			
3/4/2020	<0.0005	0.00012 (J)	0.00073 (J)				<0.0005	0.0052
3/5/2020				<0.0005	<0.0005	<0.0005		
8/19/2020	<0.0005	9.9E-05 (J)	0.00074 (J)	<0.0005	<0.0005			
8/20/2020						4.6E-05 (J)	4.7E-05 (J)	0.0044
9/15/2020	<0.0005		0.00071 (J)					
9/16/2020		0.00011 (J)		<0.0005	<0.0005	<0.0005	<0.0005	
9/17/2020								0.0065
3/2/2021	<0.0005					<0.0005	<0.0005	
3/3/2021		7.1E-05 (J)	0.00094	<0.0005				
3/4/2021					<0.0005			0.0059
9/23/2021						<0.0005	<0.0005	
9/27/2021								0.006
9/28/2021	<0.0005	<0.0005	0.00079	<0.0005	<0.0005			
2/2/2022	<0.0005			<0.0005	<0.0005	<0.0005	<0.0005	
2/3/2022			0.00083					0.0071
2/4/2022		5.4E-05 (J)						
8/23/2022	<0.0005						<0.0005	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
8/24/2022			0.000845	<0.0005				0.00831
8/25/2022		<0.0005			<0.0005	<0.0005		
1/24/2023					<0.0005			
1/25/2023		<0.0005				<0.0005		0.00962
1/26/2023	<0.0005		0.00109	<0.0005			<0.0005	
8/31/2023				<0.0005	<0.0005			
9/6/2023	<0.0005	<0.0005	0.00113			<0.0005	<0.0005	
9/8/2023								0.00867

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

	BRGWC-52I	PZ-44	PZ-50D	PZ-51D	PZ-51I	PZ-58I	PZ-60I	PZ-61I
3/6/2018		<0.0005						
5/1/2018		<0.0005						
8/10/2018	<0.0005							
8/23/2018	<0.0005							
9/19/2018	<0.0005							
10/29/2018	<0.0005							
11/28/2018	<0.0005							
12/20/2018	<0.0005							
1/17/2019	<0.0005							
1/19/2019					6.4E-05 (J)			
2/13/2019	<0.0005							
8/29/2019	<0.0005							
10/16/2019	<0.0005							
10/18/2019					<0.0005			
3/4/2020	<0.0005							
8/20/2020	<0.0005				7.7E-05 (J)			
9/17/2020	<0.0005				9.6E-05 (J)			
3/3/2021				<0.0005				
3/4/2021	<0.0005				9.7E-05 (J)			
3/5/2021			<0.0025					
9/27/2021					7.1E-05 (J)			0.0017
9/28/2021	<0.0005	<0.0005	5.9E-05 (J)	<0.0005		0.025	0.065	
2/2/2022	<0.0005	<0.0005			7.1E-05 (J)			0.0015
2/3/2022			<0.0025	<0.0005		0.027	0.072	
8/24/2022				<0.0005	<0.0005	0.0335	0.0703	0.00198
8/25/2022	<0.0005	<0.0005	0.000269 (J)					
1/25/2023	<0.0005	<0.0005						
1/26/2023				<0.0005	<0.0005	0.0377	0.0782	0.00164
1/27/2023			<0.0025					
8/31/2023								0.00145
9/6/2023	<0.0005			<0.0005				
9/8/2023		<0.0005	<0.0025		<0.0005	0.0328	0.067	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

	PZ-63I	PZ-64I	PZ-68D	PZ-74I	PZ-75I
2/4/2022	<0.005				
8/25/2022	<0.005				
10/12/2022		0.0006			
1/30/2023	<0.005	0.00116			
2/1/2023			<0.0005		
9/6/2023				<0.0005	<0.0005
9/8/2023	<0.005	0.00248	<0.0005		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWA-12I (bg)	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)
8/31/2016				0.0072 (J)	<0.015	<0.015	<0.015	
9/1/2016	0.0093 (J)	<0.015						<0.015
9/6/2016			0.0362 (J)					
11/15/2016							0.0085 (J)	0.0123 (J)
11/16/2016	0.0127 (J)	0.0081 (J)		0.0117 (J)	0.0109 (J)	0.0187 (J)		
11/17/2016			0.0617					
2/20/2017						0.0066 (J)	0.0093 (J)	0.0157 (J)
2/21/2017	0.0071 (J)	<0.015	0.0245 (J)	0.0088 (J)	<0.015			
6/12/2017				0.0133 (J)		<0.015	<0.015	<0.015
6/13/2017		<0.015	<0.04		<0.015			
6/14/2017	0.0078 (J)							
9/26/2017	<0.04	<0.015	<0.04	0.0093 (J)	<0.015	<0.015	<0.015	<0.015
2/13/2018				0.0141 (J)	<0.015	<0.015	<0.015	<0.015
2/14/2018	0.0068 (J)	<0.015	0.0314 (J)					
6/26/2018	0.008 (J)	<0.015	0.062	0.012 (J)	<0.015	0.0042 (J)	0.0056 (J)	0.0041 (J)
12/18/2018	0.0083 (J)	0.0053 (J)	0.055	0.0086 (J)	<0.015	<0.015	0.0062 (J)	<0.015
3/19/2019	0.008 (J)	<0.015	0.068	0.00565 (JD)	<0.015	<0.015	<0.015	<0.015
10/15/2019	0.006 (J)	<0.015	0.022 (J)	0.0067 (J)	<0.015	<0.015	0.006 (J)	0.01 (J)
3/3/2020	0.01 (J)	0.0065 (J)		0.0082 (J)	<0.015	<0.015	<0.015	<0.015
3/4/2020			0.044 (J)					
9/15/2020	0.0071 (J)	<0.015	0.033 (J)	<0.015	<0.015	<0.015	<0.015	<0.015
3/1/2021				<0.015				<0.015
3/2/2021	0.0057 (J)	<0.015	0.042		<0.015	0.0053 (J)	0.0071 (J)	
9/21/2021	<0.04	<0.015				<0.015	<0.015	
9/22/2021			0.047	<0.015	<0.015			<0.015
2/1/2022	<0.04	<0.015	0.046	<0.015	<0.015	<0.015	<0.015	<0.015
8/23/2022	0.00653 (J)	<0.015	0.0498	0.00592 (J)	0.00532 (J)	<0.015	0.00538 (J)	<0.015
1/24/2023	0.00884 (J)	0.0053 (J)	0.0437	<0.015	<0.015	<0.015	<0.015	<0.015
8/31/2023			0.039	0.00649 (J)	0.00738 (J)	0.0073 (J)	0.00764 (J)	0.00611 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
9/6/2016				1.96				
9/8/2016	1.03	1.63	1.35		1.28			
11/17/2016	1.7							
11/18/2016		1.91						
11/21/2016			1.74	1.68	1.19			
2/21/2017	1.55	1.39						
2/22/2017			1.5	1.48	1.43			
6/13/2017	1.77	1.62						
6/14/2017			1.6	1.71	1.57			
9/27/2017	1.75	1.16	1.83	1.61	1.51			
2/14/2018	1.47	1.17	1.8	1.47	1.6			
3/6/2018						0.0198 (J)	0.428	
3/15/2018								0.32
5/1/2018						0.015 (J)	0.435 (D)	0.32
6/26/2018	1.8							
6/27/2018		1.4 (J+X)	1.8 (J+X)		1.5 (J+X)		0.49 (J+X)	
6/28/2018				1.4		<0.04 (X)		0.34
7/31/2018						0.035 (J)		
8/1/2018							0.39	0.28
8/23/2018						0.022 (J)	0.39	
9/19/2018						0.021 (J)	0.43	
10/29/2018						0.021 (J)	0.4	0.3
11/28/2018						<0.04 (X)	0.51	0.35
12/18/2018	1.5		1.5	1.6				
12/19/2018					1.6		0.41	0.35
12/20/2018		1.4				0.028 (J)		
1/16/2019								0.37
3/19/2019		1.1					0.41	
3/20/2019	1.5 (D)		1.5	1.7	1.4	0.043		0.34
10/15/2019	1.2							
10/16/2019			1.2				0.36	0.31
10/17/2019		0.97		1.7	1.5	0.064		
12/3/2019						0.027 (J)		
12/4/2019		0.89		1.6	1.6			
3/4/2020	1.2	0.81	1.1				0.49	0.32
3/5/2020				1.5	1.5	0.044 (J)		
9/15/2020	1.2		1.1					
9/16/2020		1.2		1.7	1.4	0.028 (J)	0.47	
9/17/2020								0.36
3/2/2021	1.1					0.044	0.58	
3/3/2021		0.91	1	1.4				
3/4/2021					1.1			0.31
9/23/2021						0.029 (J)	0.47	
9/27/2021								0.32
9/28/2021	1.1	0.95	0.9	1.7	0.91			
2/2/2022	1.1			1.9	1	0.034 (J)	0.48	
2/3/2022			0.93					0.31
2/4/2022		1						
8/23/2022	1.38						0.547	
8/24/2022			1.13	2.15				0.406
8/25/2022		1.03			1.07	0.0458		
1/24/2023					1.11			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
1/25/2023		1.14				0.0355		0.383
1/26/2023	1.45		1.07	2.17			0.661	
9/1/2023				2.05	1.13			
9/6/2023	1.95	1.25	1.34			0.0444	0.689	
9/8/2023								0.372

Time Series

Constituent: Boron (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

	BRGWC-52I	PZ-44	PZ-50D	PZ-51D	PZ-51I	PZ-58I	PZ-60I	PZ-61I
3/6/2018		2.12						
5/1/2018		1.5						
8/3/2018					0.3			
8/10/2018	1.3							
8/23/2018	1.4							
9/19/2018	1.7							
10/29/2018	1.3							
11/28/2018	1.5							
12/20/2018	1.6							
1/17/2019	1.5							
1/19/2019					0.39			
2/13/2019	1.7							
3/20/2019	1.6 (D)							
10/16/2019	1.3							
10/18/2019					0.38			
3/4/2020	1.4							
9/17/2020	1.9				0.43			
10/27/2020			0.15	0.029 (J)	0.37			
3/3/2021				0.028 (J)				
3/4/2021	1.4				0.36			
3/5/2021			0.2					
9/27/2021					0.39			0.26
9/28/2021	1.4	1.3	0.24	0.023 (J)		0.36	0.23	
2/2/2022	1.5	1.6			0.42			0.32
2/3/2022			0.22	0.034 (J)		0.38	0.25	
8/24/2022				0.036	0.459	0.464	0.293	0.277
8/25/2022	1.56	1.59	0.278					
1/25/2023	1.79	1.47						
1/26/2023				0.0397	0.445	0.44	0.288	0.353
1/27/2023			0.277					
9/1/2023								0.331
9/6/2023	1.87			0.0387				
9/8/2023		1.35	0.285		0.43	0.429	0.3	

Time Series

Constituent: Boron (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

	PZ-63I	PZ-64I	PZ-68D	PZ-74I	PZ-75I
2/4/2022	0.67				
8/25/2022	0.672				
10/12/2022		0.0152			
1/30/2023	0.82	0.015			
2/1/2023			0.255		
9/6/2023				1.47	1.51
9/8/2023	0.706	0.00834 (J)	0.318		

Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWA-12I (bg)	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)
8/31/2016				<0.001	<0.001	<0.001	<0.001	
9/1/2016	<0.001	<0.001						<0.001
9/6/2016			<0.001					
11/15/2016							<0.001	<0.001
11/16/2016	<0.001	<0.001		<0.001	<0.001	<0.001		
11/17/2016			<0.001					
2/20/2017						<0.001	<0.001	<0.001
2/21/2017	<0.001	<0.001	<0.001	<0.001	<0.001			
6/12/2017				<0.001		<0.001	<0.001	<0.001
6/13/2017		<0.001	<0.001		<0.001			
6/14/2017	<0.001							
9/26/2017	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2/13/2018				<0.001	<0.001	<0.001	<0.001	<0.001
2/14/2018	<0.001	<0.001	<0.001					
6/26/2018	<0.001	<0.001	0.00015 (J)	<0.001	<0.001	<0.001	<0.001	<0.001
7/31/2018	<0.001	<0.001						
12/18/2018	<0.001	<0.001	0.0001 (J)	<0.001	<0.001	<0.001	<0.001	<0.001
8/27/2019	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001
8/29/2019			<0.001					
10/15/2019	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
3/3/2020	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001
3/4/2020			<0.001					
8/18/2020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
9/15/2020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
3/1/2021				<0.001				<0.001
3/2/2021	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	
9/21/2021	<0.001	<0.001				<0.001	<0.001	
9/22/2021			<0.001	<0.001	<0.001			<0.001
2/1/2022	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
8/23/2022	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1/24/2023	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
8/31/2023			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
9/6/2016				<0.001				
9/8/2016	<0.001	7E-05 (J)	<0.001		<0.001			
11/17/2016	<0.001							
11/18/2016		9E-05 (J)						
11/21/2016			<0.001	8E-05 (J)	8E-05 (J)			
2/21/2017	<0.001	<0.001						
2/22/2017			<0.001	<0.001	0.0001 (J)			
6/13/2017	<0.001	<0.001						
6/14/2017			<0.001	<0.001	<0.001			
9/27/2017	<0.001	<0.001	<0.001	<0.001	<0.001			
2/14/2018	<0.001	<0.001	<0.001	<0.001	<0.001			
3/6/2018						<0.001	<0.001	
3/15/2018								0.038
5/1/2018						<0.001	<0.001 (D)	0.011
6/26/2018	<0.001							
6/27/2018		<0.001	<0.001		0.00011 (J)		0.00014 (J)	
6/28/2018				<0.001		<0.001		0.087
7/31/2018						<0.001		
8/1/2018							0.00011 (J)	0.042
8/23/2018						<0.001	0.00018 (J)	
9/19/2018						<0.001	0.00015 (J)	
10/29/2018						9.8E-05 (J)	0.00019 (J)	0.083
11/28/2018						<0.001	0.00022 (J)	0.031
12/18/2018	<0.001		<0.001	<0.001				
12/19/2018					<0.001 (X)		<0.001	0.042
12/20/2018		<0.001				<0.001 (X)		
1/16/2019								0.028
8/27/2019	<0.001			<0.001	<0.001			
8/28/2019		<0.001	<0.001			<0.001	0.00017 (J)	
8/29/2019								0.0071
10/15/2019	<0.001							
10/16/2019			<0.001				0.00018 (J)	0.014
10/17/2019		<0.001		<0.001	<0.001	<0.001		
12/3/2019						0.00011 (J)		
12/4/2019		<0.001		<0.001	<0.001			
3/4/2020	<0.001	<0.001	<0.001				0.00024 (J)	0.013
3/5/2020				<0.001	<0.001	<0.001		
8/19/2020	<0.001	<0.001	<0.001	<0.001	<0.001			
8/20/2020						0.00014 (J)	<0.001	0.0079
9/15/2020	<0.001		<0.001					
9/16/2020		<0.001		<0.001	<0.001	<0.001	<0.001	
9/17/2020								0.021
3/2/2021	<0.001					0.0002 (J)	<0.001	
3/3/2021		<0.001	<0.001	<0.001				
3/4/2021					<0.001			0.019
9/23/2021						<0.001	<0.001	
9/27/2021								0.0095
9/28/2021	<0.001	<0.001	<0.001	<0.001	<0.001			
2/2/2022	<0.001			0.00014 (J)	<0.001	<0.001	0.00015 (J)	
2/3/2022			<0.001					0.0085
2/4/2022		<0.001						
8/23/2022	<0.001						<0.001	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
8/24/2022			<0.001	<0.001				0.00818
8/25/2022		<0.001			<0.001	<0.001		
1/24/2023					<0.001			
1/25/2023		<0.001				<0.001		0.00726
1/26/2023	<0.001		<0.001	<0.001			<0.001	
8/31/2023				<0.001	<0.001			
9/6/2023	<0.001	<0.001	<0.001			<0.001	<0.001	
9/8/2023								0.00744

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWC-52I	PZ-44	PZ-50D	PZ-51D	PZ-51I	PZ-58I	PZ-60I	PZ-61I
3/6/2018		<0.001						
5/1/2018		<0.001						
8/3/2018					0.0015			
8/10/2018	<0.001							
8/23/2018	<0.001							
9/19/2018	<0.001							
10/29/2018	<0.001							
11/28/2018	<0.001							
12/20/2018	<0.001							
1/17/2019	<0.001							
1/19/2019					0.0016			
2/13/2019	<0.001							
8/29/2019	<0.001							
10/16/2019	<0.001							
10/18/2019					0.00083 (J)			
3/4/2020	<0.001							
8/20/2020	<0.001				0.0019 (J)			
9/17/2020	<0.001				0.033			
10/27/2020			<0.001	<0.001	0.0051			
3/3/2021				<0.001				
3/4/2021	<0.001				0.017			
3/5/2021			<0.001					
9/27/2021					0.0031			0.00081
9/28/2021	<0.001	<0.001	<0.001	<0.001		0.0042	0.016	
2/2/2022	<0.001	<0.001			0.0043			0.00014 (J)
2/3/2022			<0.001	<0.001		0.0038	0.016	
8/24/2022				<0.001	0.00478	0.0046	0.017	0.000859 (J)
8/25/2022	<0.001	<0.001	<0.001					
1/25/2023	<0.001	<0.001						
1/26/2023				<0.001	0.00101	0.00435	0.0152	0.000517 (J)
1/27/2023			<0.001					
8/31/2023								0.000496 (J)
9/6/2023	<0.001			<0.001				
9/8/2023		<0.001	<0.001		0.000679 (J)	0.00453	0.0149	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

	PZ-63I	PZ-64I	PZ-68D	PZ-74I	PZ-75I
2/4/2022	<0.001				
8/25/2022	<0.001				
10/12/2022		<0.001			
1/30/2023	<0.001	0.00126			
2/1/2023			<0.001		
9/6/2023				<0.001	<0.001
9/8/2023	<0.001	<0.001	<0.001		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Calcium (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

	BRGWA-12I (bg)	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)
8/31/2016				12.6	4.09	13.5	19.6	
9/1/2016	8.98	4.61						3.3
9/6/2016			12.8					
11/15/2016							21.7	3.44
11/16/2016	15.4	4.17		12.1	4.25	14.9		
11/17/2016			19.2					
2/20/2017						13.9	21.1	3.52
2/21/2017	17.4	5	15.1	11.4	4.02			
6/12/2017				9.34		13.7	21.5	3.11
6/13/2017		4.98	10.2		3.84			
6/14/2017	18.1							
9/26/2017	19.3	4.49	15	14.3	3.31	14.4	24	3.15
2/13/2018				<25	3.94	<25	<25	3.65
2/14/2018	<25	<25	<25					
6/26/2018	15.5 (J)	6.4	18.5 (J)	16 (J)	3.6	13.5 (J)	23.5 (J)	3.3
7/31/2018	18.2 (J)	6.1						
12/18/2018	18.7 (J)	5.5	16.8 (J)	14.5 (J)	3.8	16.4 (J)	19.8 (J)	3.5
3/19/2019	15.9 (J)	5.9	13.5 (J)	14.3 (JD)	3.9	12.3 (J)	21.4 (J)	3.6
10/15/2019	15.9	6.2	8.6	15.1	3.7	14.4	20	3.5
3/3/2020	19.4	6.8		20	4	14.9	23.2	5
3/4/2020			11.5					
9/15/2020	14.5	5.7	10.7	14.1	3.9	12.7	16.8	3.7
3/1/2021				15.4				4.2
3/2/2021	11.7	5.4	11.6		4	13.2	16.8	
9/21/2021	16.4	5.4				14.1	19.1	
9/22/2021			9.2	15.9	4.3			4.1
2/1/2022	14.2	5.3	10.7	14.4	4.4	14.5	19.1	4.2
8/23/2022	15.8	6.09	8.09	13.9	4.65	14.3	18.2	3.97
1/24/2023	13.7	5.62	6.97	14.2	4.86	15.8	19.4	3.9
8/31/2023			5.95	12.6	5.02	14.3	14.9	3.79

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Calcium (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
9/6/2016				63.3				
9/8/2016	59.4	87.2	93.9		60.5			
11/17/2016	78.4							
11/18/2016		82.4						
11/21/2016			99.1	60.7	31.1			
2/21/2017	80.9	75.1						
2/22/2017			105	62.1	67.3			
6/13/2017	62	61						
6/14/2017			91.3	63.5	60.2			
9/27/2017	65.8	72.6	84	63.5	68.4			
2/14/2018	58.8	74.1	72.1	62.8	70.2			
3/6/2018						39.5	326	
3/15/2018								233
5/1/2018						45.5	302 (D)	225
6/26/2018	55.5							
6/27/2018		68.2	61.1		67.1		340	
6/28/2018				73.3		41.9		242
7/31/2018						41.5		
8/1/2018							358	246
8/23/2018						42.3	323	
9/19/2018						41.9	321	
10/29/2018						40.8	326	236
11/28/2018						45.1	354	254
12/18/2018	54.7		52.9	102				
12/19/2018					61.2		330	252
12/20/2018		63.9				39		
1/16/2019								248
3/19/2019		60.2					335	
3/20/2019	53.95 (D)		55.4	141	52.8	31.2		222
10/15/2019	48.3							
10/16/2019			54				338	241
12/3/2019						43.7		
12/4/2019		76.8		92.6	52.7			
3/4/2020	52	72.3	59.3				353	245
3/5/2020				119	52.1	37.9		
9/15/2020	40.1		55.1					
9/16/2020		62.5		106	43.1	39.7	309	
9/17/2020								206
3/2/2021	44.1					33.9	353	
3/3/2021		58.2	73.3	122				
3/4/2021					35.7			214
9/23/2021						32	336	
9/27/2021								196
9/28/2021	38.4	50.4	59.5	212	33.9			
2/2/2022	44.3			232	44.2	33.8	320	
2/3/2022			58.7					220
2/4/2022		61.7						
8/23/2022	51.5						323	
8/24/2022			61	316				215
8/25/2022		64			48.5	33.5		
1/24/2023					46.6			
1/25/2023		55.7				34.3		216

Time Series

Constituent: Calcium (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
1/26/2023	57.6		68	361			331	
8/31/2023					45.1			
9/1/2023				414				
9/6/2023	69.6	74.4	71.4			34	347	
9/8/2023								214

Time Series

Constituent: Calcium (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

	BRGWC-52I	PZ-44	PZ-50D	PZ-51D	PZ-51I	PZ-58I	PZ-60I	PZ-61I
3/6/2018		<25						
5/1/2018		<25						
8/10/2018	410 (O)							
8/23/2018	33.9							
9/19/2018	42.3							
10/29/2018	39.8							
11/28/2018	38.2							
12/20/2018	43.2							
1/17/2019	39.4							
1/19/2019					196			
2/13/2019	36.9							
3/20/2019	40.85 (D)							
10/16/2019	48.4							
10/18/2019					177			
3/4/2020	49.5							
9/17/2020	35.4				168			
10/27/2020			159	132	183			
3/3/2021				119				
3/4/2021	47.5				182			
3/5/2021			207					
9/27/2021					187			230
9/28/2021	39.5	24.2	225	113		108	274	
2/2/2022	40.1	25.1			187			215
2/3/2022			222	122		120	279	
8/24/2022				118	197	146	281	214
8/25/2022	38.3	27.2	210					
1/25/2023	36.3	25.1						
1/26/2023				119	198	151	284	214
1/27/2023			214					
9/1/2023								209
9/6/2023	37.4			120				
9/8/2023		26.5	211		217	162	294	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Calcium (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

	PZ-63I	PZ-64I	PZ-68D	PZ-74I	PZ-75I
2/4/2022	42.2				
8/25/2022	45.1				
10/12/2022		320			
1/30/2023	49.8	372			
2/1/2023			86.1		
9/6/2023				69.2	47
9/8/2023	56.8	363	86.4		

Time Series

Constituent: Chloride (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

	BRGWA-12I (bg)	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)
8/31/2016				2.3	2	4.4	3.6	
9/1/2016	3.3	3.5						2.5
9/6/2016			5.8					
11/15/2016							4	2.3
11/16/2016	3.6	3.6		2	1.8	4.4		
11/17/2016			4.3					
2/20/2017						4.8	3.9	2.4
2/21/2017	3.2	3.2	3.5	2	1.8			
6/12/2017				2.1		4.2	3.8	2.2
6/13/2017		3.3	3.2		1.7			
6/14/2017	3.1							
9/26/2017	3.3	3.3	3.5	2	1.8	4.4	4.1	2.3
2/13/2018				2.1	1.7	4.7	4.1	2.3
2/14/2018	3.1	3.5	3.8					
6/26/2018	3.4	3.4	3.8	2.4	2.2	4.5	4.1	2.6
7/31/2018	2.6	2.9						
12/18/2018	2.8	2.9	3.9	1.8	1.9	4.5	3.8	2.3
3/19/2019	3.2	3.5	3.8	2.45 (D)	2	4.5	4.2	2.6
10/15/2019	3.1	3.4	3.5	2.2	1.9	4.2	3.7	2.4
3/3/2020	2.6	3.2		1.9	1.9	3.9	3.6	2.9
3/4/2020			3.3					
9/15/2020	2.4	3.5	3.1	1.9	1.7	3.7	3.7	2.3
3/1/2021				1.8				2.1
3/2/2021	2.6	3.7	3.5		1.7	3.8	3.7	
9/21/2021	2.1	3.5				3.2	3.2	
9/22/2021			2.8	1.7	1.5			2.1
2/1/2022	2.2	3.6	3.2	1.8	1.6	3.5	3.4	2.1
8/23/2022	2.5	5.46	3.16	2.02	2.18	3.64	3.59	2.39
1/24/2023	2.49	3.79	2.88	2.09	2.16	3.93	3.56	2.3
8/23/2023			2.41	1.9	2.14	3.53	3.37	2.34

Time Series

Constituent: Chloride (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
9/6/2016				6.7				
9/8/2016	5.5	6	6.4		6.8			
11/17/2016	7.7							
11/18/2016		6.3						
11/21/2016			6.9	6.5	7.8			
2/21/2017	7.3	5.1						
2/22/2017			6.2	5.6	7			
6/13/2017	7.5	4.7						
6/14/2017			7.2	5.7	7.1			
9/27/2017	7.9	4.9	8.7	6	7.2			
2/14/2018	6.7	5.6	7.2	5.9	7.4			
3/6/2018						56.6	8.4	
3/15/2018								23.3
5/1/2018						58.5	5.7 (JXD)	23.4
6/26/2018	6.7							
6/27/2018		5.9	6.3		7.1		4.4	
6/28/2018				7 (J-X)		50.2 (J-X)		24 (J-X)
7/31/2018						59		
8/1/2018							5.2	25.7
8/23/2018						54	3.6	
9/19/2018						58.4	4.1	
10/29/2018						62.6	4.3	24.9
11/28/2018						58.1	5.1	24
12/18/2018	6.2		5.4	5.8				
12/19/2018					7 (J-X)		4.5 (J-X)	23.3 (J-X)
12/20/2018		5.6 (J-X)				47.2 (J-X)		
1/16/2019								24.1
3/19/2019		5.8					4.7	
3/20/2019	6.3 (D)		5.6	5.8	7.3	27.7		23.5
10/15/2019	5							
10/16/2019			6.9				4.6	21.9
12/3/2019						52.8		
12/4/2019		5.6		5	6.6			
3/4/2020	5	5.1	5.8				4.2	21.6
3/5/2020				4.3	6	37.1		
9/15/2020	4.9		5.5					
9/16/2020		5.4		4.4	5.6	54.9	4.1	
9/17/2020								20.1
3/2/2021	4.5					25.8	4.8	
3/3/2021		4.5	5.6	4				
3/4/2021					4.6			18.9
9/23/2021						29.3	4.3	
9/27/2021								16.2
9/28/2021	4.2	3.7	5.4	3.4	3.6			
2/2/2022	4.2			4	3.8	23.4	4.2	
2/3/2022			6.1					17.4
2/4/2022		4.6						
8/23/2022	5.38						4.49	
8/24/2022			5.84	4.91				15.8
8/25/2022		4.65			3.96	14.9		
1/24/2023					4.49			
1/25/2023		3.81				27.4		14.7

Time Series

Constituent: Chloride (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
1/26/2023	6.96		5.59	3.82			4.96	
8/23/2023				3.35	4.3			
8/25/2023	8.47	4.81	6.08				4.67	14.8
8/26/2023						16.5		

Time Series

Constituent: Chloride (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

	BRGWC-52I	PZ-44	PZ-50D	PZ-51D	PZ-51I	PZ-58I	PZ-60I	PZ-61I
3/6/2018		6						
5/1/2018		6						
8/10/2018	6.9							
8/23/2018	7.5							
9/19/2018	6.6							
10/29/2018	7.8							
11/28/2018	7.2							
12/20/2018	6.6 (J-X)							
1/17/2019	6.4							
1/19/2019					11.6			
2/13/2019	6.5							
3/20/2019	6.7 (D)							
10/16/2019	7							
10/18/2019					10.9			
3/4/2020	6.1							
9/17/2020	6.3				10.5			
10/27/2020			5.6	6.3	11			
3/3/2021				18.9				
3/4/2021	5.6				12.2			
3/5/2021			8					
9/27/2021					9.4			20
9/28/2021	5.5	5	13	12.8		9.6	27.2	
2/2/2022	6.1	5.5			9.7			19.2
2/3/2022			12.5	15.2		11.9	30.7	
8/24/2022				17.5	9.64	10.7	26.7	19.2
8/25/2022	6.27	6.28	26.2					
1/25/2023	6.35	5.84						
1/26/2023				21.8	9.5	12.1	28.3	17
1/27/2023			11.5					
8/24/2023		6.83			9.43			
8/25/2023	6.28		10.1	22.2		11	25	15.7

Time Series

Constituent: Chloride (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

	PZ-63I	PZ-64I	PZ-68D	PZ-74I	PZ-75I
2/4/2022	6.2				
8/25/2022	6.15				
10/12/2022		55.3			
1/30/2023	7.18	40.7			
2/1/2023			12.7		
8/24/2023	6.81				
8/25/2023		36.5	23		6.84
8/26/2023				14.8	

Time Series

Constituent: Chromium (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWA-12I (bg)	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)
8/31/2016				0.001 (J)	0.0034 (J)	0.0058 (J)	0.0028 (J)	
9/1/2016	0.0009 (J)	0.0013 (J)						0.0147
9/6/2016			<0.01					
11/15/2016							0.003 (J)	0.0154 (B)
11/16/2016	0.0015 (J)	0.0012 (J)		<0.01	0.0029 (J)	0.0051 (J)		
11/17/2016			<0.01					
2/20/2017						0.0049 (J)	0.0047 (J)	0.014
2/21/2017	0.001 (J)	0.0017 (J)	<0.01	<0.01	0.0036 (J)			
6/12/2017				0.0005 (J)		0.0052 (J)	0.0041 (J)	0.016
6/13/2017		0.0019 (J)	<0.01		0.0038 (J)			
6/14/2017	0.0012 (J)							
9/26/2017	0.0014 (J)	0.0018 (J)	<0.01	0.0005 (J)	0.0045 (J)	0.0039 (J)	0.0037 (J)	0.0144
2/13/2018				<0.01	<0.01	<0.01	<0.01	0.0144
2/14/2018	<0.01	<0.01	<0.01					
6/26/2018	<0.01	0.0022 (J)	<0.01	<0.01	0.008 (J)	0.0053 (J)	0.0043 (J)	0.015
12/18/2018	0.0016 (J)	0.0022 (J)	<0.01	<0.01	0.012	0.0032 (J)	0.0054 (J)	0.015
8/27/2019	0.0023 (J)	0.0024 (J)		0.0004 (J)	0.0083 (J)	0.0055 (J)	0.0043 (J)	0.015
8/29/2019			0.0016 (J)					
10/15/2019	0.0021 (J)	0.0023 (J)	0.0017 (J)	<0.01	0.0083 (J)	0.0047 (J)	0.0055 (J)	0.014
3/3/2020	0.0026 (J)	0.0028 (J)		0.00047 (J)	0.0098 (J)	0.0069 (J)	0.0057 (J)	0.011
3/4/2020			0.0019 (J)					
8/18/2020	0.0023 (J)	0.0029 (J)	0.0017 (J)	0.00096 (J)	0.0085 (J)	0.0069 (J)	0.005 (J)	0.015
9/15/2020	0.00096 (J)	0.0025 (J)	0.0019 (J)	<0.01	0.0082 (J)	0.0069 (J)	0.0048 (J)	0.014
3/1/2021				<0.01				0.011
3/2/2021	0.002 (J)	0.0021 (J)	0.002 (J)		0.0074	0.0064	0.0044 (J)	
9/21/2021	0.0023 (J)	0.0024 (J)				0.0064	0.0044 (J)	
9/22/2021			0.0026 (J)	<0.01	0.0091			0.014
2/1/2022	0.0027 (J)	0.0029 (J)	0.0028 (J)	0.0013 (J)	0.0092	0.0066	0.0052	0.015
8/23/2022	<0.01	<0.01	<0.01	<0.01	0.00908 (J)	0.00647 (J)	0.00435 (J)	0.0143
1/24/2023	<0.01	<0.01	<0.01	<0.01	0.0095 (J)	0.00513 (J)	0.00572 (J)	0.0139
8/31/2023			<0.01	<0.01	0.00921 (J)	0.00701 (J)	0.00472 (J)	0.0132

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
9/6/2016				<0.01				
9/8/2016	<0.01	0.001 (J)	<0.01		<0.01			
11/17/2016	<0.01							
11/18/2016		<0.01						
11/21/2016			<0.01	<0.01	<0.01			
2/21/2017	<0.01	<0.01						
2/22/2017			<0.01	<0.01	0.0012 (J)			
6/13/2017	<0.01	<0.01						
6/14/2017			<0.01	<0.01	0.0009 (J)			
9/27/2017	<0.01	<0.01	<0.01	<0.01	0.0011 (J)			
2/14/2018	<0.01	<0.01	<0.01	<0.01	<0.01			
3/6/2018						<0.01	<0.01	
3/15/2018								<0.01
5/1/2018						<0.01	<0.01 (D)	<0.01
6/26/2018	<0.01							
6/27/2018		<0.01	<0.01		<0.01		<0.01	
6/28/2018				<0.01		<0.01		0.0023 (J)
7/31/2018						<0.01		
8/1/2018							<0.01	0.0046 (J)
8/23/2018						<0.01	<0.01	
9/19/2018						<0.01	<0.01	
10/29/2018						<0.01	<0.01	<0.01
11/28/2018						<0.01	<0.01	<0.01
12/18/2018	<0.01		<0.01	<0.01				
12/19/2018					<0.01		0.0018 (J)	<0.01
12/20/2018		0.003 (J)				<0.01		
1/16/2019								<0.01
8/27/2019	0.0016 (J)			0.0051 (J)	0.0019 (J)			
8/28/2019		<0.01	<0.01			<0.01	0.00092 (J)	
8/29/2019								<0.01
10/15/2019	0.00098 (J)							
10/16/2019			<0.01				<0.01	0.0005 (J)
12/3/2019						<0.01		
12/4/2019		<0.01		<0.01	0.0014 (J)			
3/4/2020	<0.01	<0.01	0.02				0.00078 (J)	0.00071 (J)
3/5/2020				<0.01	0.0014 (J)	0.00053 (J)		
8/19/2020	<0.01	<0.01	<0.01	<0.01	0.0021 (J)			
8/20/2020						0.001 (J)	0.00064 (J)	0.00065 (J)
9/15/2020	<0.01		<0.01					
9/16/2020		<0.01		0.014	0.0025 (J)	0.0014 (J)	<0.01	
9/17/2020								0.00098 (J)
3/2/2021	<0.01					<0.01	<0.01	
3/3/2021		<0.01	<0.01	<0.01				
3/4/2021					0.002 (J)			0.001 (J)
9/23/2021						<0.01	<0.01	
9/27/2021								<0.01
9/28/2021	<0.01	<0.01	<0.01	<0.01	0.0021 (J)			
2/2/2022	<0.01			<0.01	0.0021 (J)	<0.01	<0.01	
2/3/2022			<0.01					<0.01
2/4/2022		<0.01						
8/23/2022	<0.01						<0.01	
8/24/2022			<0.01	<0.01				<0.01

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
8/25/2022		<0.01			<0.01	<0.01		
1/24/2023					<0.01			
1/25/2023		<0.01				<0.01		<0.01
1/26/2023	<0.01		<0.01	<0.01			<0.01	
8/31/2023				<0.01	<0.01			
9/6/2023	<0.01	<0.01	<0.01			<0.01	<0.01	
9/8/2023								<0.01

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWC-52I	PZ-44	PZ-50D	PZ-51D	PZ-51I	PZ-58I	PZ-60I	PZ-61I
3/6/2018		<0.01						
5/1/2018		<0.01						
8/10/2018	0.0017 (J)							
8/23/2018	<0.01							
9/19/2018	<0.01							
10/29/2018	<0.01							
11/28/2018	<0.01							
12/20/2018	<0.01							
1/17/2019	<0.01							
1/19/2019					<0.01			
2/13/2019	<0.01							
8/29/2019	<0.01							
10/16/2019	<0.01							
10/18/2019					<0.01			
3/4/2020	<0.01							
8/20/2020	<0.01				<0.01			
9/17/2020	<0.01				0.00098 (J)			
3/3/2021				<0.01				
3/4/2021	<0.01				0.0008 (J)			
3/5/2021			<0.01					
9/27/2021					<0.01			0.0077
9/28/2021	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01	
2/2/2022	<0.01	<0.01			<0.01			<0.01
2/3/2022			<0.01	<0.01		<0.01	<0.01	
8/24/2022				<0.01	<0.01	<0.01	<0.01	<0.01
8/25/2022	<0.01	<0.01	<0.01					
1/25/2023	<0.01	<0.01						
1/26/2023				<0.01	<0.01	<0.01	<0.01	<0.01
1/27/2023			<0.01					
8/31/2023								<0.01
9/6/2023	<0.01			<0.01				
9/8/2023		<0.01	<0.01		<0.01	<0.01	<0.01	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D

Plant Branch Data: Plant Branch AP

	PZ-63I	PZ-64I	PZ-68D	PZ-74I	PZ-75I
2/4/2022	<0.01				
8/25/2022	<0.01				
10/12/2022		<0.01			
1/30/2023	<0.01	<0.01			
2/1/2023			<0.01		
9/6/2023				<0.01	<0.01
9/8/2023	<0.01	<0.01	<0.01		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWA-12I (bg)	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)
8/31/2016				0.0016 (J)	0.0034 (J)	0.0013 (J)	<0.001	
9/1/2016	<0.001	<0.001						<0.001
9/6/2016			0.0028 (J)					
11/15/2016							<0.001	<0.001
11/16/2016	<0.001	<0.001		0.0006 (J)	0.003 (J)	<0.01 (o)		
11/17/2016			0.0072 (J)					
2/20/2017						0.0012 (J)	0.0009 (J)	<0.001
2/21/2017	<0.001	<0.001	0.0045 (J)	<0.005	0.0028 (J)			
6/12/2017				<0.005		0.0011 (J)	0.0006 (J)	0.0003 (J)
6/13/2017		<0.001	0.0036 (J)		0.0025 (J)			
6/14/2017	<0.001							
9/26/2017	<0.001	<0.001	0.0037 (J)	<0.005	0.002 (J)	0.0016 (J)	0.0005 (J)	0.0003 (J)
2/13/2018				<0.005	<0.005	<0.01 (o)	<0.001	<0.001
2/14/2018	<0.001	<0.001	0.0135					
6/26/2018	<0.001	<0.001	0.0098 (J)	<0.005	0.0019 (J)	0.0009 (J)	0.00052 (J)	<0.001
7/31/2018	<0.001	<0.001						
12/18/2018	<0.001	<0.001	0.0057 (J)	<0.005	0.0032 (J)	0.00062 (J)	<0.001	<0.001
8/27/2019	<0.001	<0.001		<0.005	0.0012 (J)	0.00068 (J)	0.00042 (J)	<0.001
8/29/2019			0.0015 (J)					
10/15/2019	<0.001	<0.001	0.0011 (J)	<0.005	0.00097 (J)	0.00083 (J)	<0.001	<0.001
3/3/2020	<0.001	<0.001		<0.005	0.0015 (J)	0.00043 (J)	<0.001	0.0011 (J)
3/4/2020			0.0012 (J)					
8/18/2020	<0.001	<0.001	0.00067 (J)	<0.005	0.0014 (J)	0.00048 (J)	<0.001	0.00061 (J)
9/15/2020	<0.001	<0.001	0.00076 (J)	<0.005	0.001 (J)	0.0005 (J)	<0.001	<0.001
3/1/2021				<0.005				<0.001
3/2/2021	<0.001	<0.001	<0.001		0.001 (J)	0.00053 (J)	<0.001	
9/21/2021	<0.001	<0.001				0.00071 (J)	<0.001	
9/22/2021			<0.001	0.0015 (J)	<0.005			0.00078 (J)
2/1/2022	<0.001	<0.001	0.00052 (J)	0.00079 (J)	0.0011 (J)	0.0007 (J)	<0.001	<0.001
8/23/2022	<0.001	<0.001	0.000308 (J)	0.000767 (J)	0.000844 (J)	0.000553 (J)	<0.001	<0.001
1/24/2023	<0.001	<0.001	<0.001	0.00154	0.000829 (J)	0.000677 (J)	<0.001	<0.001
8/31/2023			<0.001	0.000707 (J)	0.000707 (J)	0.000474 (J)	0.000327 (J)	<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
9/6/2016				0.0006 (J)				
9/8/2016	0.0073 (J)	0.0149	0.0122		0.0025 (J)			
11/17/2016	0.0086 (J)							
11/18/2016		0.0131						
11/21/2016			0.0122	<0.04	0.001 (J)			
2/21/2017	0.0079 (J)	0.0099 (J)						
2/22/2017			0.0136	0.0016 (J)	<0.001			
6/13/2017	0.0083 (J)	0.0094 (J)						
6/14/2017			0.0113	0.0015 (J)	<0.001			
9/27/2017	0.0087 (J)	0.0095 (J)	0.0094 (J)	0.0007 (J)	<0.001			
2/14/2018	<0.01	0.0112	<0.01	<0.04	<0.001			
3/6/2018						0.0162	<0.001	
3/15/2018								1.3
5/1/2018						0.015	0.0125 (D)	1.4
6/26/2018	0.006 (J)							
6/27/2018		0.0093 (J)	0.0069 (J)		<0.001		0.0076 (J)	
6/28/2018				0.00078 (J)		0.01		1.3
7/31/2018						0.0098 (J)		
8/1/2018							0.004 (J)	1.4
8/23/2018						0.0093 (J)	0.0016 (J)	
9/19/2018						0.0084 (J)	0.0018 (J)	
10/29/2018						0.0064 (J)	0.0014 (J)	1.4
11/28/2018						0.0071 (J)	0.0016 (J)	1.4
12/18/2018	0.0055 (J)		0.0067 (J)	0.0011 (J)				
12/19/2018					<0.001		0.0014 (J)	1.5
12/20/2018		0.0081 (J)				0.069		
1/16/2019								1.4
8/27/2019	0.0042 (J)			0.0014 (J)	<0.001			
8/28/2019		0.01	0.0061			0.011	0.00037 (J)	
8/29/2019								1.3
10/15/2019	0.0043 (J)							
10/16/2019			0.0058				0.00032 (J)	1.4
10/17/2019		0.011 (J)		<0.04	<0.001	0.0098 (J)		
12/3/2019						0.0076		
12/4/2019		0.0086		0.0012 (J)	<0.001			
3/4/2020	0.0039 (J)	0.008	0.007				0.0011 (J)	1.5
3/5/2020				0.0011 (J)	<0.001	0.0091		
8/19/2020	0.0039 (J)	0.0078	0.0065	0.0008 (J)	<0.001			
8/20/2020						0.022	0.00043 (J)	1.4
9/15/2020	0.0035 (J)		0.0064					
9/16/2020		0.008		0.0008 (J)	<0.001	0.0049 (J)	0.00053 (J)	
9/17/2020								1.4
3/2/2021	0.003 (J)					0.0057	0.0005 (J)	
3/3/2021		0.0062	0.0095	0.0015 (J)				
3/4/2021					<0.001			1.4
9/23/2021						0.0049 (J)	<0.001	
9/27/2021								1.3
9/28/2021	0.0029 (J)	0.0047 (J)	0.0069	0.001 (J)	<0.001			
2/2/2022	0.0027 (J)			0.0012 (J)	<0.001	0.0054	<0.001	
2/3/2022			0.0077					1.5
2/4/2022		0.0076						
8/23/2022	0.00342						<0.001	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
8/24/2022			0.0066	0.00163				1.42
8/25/2022		0.0079			<0.001	0.00357		
1/24/2023					<0.001			
1/25/2023		0.00711				0.00258		1.35
1/26/2023	0.0032		0.00823	0.00158			0.000376 (J)	
8/31/2023				0.00183	<0.001			
9/6/2023	0.00343	0.00601	0.00724			0.00221	<0.001	
9/8/2023								1.38

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWC-52I	PZ-44	PZ-50D	PZ-51D	PZ-51I	PZ-58I	PZ-60I	PZ-61I
3/6/2018		<0.001						
5/1/2018		<0.001						
8/3/2018					0.041			
8/10/2018	0.0043 (J)							
8/23/2018	0.0026 (J)							
9/19/2018	0.0028 (J)							
10/29/2018	0.0015 (J)							
11/28/2018	0.0012 (J)							
12/20/2018	<0.001							
1/17/2019	<0.001							
1/19/2019					0.018			
2/13/2019	<0.001							
8/29/2019	0.00063 (J)							
10/16/2019	<0.001							
10/18/2019					0.017			
3/4/2020	<0.001							
8/20/2020	<0.001				0.02			
9/17/2020	0.00046 (J)				0.022			
10/27/2020			0.0037 (J)	0.00041 (J)	0.02			
3/3/2021				0.0004 (J)				
3/4/2021	<0.001				0.019			
3/5/2021			0.0038 (J)					
9/27/2021					0.02			0.45
9/28/2021	<0.001	<0.001	0.2	<0.001		0.39	3.5	
2/2/2022	<0.001	<0.001			0.023			0.51
2/3/2022			0.1	<0.001		0.43	3.4	
8/24/2022				0.000306 (J)	0.0239	0.503	3.57	0.562
8/25/2022	<0.001	<0.001	0.506					
1/25/2023	<0.001	<0.001						
1/26/2023				<0.001	0.0231	0.518	3.64	0.604
1/27/2023			0.0728					
8/31/2023								0.757
9/6/2023	0.000317 (J)			0.000427 (J)				
9/8/2023		<0.001	0.00991		0.0259	0.556	3.79	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

	PZ-63I	PZ-64I	PZ-68D	PZ-74I	PZ-75I
2/4/2022	0.019				
8/25/2022	0.0232				
10/12/2022		9.05			
1/30/2023	0.028	11			
2/1/2023			0.000825 (J)		
9/6/2023				0.00059 (J)	0.00105
9/8/2023	0.0309	10.6	0.00106		

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWA-12I (bg)	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)
8/31/2016				0.351 (U)	1 (U)	0.62 (U)	0.603 (U)	
9/1/2016	0.428 (U)	0.566 (U)						1.33
9/6/2016			0.585 (U)					
11/15/2016							0.645 (U)	0.412 (U)
11/16/2016	0.799 (U)	0.863 (U)		0.824 (U)	0.43 (U)	0.493 (U)		
11/17/2016			0.804 (U)					
2/20/2017						0.534 (U)	1.36	0.633 (U)
2/21/2017	1.75 (U)	0.318 (U)	0.595 (U)	1.01 (U)	0.96 (U)			
6/12/2017				0.532 (U)		0.254 (U)	0.566 (U)	0.112 (U)
6/13/2017		0.163 (U)	0.618 (U)		0.645 (U)			
6/14/2017	2.66							
9/26/2017	0.841 (U)	0.56 (U)	1.26 (U)	0.845 (U)	0.299 (U)	0.62 (U)	0.762 (U)	0.167 (U)
2/13/2018				0.176 (U)	1.01 (U)	0.0914 (U)	0.349 (U)	0.347 (U)
2/14/2018	1.13 (UX)	0.537 (U)	1.2 (U)					
6/26/2018	1.42 (J+X)	1.31 (UX)	1.34 (U)	1.02 (U)	1.26 (J+X)	1.11 (U)	0.614 (U)	0.903 (U)
12/18/2018	0.855 (U)	1.31 (J+X)	1.13 (U)	0.487 (U)	0.44 (U)	0.42 (U)	0.445 (U)	0.353 (U)
8/27/2019	1.31	1.32		1.11	1.47	1.19	1.44	0.65 (U)
8/29/2019			1.45 (U)					
10/15/2019	1.13 (U)	1.05 (U)	1.69	1.02 (U)	0.807 (U)	0.714 (U)	0.467 (U)	0.402 (U)
3/3/2020	1.29 (U)	1.68		1.18 (U)	0.818 (U)	0.996 (U)	1.5	0.397 (U)
3/4/2020			1.45					
8/18/2020	0.988 (U)	0.969 (U)	0.784 (U)	0.0861 (U)	1.22 (U)	0.53 (U)	0.581 (U)	0.453 (U)
9/15/2020	0.762 (U)	0.359 (U)	1.04 (U)	0.0583 (U)	0.579 (U)	0.215 (U)	0.55 (U)	0.474 (U)
3/1/2021				0.127 (U)				0.215 (U)
3/2/2021	0.901	0.925	1.12		0.342 (U)	0.409 (U)	0.362 (U)	
9/21/2021	1.33	0.468 (U)				0.182 (U)	0.86 (U)	
9/22/2021			1.4	0.349 (U)	1.33 (U)			0.943 (U)
2/1/2022	0.833 (U)	0.659 (U)	1.15	0.233 (U)	0.251 (U)	1.23	0.23 (U)	0.349 (U)
8/23/2022	0.558	1.69	1.59	1.7	0.531	2.3	0.735	0.203
1/24/2023	1.49 (U)	3.07	5.62	2.05 (U)	1.35 (U)	0.811 (U)	0.402 (U)	1.55 (U)
9/22/2023			2.16	0.857 (U)	0.592 (U)	1.36	1.31 (U)	1.89 (U)

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
9/6/2016				1.01 (U)				
9/8/2016	0.862 (U)	1.74	1.13		0.706 (U)			
11/17/2016	1.2 (U)							
11/18/2016		0.571 (U)						
11/21/2016			1.59	0.201 (U)	0.0569 (U)			
2/21/2017	1.31	1.28 (U)						
2/22/2017			1.64	0.57 (U)	1.07 (U)			
6/13/2017	0.738 (U)	0.521 (U)						
6/14/2017			1.32	0.726 (U)	0.459 (U)			
9/27/2017	0.583 (U)	0.595 (U)	1.7	0.884 (U)	0.807 (U)			
2/14/2018	1.41 (J+X)	1.18 (U)	1.89 (J+X)	1.14 (U)	1.67 (J+X)			
3/6/2018						1.25 (U)	1.75 (J+X)	
3/15/2018								1.31
5/1/2018						0.423 (U)	2.02 (J+XD)	1.69 (J+X)
6/26/2018	0.968 (U)							
6/27/2018		1.3 (U)	1.66 (J+X)		1.34 (UX)		0.878 (U)	
6/28/2018				1.4 (UX)		0.283 (U)		1.04 (U)
7/31/2018						0.243 (U)		
8/1/2018							0.638 (U)	1.67
8/23/2018						1.1 (U)	1.14 (U)	
9/19/2018						0.369 (U)	1.45 (UX)	
10/29/2018						0.401 (U)	1.09 (U)	0.992 (U)
11/28/2018						0.901 (U)	1.67 (UX)	1.76 (UX)
12/18/2018	1.13 (U)		0.759 (U)	0.661 (U)				
12/19/2018					1.21 (U)		1.3	2.15 (J+X)
12/20/2018		0.527 (U)				0.657 (U)		
1/16/2019								1.39
8/27/2019	0.91 (U)			1.35	0.86 (U)			
8/28/2019		0.643 (U)	1.76			0.528 (U)	0.804 (U)	
8/29/2019								1.33
10/15/2019	1.06 (U)							
10/16/2019			1.69 (U)				1.28 (U)	2.51
10/17/2019		1.07 (U)		1.25 (U)	1.2 (U)	0.977 (U)		
3/4/2020	1.34	1.18	1.23				0.862 (U)	1.73
3/5/2020				1.35	0.483 (U)	0.921 (U)		
8/19/2020	0.467 (U)	0.684 (U)	0.876 (U)	1 (U)	0.482 (U)			
8/20/2020						0.501 (U)	1.64	2.78
9/15/2020	0.205 (U)		1.23 (U)					
9/16/2020		0.175 (U)		0.43 (U)	0.195 (U)	0.254 (U)	0.51 (U)	
9/17/2020								0.717 (U)
3/2/2021	0.161 (U)					0.107 (U)	0.571 (U)	
3/3/2021		0.829 (U)	1.31 (U)	0.415 (U)				
3/4/2021					0.32 (U)			1.22
9/23/2021						0.619 (U)	0.527 (U)	
9/27/2021								2.07
9/28/2021	4.44	3.58	1.49	0.749 (U)	0.947 (U)			
2/2/2022	0.64 (U)			1.21 (U)	0.0265 (U)	0.219 (U)	0.145 (U)	
2/3/2022			0.798 (U)					1.15
2/4/2022		0.335 (U)						
8/23/2022	1.9						3.74	
8/24/2022			1.97	3.26				1.87
8/25/2022		1.79			1.32	1.65		

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
1/24/2023					2.25			
1/25/2023		1.53 (U)				1.29 (U)		5.71
1/26/2023	3.24		2.27 (U)	2.73 (U)			3.28	
9/22/2023				2.71	2.33			1.55
9/26/2023	1.21 (U)	2.23	3.02			0.607 (U)	2.39	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWC-52I	PZ-44	PZ-50D	PZ-51D	PZ-51I	PZ-58I	PZ-60I	PZ-61I
3/6/2018		0.577 (U)						
5/1/2018		0.27 (U)						
8/10/2018	1.91							
8/23/2018	1.86 (J+X)							
9/19/2018	1.64 (UX)							
10/29/2018	1.36 (U)							
11/28/2018	1.07 (U)							
12/20/2018	0.892 (U)							
1/17/2019	1.1 (U)							
1/19/2019					1.86			
2/13/2019	1.68							
8/29/2019	1.44							
10/16/2019	2.13							
10/18/2019					11.7 (U)			
3/4/2020	2.3							
8/20/2020	2.97				0.937 (U)			
9/17/2020	2.04				1.76			
3/3/2021				2.54				
3/4/2021	2.04				0.966 (U)			
3/5/2021			2.11					
9/27/2021					0.771 (U)			1.14 (U)
9/28/2021	3.28	0.526 (U)	1.05	1.89		1.66	2.79	
2/2/2022	2.33	0.244 (U)			0.992 (U)			1.16
2/3/2022			1	2.23		1.33	2.46	
8/24/2022				3.33	0.625	1.16	3.5	2.91
8/25/2022	4.97	1.6	2.26					
1/25/2023	7.94	2.49 (U)						
1/26/2023				3.7	1.53 (U)	4.03	5.31	3.2
1/27/2023			2.66 (U)					
9/22/2023		0.477 (U)	2.12		5.22	3.71	4.48	0.868 (U)
9/26/2023	6.36			1.27				

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D

Plant Branch Data: Plant Branch AP

	PZ-63I	PZ-64I	PZ-68D	PZ-74I	PZ-75I
2/4/2022	0.768				
8/25/2022	1.52				
10/12/2022		2.14			
1/30/2023	6.03	3.5			
2/1/2023			4.16		
9/22/2023	2.31	0.877 (U)	1.62		
9/26/2023				0.811 (U)	3.11

Time Series

Constituent: Fluoride (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

	BRGWA-12I (bg)	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)
8/31/2016				0.11 (J)	0.05 (J)	0.07 (J)	0.19 (J)	
9/1/2016	0.2 (J)	0.05 (J)						0.06 (J)
9/6/2016			0.42					
11/15/2016							0.13 (J)	0.06 (J)
11/16/2016	0.14 (J)	0.03 (J)		0.08 (J)	0.07 (J)	0.07 (J)		
11/17/2016			0.15 (J)					
2/20/2017						0.06 (J)	0.08 (J)	0.04 (J)
2/21/2017	0.16 (J)	0.04 (J)	0.1 (J)	0.14 (J)	0.05 (J)			
6/12/2017				0.16 (J)		0.008 (J)	0.07 (J)	0.06 (J)
6/13/2017		0.008 (J)	0.07 (J)		0.04 (J)			
6/14/2017	0.09 (J)							
9/26/2017	0.1 (J)	<0.1	<0.1	0.14 (J)	<0.1	<0.1	0.04 (J)	<0.1
2/13/2018				<0.1	<0.1	<0.1	<0.1	<0.1
2/14/2018	<0.3	<0.1	<0.1					
6/26/2018	0.079 (J)	0.042 (J)	0.053 (J)	0.085 (J)	0.048 (J)	0.045 (J)	0.072 (J)	0.041 (J)
12/18/2018	<0.3	<0.1	<0.1	0.085 (J)	<0.1	<0.1	<0.1	<0.1
3/19/2019	<0.3	<0.1	<0.1	0.0655 (JD)	0.037 (J)	<0.1	0.06 (J)	0.03 (J)
8/27/2019	<0.3	<0.1		<0.1	<0.1	<0.1	<0.1	<0.1
8/29/2019			0.084 (J)					
10/15/2019	0.047 (J)	<0.1	<0.1	<0.1	<0.1	<0.1	0.045 (J)	<0.1
3/3/2020	0.056 (J)	<0.1		0.066 (J)	0.05 (J)	<0.1	0.057 (J)	0.09 (J)
3/4/2020			<0.1					
8/18/2020	0.052 (J)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
9/15/2020	0.062 (J)	<0.1	<0.1	<0.1	<0.1	<0.1	0.051 (J)	<0.1
3/1/2021				<0.1				<0.1
3/2/2021	0.061 (J)	<0.1	<0.1		<0.1	<0.1	<0.1	
9/21/2021	0.071 (J)	<0.1				<0.1	0.056 (J)	
9/22/2021			0.069 (J)	<0.1	<0.1			<0.1
2/1/2022	0.055 (J)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
8/23/2022	0.151	0.129	0.157	<0.1	<0.1	<0.1	<0.1	<0.1
1/24/2023	0.214	0.0926 (J)	0.231	<0.1	<0.1	0.149	0.158	0.12
8/23/2023			0.114	0.267	0.229	0.289	0.277	0.0787 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
9/6/2016				0.43				
9/8/2016	0.14 (J)	0.31	0.2 (J)		0.15 (J)			
11/17/2016	0.27 (J)							
11/18/2016		0.19 (J)						
11/21/2016			0.37	0.24 (J)	0.04 (J)			
2/21/2017	0.6	0.35						
2/22/2017			0.37	0.2 (J)	0.08 (J)			
6/13/2017	0.19 (J)	0.19 (J)						
6/14/2017			0.38	0.15 (J)	0.09 (J)			
9/27/2017	0.5	0.4	0.4	0.41	<0.1			
2/14/2018	<0.3	<0.3	<0.3	<0.3	<0.1			
3/6/2018						0.94	1.1	
3/15/2018								0.84 (JX)
5/1/2018						<0.1	0.595 (D)	0.91
6/26/2018	0.15 (J)							
6/27/2018		0.26 (J)	0.085 (J)		<0.1		0.27 (J)	
6/28/2018				0.93 (J+X)		0.69 (J+X)		1.1 (J+X)
7/31/2018						<0.1		
8/1/2018							0.48	2
8/23/2018						<0.1	0.34	
9/19/2018						<0.1	0.23 (J)	
10/29/2018						<0.1	<0.1	0.24 (J)
11/28/2018						<0.1	0.063 (J)	0.41
12/18/2018	0.29 (J)		0.26 (J)	0.54				
12/19/2018					0.23 (J)		0.28 (J)	0.54
12/20/2018		0.26 (J)				0.12 (J)		
1/16/2019								1.1
3/19/2019		0.2 (J)					<0.1	
3/20/2019	0.17 (JD)		0.091 (J)	0.31	<0.1	0.066 (J)		0.21 (J)
8/27/2019	0.15 (J)			0.12 (J)	<0.1			
8/28/2019		0.074 (J)	0.055 (J)			<0.1	<0.1	
8/29/2019								0.41
10/15/2019	0.16 (J)							
10/16/2019			0.11 (J)				0.076 (J)	0.39
12/3/2019						0.19 (J)		
12/4/2019		0.18 (J)		0.26 (J)	0.11 (J)			
3/4/2020	0.07 (J)	<0.3	<0.3				<0.1	0.14 (J)
3/5/2020				0.051 (J)	<0.1	<0.1		
8/19/2020	0.17	0.19	0.12	0.14	<0.1			
8/20/2020						<0.1	<0.1	0.39
9/15/2020	0.15		0.057 (J)					
9/16/2020		0.15		0.13	<0.1	0.052 (J)	<0.1	
9/17/2020								0.46
3/2/2021	0.15					0.067 (J)	<0.1	
3/3/2021		0.24	0.13	0.13				
3/4/2021					<0.1			0.6
9/23/2021						0.06 (J)	<0.1	
9/27/2021								0.43
9/28/2021	0.15	0.16	0.081 (J)	0.11	<0.1			
2/2/2022	0.15			0.1	<0.1	<0.1	<0.1	
2/3/2022			0.11					0.42
2/4/2022		0.14						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
8/23/2022	0.186						<0.1	
8/24/2022			0.103	0.318				0.497
8/25/2022		0.234			0.138	0.166		
1/24/2023					0.082 (J)			
1/25/2023		0.152				0.163		0.432
1/26/2023	0.202		0.0935 (J)	0.167			0.117	
8/23/2023				0.116	0.0477 (J)			
8/24/2023								0.499
8/25/2023	0.25	0.302	0.0849 (J)			0.185	0.243	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

	BRGWC-52I	PZ-44	PZ-50D	PZ-51D	PZ-51I	PZ-58I	PZ-60I	PZ-61I
3/6/2018		<0.3						
5/1/2018		<0.3						
8/10/2018	1.6 (O)							
8/23/2018	0.32							
9/19/2018	0.22 (J)							
10/29/2018	0.14 (J)							
11/28/2018	0.24 (J)							
12/20/2018	0.3							
1/17/2019	0.23 (J)							
1/19/2019					<0.1			
2/13/2019	<0.3							
3/20/2019	0.135 (JD)							
8/29/2019	0.087 (J)							
10/16/2019	0.22 (J)							
10/18/2019					<0.1			
3/4/2020	0.1 (J)							
8/20/2020	0.23				<0.1			
9/17/2020	0.074 (J)				<0.1			
10/27/2020			0.28	0.21	<0.1			
3/3/2021				0.28				
3/4/2021	0.28				0.061 (J)			
3/5/2021			0.16					
9/27/2021					<0.1			0.067 (J)
9/28/2021	0.12	0.08 (J)	0.11	0.26		0.97	1.6	
2/2/2022	0.098 (J)	0.065 (J)			<0.1			<0.1
2/3/2022			0.15	0.27		1.8	2.3	
8/24/2022				0.318	0.148	1.09	1.32	0.103
8/25/2022	0.157	0.184	0.106					
1/25/2023	0.169	0.13						
1/26/2023				0.354	0.12	1.19	1.66	0.184
1/27/2023			0.151 (J)					
8/23/2023								0.188
8/24/2023		0.195	0.193		0.0744 (J)	1.1	1.32	
8/25/2023	0.188 (J)			0.395				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

	PZ-63I	PZ-64I	PZ-68D	PZ-74I	PZ-75I
2/4/2022	0.14				
8/25/2022	0.235				
10/12/2022		0.0781 (J)			
1/30/2023	0.23	0.0767 (J)			
2/1/2023			0.166		
8/24/2023	0.252	0.135	0.218		
8/25/2023				0.157	0.14

Time Series

Constituent: Lead (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWA-12I (bg)	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)
8/31/2016				<0.002	<0.002	<0.002	<0.002	
9/1/2016	<0.002	<0.002						0.0001 (J)
9/6/2016			<0.002					
11/15/2016							<0.002	<0.002
11/16/2016	<0.002	<0.002		<0.002	<0.002	<0.002		
11/17/2016			<0.002					
2/20/2017						<0.002	0.0002 (J)	<0.002
2/21/2017	<0.002	<0.002	<0.002	<0.002	<0.002			
6/12/2017				8E-05 (J)		<0.002	0.0001 (J)	8E-05 (J)
6/13/2017		<0.002	<0.002		<0.002			
6/14/2017	<0.002							
9/26/2017	<0.002	<0.002	<0.002	7E-05 (J)	7E-05 (J)	<0.002	0.0001 (J)	<0.002
2/13/2018				<0.002	<0.002	<0.002	<0.002	<0.002
2/14/2018	<0.002	<0.002	<0.002					
6/26/2018	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
12/18/2018	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
8/27/2019	<0.002	<0.002		<0.002	5.8E-05 (J)	<0.002	0.00036 (J)	<0.002
8/29/2019			7E-05 (J)					
10/15/2019	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	7.9E-05 (J)	<0.002
3/3/2020	<0.002	<0.002		<0.002	<0.002	<0.002	7.9E-05 (J)	7.3E-05 (J)
3/4/2020			<0.002					
8/18/2020	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.0001 (J)	<0.002
9/15/2020	<0.002	<0.002	<0.002	<0.002	<0.002	0.0013 (J)	4.3E-05 (J)	<0.002
3/1/2021				<0.002				<0.002
3/2/2021	<0.002	<0.002	<0.002		<0.002	3.7E-05 (J)	<0.002	
9/21/2021	<0.002	<0.002				<0.002	<0.002	
9/22/2021			<0.002	<0.002	<0.002			<0.002
2/1/2022	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
8/23/2022	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
1/24/2023	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
8/31/2023			<0.002	<0.002	<0.002	<0.002	<0.002	<0.002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
9/6/2016				<0.002				
9/8/2016	<0.002	<0.002	0.0004 (J)		<0.002			
11/17/2016	<0.002							
11/18/2016		<0.002						
11/21/2016			0.0006 (J)	<0.002	<0.002			
2/21/2017	<0.002	<0.002						
2/22/2017			0.0005 (J)	<0.002	<0.002			
6/13/2017	<0.002	<0.002						
6/14/2017			0.0004 (J)	<0.002	<0.002			
9/27/2017	<0.002	<0.002	0.0006 (J)	<0.002	<0.002			
2/14/2018	<0.002	<0.002	<0.005 (o)	<0.002	<0.002			
3/6/2018						<0.002	<0.002	
3/15/2018								<0.002
5/1/2018						<0.002	<0.002 (D)	<0.002
6/26/2018	<0.002							
6/27/2018		<0.002	0.00032 (J)		<0.002		<0.002	
6/28/2018				<0.002		<0.002		0.00054 (J)
7/31/2018						<0.002		
8/1/2018							<0.002	<0.002
8/23/2018						<0.002	<0.002	
9/19/2018						<0.002	<0.002	
10/29/2018						<0.002	<0.002	0.0003 (J)
11/28/2018						<0.002	<0.002	<0.002
12/18/2018	<0.002		0.00038 (J)	<0.002				
12/19/2018					<0.002		<0.002	<0.002
12/20/2018		<0.002				<0.002		
1/16/2019								<0.002
8/27/2019	0.00011 (J)			<0.002	<0.002			
8/28/2019		<0.002	0.00027 (J)			<0.002	<0.002	
8/29/2019								4.9E-05 (J)
10/15/2019	<0.002							
10/16/2019			0.00027 (J)				<0.002	8.5E-05 (J)
12/3/2019						<0.002		
12/4/2019		6.3E-05 (J)		<0.002	<0.002			
3/4/2020	<0.002	<0.002	0.0003 (J)				0.00012 (J)	0.0001 (J)
3/5/2020				<0.002	<0.002	0.00026 (J)		
8/19/2020	<0.002	<0.002	0.00025 (J)	<0.002	<0.002			
8/20/2020						0.00021 (J)	4.8E-05 (J)	6.7E-05 (J)
9/15/2020	<0.002		0.00029 (J)					
9/16/2020		<0.002		0.00011 (J)	<0.002	5.3E-05 (J)	6.6E-05 (J)	
9/17/2020								0.00015 (J)
3/2/2021	<0.002					<0.002	<0.002	
3/3/2021		<0.002	0.00033 (J)	<0.002				
3/4/2021					<0.002			0.00016 (J)
9/23/2021						<0.002	<0.002	
9/27/2021								<0.002
9/28/2021	<0.002	<0.002	<0.002	<0.002	<0.002			
2/2/2022	<0.002			<0.002	<0.002	<0.002	<0.002	
2/3/2022			<0.002					<0.002
2/4/2022		<0.002						
8/23/2022	<0.002						<0.002	
8/24/2022			<0.002	<0.002				<0.002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
8/25/2022		<0.002			<0.002	<0.002		
1/24/2023					<0.002			
1/25/2023		<0.002				0.000595 (J)		<0.002
1/26/2023	<0.002		<0.002	<0.002			<0.002	
8/31/2023				<0.002	<0.002			
9/6/2023	<0.002	<0.002	<0.002			<0.002	<0.002	
9/8/2023								<0.002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWC-52I	PZ-44	PZ-50D	PZ-51D	PZ-51I	PZ-58I	PZ-60I	PZ-61I
3/6/2018		<0.002						
5/1/2018		<0.002						
8/10/2018	<0.002							
8/23/2018	<0.002							
9/19/2018	<0.002							
10/29/2018	<0.002							
11/28/2018	<0.002							
12/20/2018	<0.002							
1/17/2019	<0.002							
1/19/2019					<0.002			
2/13/2019	<0.002							
8/29/2019	<0.002							
10/16/2019	<0.002							
10/18/2019					<0.002			
3/4/2020	<0.002							
8/20/2020	<0.002				<0.002			
9/17/2020	<0.002				0.00036 (J)			
3/3/2021				0.00013 (J)				
3/4/2021	4.2E-05 (J)				0.00017 (J)			
3/5/2021			5.6E-05 (J)					
9/27/2021					<0.002			0.0019
9/28/2021	<0.002	<0.002	<0.002	<0.002		<0.005	<0.002	
2/2/2022	<0.002	<0.002			<0.002			<0.002
2/3/2022			<0.002	<0.002		<0.005	<0.002	
8/24/2022				<0.002	<0.002	0.000894 (J)	<0.002	0.00113 (J)
8/25/2022	<0.002	<0.002	<0.002					
1/25/2023	<0.002	<0.002						
1/26/2023				<0.002	<0.002	0.000895 (J)	<0.002	<0.002
1/27/2023			<0.002					
8/31/2023								<0.002
9/6/2023	<0.002			<0.002				
9/8/2023		<0.002	<0.002		<0.002	0.00086 (J)	<0.002	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

	PZ-63I	PZ-64I	PZ-68D	PZ-74I	PZ-75I
2/4/2022	<0.002				
8/25/2022	<0.002				
10/12/2022		<0.002			
1/30/2023	<0.002	<0.002			
2/1/2023			<0.002		
9/6/2023				<0.002	<0.002
9/8/2023	<0.002	<0.002	<0.002		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWA-12I (bg)	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)
8/31/2016				0.0268 (J)	<0.01	<0.01	<0.01	
9/1/2016	0.0061 (J)	<0.01						0.003 (J)
9/6/2016			0.0028 (J)					
11/15/2016							<0.01	0.0033 (J)
11/16/2016	0.0054 (J)	<0.01		0.0201 (J)	<0.01	0.0033 (J)		
11/17/2016			0.0063 (J)					
2/20/2017						<0.01	<0.01	0.0025 (J)
2/21/2017	0.0058 (J)	<0.01	0.0052 (J)	0.0128 (J)	<0.01			
6/12/2017				0.0245 (J)		0.0019 (J)	<0.01	0.0027 (J)
6/13/2017		<0.01	0.0061 (J)		<0.01			
6/14/2017	0.0054 (J)							
9/26/2017	0.0037 (J)	<0.01	0.0087 (J)	0.0549	<0.01	0.0022 (J)	<0.01	0.0023 (J)
2/13/2018				0.0595	<0.01	0.0041 (J)	<0.01	0.0027 (J)
2/14/2018	0.0038 (J)	<0.01	0.0104 (J)					
6/26/2018	0.0045 (J)	<0.01	0.0095 (J)	0.089	<0.01	0.0025 (J)	<0.01	0.0029 (J)
12/18/2018	0.0038 (J)	<0.01	0.0091 (J)	0.024 (J)	<0.01	0.0032 (J)	<0.01	0.0026 (J)
8/27/2019	0.0039 (J)	<0.01		0.035	<0.01	0.0019 (J)	<0.01	0.0028 (J)
8/29/2019			0.007 (J)					
10/15/2019	0.0037 (J)	<0.01	0.0069 (J)	0.028 (J)	<0.01	0.002 (J)	<0.01	0.0024 (J)
3/3/2020	0.0033 (J)	<0.01		0.055	<0.01	0.0013 (J)	<0.01	0.0026 (J)
3/4/2020			0.0074 (J)					
8/18/2020	0.0039 (J)	<0.01	0.0099 (J)	0.054	<0.01	0.00095 (J)	<0.01	0.0026 (J)
9/15/2020	0.0037 (J)	<0.01	0.011 (J)	0.033	<0.01	0.001 (J)	<0.01	0.0027 (J)
3/1/2021				0.027 (J)				0.0036 (J)
3/2/2021	0.0045 (J)	<0.01	0.0093 (J)		<0.01	0.00081 (J)	<0.01	
9/21/2021	0.0037 (J)	<0.01				0.0012 (J)	<0.01	
9/22/2021			0.0074 (J)	0.021 (J)	<0.01			0.0035 (J)
2/1/2022	0.0037 (J)	<0.01	0.008 (J)	0.023 (J)	<0.01	0.0011 (J)	<0.01	0.0029 (J)
8/23/2022	0.00451 (J)	<0.01	0.00792 (J)	0.0262	<0.01	<0.01	<0.01	0.00314 (J)
1/24/2023	0.00529 (J)	<0.01	0.00749 (J)	0.00919 (J)	<0.01	<0.01	<0.01	0.00341 (J)
8/31/2023			0.00596 (J)	0.0209	<0.01	<0.01	<0.01	<0.01

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
9/6/2016				0.0117 (J)				
9/8/2016	<0.01	0.0021 (J)	0.004 (J)		<0.05			
11/17/2016	<0.01							
11/18/2016		<0.01						
11/21/2016			0.0039 (J)	0.0108 (J)	<0.05			
2/21/2017	<0.01	<0.01						
2/22/2017			0.0043 (J)	0.0103 (J)	0.0023 (J)			
6/13/2017	<0.01	0.0017 (J)						
6/14/2017			0.0036 (J)	0.0101 (J)	0.0022 (J)			
9/27/2017	<0.01	0.0016 (J)	0.0038 (J)	0.0116 (J)	0.0021 (J)			
2/14/2018	<0.01	0.0018 (J)	0.0034 (J)	0.0115 (J)	0.0023 (J)			
3/6/2018						0.0031 (J)	0.0399 (J)	
3/15/2018								0.038 (J)
5/1/2018						0.0038 (J)	0.0475 (JD)	0.042 (J)
6/26/2018	<0.01							
6/27/2018		0.0016 (J)	0.0034 (J)		0.0023 (J)		0.044 (J)	
6/28/2018				0.013 (J)		0.0028 (J)		0.04 (J)
7/31/2018						<0.25 (o)		
8/1/2018							0.039 (J)	0.036 (J)
8/23/2018						0.0033 (J)	0.044 (J)	
9/19/2018						0.0033 (J)	0.043 (J)	
10/29/2018						0.003 (J)	0.039 (J)	0.041 (J)
11/28/2018						0.0035 (J)	0.044 (J)	0.041 (J)
12/18/2018	<0.01		0.0032 (J)	0.014 (J)				
12/19/2018					0.0018 (J)		0.043 (J)	0.043 (J)
12/20/2018		0.0015 (J)				0.003 (J)		
1/16/2019								0.042 (J)
8/27/2019	<0.01			0.016 (J)	0.0022 (J)			
8/28/2019		0.0016 (J)	0.0033 (J)			0.0034 (J)	0.044	
8/29/2019								0.039
10/15/2019	<0.01							
10/16/2019			0.0029 (J)				0.038	0.034
12/3/2019						0.0033 (J)		
12/4/2019		0.0014 (J)		0.013 (J)	0.0022 (J)			
3/4/2020	<0.01	0.0014 (J)	0.0029 (J)				0.042	0.042
3/5/2020				0.016 (J)	0.0022 (J)	0.003 (J)		
8/19/2020	<0.01	0.0014 (J)	0.0029 (J)	0.018 (J)	0.002 (J)			
8/20/2020						0.0034 (J)	0.044	0.04
9/15/2020	<0.01		0.003 (J)					
9/16/2020		0.0014 (J)		0.016 (J)	0.0022 (J)	0.0036 (J)	0.039	
9/17/2020								0.052
3/2/2021	<0.01					0.0043 (J)	0.044	
3/3/2021		0.0012 (J)	0.0032 (J)	0.014 (J)				
3/4/2021					0.002 (J)			0.05
9/23/2021						0.0023 (J)	0.042	
9/27/2021								0.038
9/28/2021	<0.01	0.0011 (J)	0.0029 (J)	0.023 (J)	0.0021 (J)			
2/2/2022	<0.01			0.021 (J)	0.0035 (J)	0.0022 (J)	0.04	
2/3/2022			0.0026 (J)					0.038
2/4/2022		0.001 (J)						
8/23/2022	<0.01						0.0474	
8/24/2022			0.00304 (J)	0.0238				0.0428

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
8/25/2022		<0.01			0.0043 (J)	<0.01		
1/24/2023					0.007 (J)			
1/25/2023		<0.01				0.00333 (J)		0.0542
1/26/2023	<0.01		0.00331 (J)	0.0279			0.0506	
8/31/2023				0.0253	0.00392 (J)			
9/6/2023	<0.01	<0.01	0.00349 (J)			<0.01	0.0532	
9/8/2023								0.0393

Time Series

Constituent: Lithium (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWC-52I	PZ-44	PZ-50D	PZ-51D	PZ-51I	PZ-58I	PZ-60I	PZ-61I
3/6/2018		0.0046 (J)						
5/1/2018		0.0049 (J)						
8/10/2018	0.0087 (J)							
8/23/2018	0.0089 (J)							
9/19/2018	0.005 (J)							
10/29/2018	0.0048 (J)							
11/28/2018	0.0052 (J)							
12/20/2018	0.0042 (J)							
1/17/2019	0.0039 (J)							
1/19/2019					0.019 (J)			
2/13/2019	<0.05							
8/29/2019	0.0052 (J)							
10/16/2019	0.0023 (J)							
10/18/2019					0.019 (J)			
3/4/2020	0.002 (J)							
8/20/2020	0.0022 (J)				0.019 (J)			
9/17/2020	0.0058 (J)				0.021 (J)			
3/3/2021				0.0093 (J)				
3/4/2021	0.003 (J)				0.026 (J)			
3/5/2021			0.019 (J)					
9/27/2021					0.02 (J)			0.0095 (J)
9/28/2021	0.0035 (J)	0.0048 (J)	0.02 (J)	0.0096 (J)		0.041	0.1	
2/2/2022	0.0041 (J)	0.0058 (J)			0.021 (J)			0.011 (J)
2/3/2022			0.024 (J)	0.0096 (J)		0.041	0.098	
8/24/2022				0.0042 (J)	0.0222	0.0488	0.101	0.00913 (J)
8/25/2022	0.0162	0.00652 (J)	0.0255					
1/25/2023	0.0186	0.00728 (J)						
1/26/2023				0.00883 (J)	0.0247	0.0553	0.114	0.0123
1/27/2023			0.0274					
8/31/2023								0.0106
9/6/2023	0.0131			0.00667 (J)				
9/8/2023		0.0056 (J)	0.0232		0.0221	0.0468	0.0936	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D

Plant Branch Data: Plant Branch AP

	PZ-63I	PZ-64I	PZ-68D	PZ-74I	PZ-75I
2/4/2022	0.007 (J)				
8/25/2022	0.00509 (J)				
10/12/2022		0.0181			
1/30/2023	0.0066 (J)	0.0187			
2/1/2023			0.00899 (J)		
9/6/2023				0.00711 (J)	0.00579 (J)
9/8/2023	0.00516 (J)	0.0126	0.00399 (J)		

Time Series

Constituent: Mercury (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

	BRGWA-12I (bg)	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)
8/31/2016				<0.0002	<0.0002	<0.0002	<0.0002	
9/1/2016	<0.0002	<0.0002						<0.0002
9/6/2016			<0.0002					
11/15/2016							<0.0002	<0.0002
11/16/2016	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002		
11/17/2016			<0.0002					
2/20/2017						<0.0002	8E-05 (J)	<0.0002
2/21/2017	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002			
6/12/2017				4E-05 (J)		<0.0002	<0.0002	<0.0002
6/13/2017		<0.0002	<0.0002		<0.0002			
6/14/2017	6E-05 (J)							
9/26/2017	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
2/13/2018				0.00021	0.00019 (J)	<0.0002	0.00013 (J)	<0.0002
2/14/2018	5.2E-05 (J)	<0.0002	<0.0002					
6/26/2018	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
12/18/2018	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
8/27/2019	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
8/29/2019			<0.0002					
8/18/2020	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
9/15/2020	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
3/1/2021				<0.0002				<0.0002
3/2/2021	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002	
9/21/2021	0.0001 (J)	0.0001 (J)				0.0001 (J)	0.0001 (J)	
9/22/2021			0.0001 (J)	0.0001 (J)	0.0001 (J)			0.0001 (J)
2/1/2022	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
8/23/2022	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
1/24/2023	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
8/25/2023			<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
9/6/2016				<0.0002				
9/8/2016	<0.0002	<0.0002	<0.0002		<0.0002			
11/17/2016	<0.0002							
11/18/2016		<0.0002						
11/21/2016			<0.0002	<0.0002	<0.0002			
2/21/2017	<0.0002	<0.0002						
2/22/2017			<0.0002	<0.0002	<0.0002			
6/13/2017	<0.0002	5E-05 (J)						
6/14/2017			7E-05 (J)	7E-05 (J)	9E-05 (J)			
9/27/2017	4E-05 (J)	4.7E-05 (J)	4E-05 (J)	4E-05 (J)	0.0001 (J)			
2/14/2018	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002			
3/6/2018						<0.0002	<0.0002	
3/15/2018								<0.0002
5/1/2018						<0.0002	<0.0002 (D)	<0.0002
6/26/2018	<0.0002							
6/27/2018		<0.0002	<0.0002		<0.0002		<0.0002	
6/28/2018				<0.0002		<0.0002		<0.0002
7/31/2018						<0.0002		
8/1/2018							<0.0002	<0.0002
8/23/2018						<0.0002	<0.0002	
9/19/2018						<0.0002	<0.0002	
10/29/2018						<0.0002	<0.0002	<0.0002
11/28/2018						<0.0002	<0.0002	<0.0002
12/18/2018	<0.0002		<0.0002	<0.0002				
12/19/2018					<0.0002		<0.0002	<0.0002
12/20/2018		<0.0002				<0.0002		
1/16/2019								<0.0002
8/27/2019	<0.0002			<0.0002	<0.0002			
8/28/2019		<0.0002	<0.0002			<0.0002	<0.0002	
8/29/2019								<0.0002
8/19/2020	8.3E-05 (J)	<0.0002	9.8E-05 (J)	8.2E-05 (J)	8.2E-05 (J)			
8/20/2020						<0.0002	<0.0002	<0.0002
9/15/2020	<0.0002		<0.0002					
9/16/2020		<0.0002		<0.0002	<0.0002	<0.0002	<0.0002	
9/17/2020								<0.0002
3/2/2021	<0.0002					<0.0002	<0.0002	
3/3/2021		<0.0002	<0.0002	<0.0002				
3/4/2021					<0.0002			<0.0002
9/23/2021						<0.0002	<0.0002	
9/27/2021								<0.0002
9/28/2021	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002			
2/2/2022	<0.0002			<0.0002	<0.0002	<0.0002	<0.0002	
2/3/2022			<0.0002					<0.0002
2/4/2022		<0.0002						
8/23/2022	<0.0002						<0.0002	
8/24/2022			<0.0002	<0.0002				<0.0002
8/25/2022		<0.0002			<0.0002	<0.0002		
1/24/2023					<0.0002			
1/25/2023		<0.0002				<0.0002		<0.0002
1/26/2023	<0.0002		<0.0002	<0.0002			<0.0002	
8/25/2023				<0.0002	<0.0002			
8/29/2023	<0.0002	<0.0002	<0.0002			<0.0002	<0.0002	<0.0002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

	BRGWC-52I	PZ-44	PZ-50D	PZ-51D	PZ-51I	PZ-58I	PZ-60I	PZ-61I
3/6/2018		<0.0002						
5/1/2018		<0.0002						
8/10/2018	<0.0002							
8/23/2018	<0.0002							
9/19/2018	<0.0002							
10/29/2018	<0.0002							
11/28/2018	<0.0002							
12/20/2018	<0.0002							
1/17/2019	<0.0002							
1/19/2019					<0.0002			
2/13/2019	<0.0002							
8/29/2019	<0.0002							
10/18/2019					<0.0002			
8/20/2020	<0.0002				9.9E-05 (J)			
9/17/2020	<0.0002				<0.0002			
3/3/2021				<0.0002				
3/4/2021	<0.0002				<0.0002			
3/5/2021			<0.0002					
9/27/2021					<0.0002			<0.0002
9/28/2021	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002	
2/2/2022	<0.0002	<0.0002			<0.0002			<0.0002
2/3/2022			<0.0002	<0.0002		<0.0002	<0.0002	
8/24/2022				<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
8/25/2022	<0.0002	<0.0002	<0.0002					
1/25/2023	<0.0002	<0.0002						
1/26/2023				<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
1/27/2023			<0.0002					
8/25/2023								<0.0002
8/29/2023	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

	PZ-63I	PZ-64I	PZ-68D	PZ-74I	PZ-75I
2/4/2022	<0.0002				
8/25/2022	<0.0002				
10/12/2022		<0.0002			
1/30/2023	<0.0002	<0.0002			
2/1/2023			<0.0002		
8/29/2023	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWA-12I (bg)	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)
8/31/2016				0.0021 (J)	<0.001	0.004 (J)	<0.001	
9/1/2016	0.002 (J)	<0.001						<0.001
9/6/2016			0.0028 (J)					
11/15/2016							<0.001	<0.001
11/16/2016	<0.01	<0.001		<0.01	<0.001	0.0038 (J)		
11/17/2016			<0.001					
2/20/2017						0.0055 (J)	<0.001	<0.001
2/21/2017	<0.01	<0.001	<0.001	0.0021 (J)	<0.001			
6/12/2017				0.0021 (J)		0.005 (J)	<0.001	<0.001
6/13/2017		<0.001	<0.001		<0.001			
6/14/2017	<0.01							
9/26/2017	<0.01	<0.001	<0.001	0.0011 (J)	<0.001	0.0053 (J)	<0.001	<0.001
2/13/2018				0.0019 (J)	<0.001	0.008 (J)	<0.001	<0.001
2/14/2018	<0.01	<0.001	<0.001					
6/26/2018	<0.01	<0.001	<0.001	<0.01	<0.001	0.0041 (J)	<0.001	<0.001
12/18/2018	<0.01	<0.001	<0.001	<0.01	<0.001	0.0048 (J)	<0.001	<0.001
8/27/2019	<0.01	<0.001		<0.01	<0.001	0.0028 (J)	<0.001	<0.001
8/29/2019			<0.001					
10/15/2019	<0.01	<0.001	<0.001	<0.01	<0.001	0.0035 (J)	<0.001	<0.001
3/3/2020				<0.01	<0.001	0.0023 (J)	<0.001	<0.001
8/18/2020	<0.01	<0.001	<0.001	0.0011 (J)	<0.001	0.0015 (J)	<0.001	<0.001
9/15/2020	<0.01	<0.001	<0.001	0.0007 (J)	<0.001	0.0015 (J)	<0.001	<0.001
3/1/2021				<0.01				<0.001
3/2/2021	<0.01	<0.001	<0.001		<0.001	0.0015 (J)	<0.001	
9/21/2021	<0.01	<0.001				0.002 (J)	<0.001	
9/22/2021			<0.001	0.0012 (J)	<0.001			<0.001
2/1/2022	<0.01	<0.001	<0.001	0.0013 (J)	<0.001	0.002 (J)	<0.001	<0.001
8/23/2022	0.000413 (J)	<0.001	<0.001	0.0024	<0.001	0.00151	<0.001	<0.001
1/24/2023	0.000388 (J)	<0.001	<0.001	0.000601 (J)	<0.001	0.00192	<0.001	<0.001
8/31/2023			<0.001	0.00169	<0.001	0.000953 (J)	<0.001	<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
9/6/2016				<0.01				
9/8/2016	<0.01	<0.001	<0.001		<0.001			
11/17/2016	<0.01							
11/18/2016		<0.001						
11/21/2016			<0.001	<0.01	<0.001			
2/21/2017	<0.01	<0.001						
2/22/2017			<0.001	<0.01	<0.001			
6/13/2017	<0.01	<0.001						
6/14/2017			<0.001	<0.01	<0.001			
9/27/2017	<0.01	<0.001	<0.001	<0.01	<0.001			
2/14/2018	<0.01	<0.001	<0.001	<0.01	<0.001			
3/6/2018						<0.01	<0.01	
3/15/2018								<0.001
5/1/2018						<0.01	<0.01 (D)	0.0022 (J)
6/26/2018	<0.01							
6/27/2018		<0.001	<0.001		<0.001		<0.01	
6/28/2018				<0.01		<0.01		<0.001
7/31/2018						<0.01		
8/1/2018							<0.01	0.0033 (J)
8/23/2018						<0.01	<0.01	
9/19/2018						<0.01	<0.01	
10/29/2018						<0.01	<0.01	<0.001
11/28/2018						<0.01	<0.01	<0.001
12/18/2018	<0.01		<0.001	<0.01				
12/19/2018					<0.001		<0.01	<0.001
12/20/2018		<0.001				<0.01		
1/16/2019								<0.001
8/27/2019	<0.01			<0.01	<0.001			
8/28/2019		<0.001	<0.001			<0.01	<0.01	
8/29/2019								<0.001
10/15/2019	<0.01							
10/16/2019			<0.001				<0.01	<0.001
12/3/2019						<0.01		
12/4/2019		<0.001		<0.01	<0.001			
8/19/2020	0.00081 (J)	<0.001	<0.001	0.00078 (J)	<0.001			
8/20/2020						0.00076 (J)	<0.01	<0.001
9/15/2020	0.0008 (J)		<0.001					
9/16/2020		<0.001		0.0022 (J)	<0.001	<0.01	<0.01	
9/17/2020								<0.001
3/2/2021	0.001 (J)					<0.01	<0.01	
3/3/2021		<0.001	<0.001	<0.01				
3/4/2021					<0.001			<0.001
9/23/2021						<0.01	<0.01	
9/27/2021								<0.001
9/28/2021	0.00089 (J)	<0.001	<0.001	0.001 (J)	<0.001			
2/2/2022	0.0011 (J)			0.0012 (J)	<0.001	<0.01	<0.01	
2/3/2022			<0.001					<0.001
2/4/2022		<0.001						
8/23/2022	0.00105						0.000296 (J)	
8/24/2022			<0.001	0.00141				<0.001
8/25/2022		<0.001			<0.001	0.000424 (J)		
1/24/2023					<0.001			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
1/25/2023		<0.001				0.000545 (J)		<0.001
1/26/2023	0.00092 (J)		<0.001	0.0014			0.00027 (J)	
8/31/2023				0.00111	<0.001			
9/6/2023	0.00141	<0.001	<0.001			0.000356 (J)	0.000296 (J)	
9/8/2023								<0.001

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWC-52I	PZ-44	PZ-50D	PZ-51D	PZ-51I	PZ-58I	PZ-60I	PZ-61I
3/6/2018		<0.001						
5/1/2018		<0.001						
8/10/2018	0.0032 (J)							
8/23/2018	0.005 (J)							
9/19/2018	0.0061 (J)							
10/29/2018	0.0065 (J)							
11/28/2018	0.0027 (J)							
12/20/2018	<0.01							
1/17/2019	<0.01							
1/19/2019					<0.001			
2/13/2019	<0.01							
8/29/2019	<0.01							
10/16/2019	<0.01							
10/18/2019					<0.001			
8/20/2020	0.0012 (J)				<0.001			
9/17/2020	0.0007 (J)				<0.001			
3/3/2021				0.0068 (J)				
3/4/2021	0.001 (J)				<0.001			
3/5/2021			0.0017 (J)					
9/27/2021					<0.001			<0.001
9/28/2021	<0.01	<0.001	0.0021 (J)	0.0029 (J)		<0.001	<0.001	
2/2/2022	<0.01	<0.001			<0.001			<0.001
2/3/2022			0.0012 (J)	0.0017 (J)		<0.001	<0.001	
8/24/2022				0.00171	0.000313 (J)	<0.001	<0.001	<0.001
8/25/2022	0.000471 (J)	<0.001	0.00109					
1/25/2023	0.000609 (J)	<0.001						
1/26/2023				0.00085 (J)	0.000283 (J)	<0.001	<0.001	<0.001
1/27/2023			0.000817 (J)					
8/31/2023								<0.001
9/6/2023	0.000782 (J)			0.00142				
9/8/2023		<0.001	<0.001		<0.001	<0.001	<0.001	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D

Plant Branch Data: Plant Branch AP

	PZ-63I	PZ-64I	PZ-68D	PZ-74I	PZ-75I
2/4/2022	0.00092 (J)				
8/25/2022	0.000741 (J)				
10/12/2022		0.000432 (J)			
1/30/2023	0.000803 (J)	0.000201 (J)			
2/1/2023			0.0111		
9/6/2023				0.000597 (J)	<0.001
9/8/2023	0.000539 (J)	<0.001	0.00625		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: pH, Field (S.U.) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

	BRGWA-12I (bg)	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)
8/31/2016				7.16	6.2	6.53	6.59	
9/1/2016	6.71	6						6.49
9/6/2016			6.49					
11/15/2016							6.67	6.59
11/16/2016	6.15	6		6.96	6.12	6.4		
11/17/2016			5.79					
2/20/2017						6.44	6.65	6.61
2/21/2017	6.52	6.09	6.15	7.15	6.24			
6/12/2017				7.31		6.4	6.64	
6/13/2017	6.42	6.03	5.87		6.19			
6/14/2017	6.51							
9/26/2017	6.42	5.85	5.82	7.02	6.15	6.31	6.58	6.47
2/13/2018				7.44	6.18	6.62	6.72	6.54
2/14/2018	6.48	5.99	5.83					
6/26/2018	6.2	5.86	5.73	6.93	6.05	6.29	6.43	6.23
7/31/2018	6.37	5.99						
12/18/2018	6.5	6.08	5.78	6.76	5.92	6.57	6.7	6.71
3/19/2019	6.28	5.71	5.28	6.87	6.18	6.45	6.63	6.18
8/27/2019	6.35	6		6.79	6.09	6.37	6.49	6.35
8/29/2019			5.64					
10/15/2019	6.8	6.61	5.7	6.57	6.06	6.77	7.01	6.36
3/3/2020	6.33	5.94		6.71	6.1	6.29	6.49	6.59
3/4/2020			5.7					
8/18/2020	6.25	5.75	5.56	6.59	6.06	6.29	6.41	6.33
9/15/2020	6.01	6	5.72	6.64	6.01	6.27	6.25	6.43
3/1/2021				6.66				6.7
3/2/2021	6.11	5.92	5.75		6.2	6.47	6.42	
9/21/2021	6.53	5.87				6.32	6.36	
9/22/2021			5.72	6.78	6.06			6.48
2/1/2022	6.4	5.81	5.65	6.83	5.95	6.38	6.39	6.54
8/23/2022	6.39	5.9	5.66	6.67	5.95	6.24	6.36	6.51
1/24/2023	6.48	5.97	5.76	6.7	5.26	6.42	6.47	6.54
8/22/2023			5.89	6.91	5.97	6.36	6.09	6.27

Time Series

Constituent: pH, Field (S.U.) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
9/6/2016				6.23				
9/8/2016	6.07	5.51	4.62		5.89			
11/16/2016	5.96							
11/18/2016		5.53						
11/21/2016			4.44	6.23	5.56			
2/21/2017	5.98	5.63						
2/22/2017			4.42	6.16	5.87			
6/13/2017	5.96	5.57						
6/14/2017			4.45	6.16	5.83			
9/27/2017	5.85	5.53	4.33	6.16	5.87			
2/14/2018	5.94	5.83	4.42	6.24	6.01			
3/15/2018						5.26		5.26
5/1/2018						6.14	5.85	5.38
6/26/2018	5.87							
6/27/2018		5.53	4.37		5.83		5.87	
6/28/2018				6.21		5.88		5.03
7/31/2018						6.07		
8/1/2018							5.79	5.22
9/19/2018						5.9	5.71	
10/29/2018						5.93	5.76	5.19
11/28/2018						5.99	5.74	5.28
12/18/2018	5.84		4.38	6.18				
12/19/2018					5.79		5.8	5.15
12/20/2018		5.78				6.04		
1/16/2019								5.14
3/6/2019								6.15
3/19/2019		5.75					5.89	
3/20/2019	6.03		4.4	6.24	5.88	6.1		5.32
8/27/2019	6.01			6.17	5.85			
8/28/2019		5.51	4.39			5.86	5.74	
8/29/2019								5.2
10/15/2019	6							
10/16/2019			4.79				5.9	5.36
10/17/2019		6.01 (D)		6.43	6.09	5.93		
3/4/2020	6.02	5.8	4.5				5.76	5.2
3/5/2020				5.99	5.74	5.95		
5/12/2020					5.88			
8/19/2020	6.32	5.81	4.67	6.36	5.97			
8/20/2020						5.86	5.75	5.26
9/15/2020	6		4.53					
9/16/2020		5.81		6.29	5.79	5.27	5.76	
9/17/2020								4.41
3/2/2021	6.1					6.17	5.59	
3/3/2021		5.9	4.46	6.29				
3/4/2021					5.98			4.34
9/23/2021						5.95	5.74	
9/27/2021								5.05
9/28/2021	5.97	5.82	4.23	6.33	5.82			
2/2/2022	6.23			6.34	5.99	5.92	5.75	
2/3/2022			4.23					5.2
2/4/2022		5.97						
8/23/2022	6.11						5.61	

Time Series

Constituent: pH, Field (S.U.) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
8/24/2022			4.39	6.38				5.01
8/25/2022		6.03			6.06	5.74		
1/24/2023					6.05			
1/25/2023		5.63				5.82		5.18
1/26/2023	6.18		4.3	6.28			5.65	
8/22/2023				6.44	5.98			
8/23/2023								5.12
8/24/2023	6.14	6.01	4.48			5.71	5.69	

Time Series

Constituent: pH, Field (S.U.) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

	BRGWC-52I	PZ-44	PZ-50D	PZ-51D	PZ-51I	PZ-58I	PZ-60I	PZ-61I
5/1/2018		6.12						
8/3/2018					5.47			
8/10/2018	6.28							
8/23/2018	6.75							
9/19/2018	6.48							
10/29/2018	6.77							
11/28/2018	6.44							
12/20/2018	6.75							
1/17/2019	6.41							
1/19/2019					5.45			
2/13/2019	6.42							
3/20/2019	6.59							
8/29/2019	6.27							
10/16/2019	7							
10/18/2019					5.79			
3/4/2020	6.54							
8/20/2020	6.85				5.57			
9/17/2020	6.12				4.93			
10/27/2020			6.47	6.79	5.49			
3/3/2021				7.1				
3/4/2021	5.87				4.57			
3/5/2021			7.06					
9/27/2021					5.34			5.02
9/28/2021	6.81	6.22	6.23	7.18		4	4.77	
2/2/2022	6.35	6.2			5.44			5.25
2/3/2022			6.24	6.77		3.9	4.73	
8/24/2022				7.15	5.49	3.81	4.55	5.14
8/25/2022	6.21	6.06	6.11					
1/25/2023	6.25	6.13						
1/26/2023				7.2	5.44	3.93	4.6	5.16
1/27/2023			6.24					
8/22/2023								5.16
8/23/2023			6.09		5.37	3.99	4.58	
8/24/2023	6.24			7.07				

Time Series

Constituent: pH, Field (S.U.) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

	PZ-63I	PZ-64I	PZ-68D	PZ-74I	PZ-75I
2/4/2022	5.89				
8/25/2022	5.65				
10/12/2022		5.53			
1/30/2023	5.66	5.33			
2/1/2023			7.28		
8/23/2023	5.68	5.21	7.41		
8/24/2023				5.89	5.76

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWA-12I (bg)	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)
8/31/2016				<0.005	<0.005	<0.005	<0.005	
9/1/2016	<0.005	<0.005						<0.005
9/6/2016			<0.005					
11/15/2016							<0.005	<0.005
11/16/2016	<0.005	<0.005		<0.005	<0.005	<0.005		
11/17/2016			0.0052 (J)					
2/20/2017						<0.005	<0.005	<0.005
2/21/2017	<0.005	<0.005	0.0018 (J)	<0.005	<0.005			
6/12/2017				<0.005		<0.005	<0.005	<0.005
6/13/2017		<0.005	<0.005		<0.005			
6/14/2017	<0.005							
9/26/2017	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2/13/2018				<0.005	<0.005	<0.005	<0.005	<0.005
2/14/2018	<0.005	<0.005	<0.005					
6/26/2018	<0.005	<0.005	0.0036 (J)	<0.005	<0.005	<0.005	<0.005	<0.005
12/18/2018	<0.005	<0.005	0.0044 (J)	<0.005	<0.005	<0.005	<0.005	<0.005
8/27/2019	<0.005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005
8/29/2019			0.0023 (J)					
10/15/2019	<0.005	<0.005	0.0022 (J)	<0.005	<0.005	<0.005	<0.005	<0.005
3/3/2020	<0.005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005
3/4/2020			0.0019 (J)					
8/18/2020	<0.005	<0.005	0.0033 (J)	<0.005	<0.005	<0.005	<0.005	<0.005
9/15/2020	<0.005	<0.005	0.0028 (J)	<0.005	<0.005	<0.005	<0.005	<0.005
3/1/2021				<0.005				<0.005
3/2/2021	<0.005	<0.005	0.006		<0.005	<0.005	<0.005	
9/21/2021	<0.005	<0.005				<0.005	<0.005	
9/22/2021			0.0016 (J)	<0.005	<0.005			<0.005
2/1/2022	<0.005	<0.005	0.002 (J)	<0.005	<0.005	<0.005	<0.005	<0.005
8/23/2022	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1/24/2023	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
8/31/2023			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
9/6/2016				<0.005				
9/8/2016	<0.005	0.0043 (J)	0.0039 (J)		<0.01			
11/17/2016	<0.005							
11/18/2016		0.0047 (J)						
11/21/2016			0.0058 (J)	<0.005	<0.01			
2/21/2017	<0.005	0.0025 (J)						
2/22/2017			0.005 (J)	<0.005	0.0017 (J)			
6/13/2017	<0.005	0.0036 (J)						
6/14/2017			0.0074 (J)	0.0045 (J)	<0.01			
9/27/2017	<0.005	0.004 (J)	0.0068 (J)	0.0034 (J)	0.0019 (J)			
2/14/2018	<0.005	<0.005	<0.005	<0.005	<0.01			
3/6/2018						<0.005	<0.005	
3/15/2018								<0.005
5/1/2018						<0.005	<0.005 (D)	<0.005
6/26/2018	<0.005							
6/27/2018		0.0014 (J)	<0.005		0.0017 (J)		<0.005	
6/28/2018				<0.005		<0.005		<0.005
7/31/2018						<0.005		
8/1/2018							0.0015 (J)	0.0031 (J)
8/23/2018						<0.005	<0.005 (X)	
9/19/2018						<0.005	0.002 (J)	
10/29/2018						<0.005	<0.005	0.002 (J)
11/28/2018						<0.005	<0.005	0.0017 (J)
12/18/2018	<0.005		<0.005	<0.005				
12/19/2018					0.0059 (J)		<0.005	<0.005
12/20/2018		<0.005				<0.005		
1/16/2019								<0.005
8/27/2019	<0.005			0.0038 (J)	0.057			
8/28/2019		0.0017 (J)	<0.005			<0.005	<0.005	
8/29/2019								<0.005
10/15/2019	<0.005							
10/16/2019			<0.005				0.0017 (J)	0.002 (J)
12/3/2019						0.0029 (J)		
12/4/2019		0.0036 (J)		0.0018 (J)	0.1			
3/4/2020	<0.005	0.0022 (J)	0.0018 (J)				<0.005	0.0026 (J)
3/5/2020				<0.005	0.1	<0.005		
5/12/2020					0.0989			
8/19/2020	<0.005	<0.005	<0.005	<0.005	0.099			
8/20/2020						<0.005	0.0016 (J)	0.0037 (J)
9/15/2020	<0.005		<0.005					
9/16/2020		0.0042 (J)		<0.005	0.12	<0.005	0.002 (J)	
9/17/2020								<0.005
3/2/2021	0.0021 (J)					<0.005	0.0028 (J)	
3/3/2021		0.0031 (J)	0.0042 (J)	<0.005				
3/4/2021					0.14			0.0039 (J)
9/23/2021						<0.005	<0.005	
9/27/2021								0.0022 (J)
9/28/2021	<0.005	<0.005	0.0022 (J)	<0.005	0.13			
2/2/2022	<0.005			<0.005	0.21	<0.005	<0.005	
2/3/2022			<0.005					<0.005
2/4/2022		<0.005						
8/23/2022	<0.005						<0.005	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
8/24/2022			<0.005	<0.005				0.00176 (J)
8/25/2022		<0.005			0.218	<0.005		
1/24/2023					0.198			
1/25/2023		<0.005				<0.005		0.00189 (J)
1/26/2023	<0.005		<0.005	<0.005			<0.005	
8/31/2023				<0.005	0.21			
9/6/2023	<0.005	<0.005	<0.005			<0.005	<0.005	
9/8/2023								<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

	BRGWC-52I	PZ-44	PZ-50D	PZ-51D	PZ-51I	PZ-58I	PZ-60I	PZ-61I
3/6/2018		<0.005						
5/1/2018		<0.005						
8/10/2018	<0.005							
8/23/2018	<0.005							
9/19/2018	<0.005							
10/29/2018	<0.005							
11/28/2018	<0.005							
12/20/2018	<0.005							
1/17/2019	<0.005							
1/19/2019					<0.005			
2/13/2019	<0.005							
8/29/2019	<0.005							
10/16/2019	<0.005							
10/18/2019					<0.005			
3/4/2020	<0.005							
8/20/2020	<0.005				<0.005			
9/17/2020	<0.005				<0.005			
3/3/2021				<0.005				
3/4/2021	<0.005				<0.005			
3/5/2021			<0.005					
9/27/2021					<0.005			0.0079
9/28/2021	<0.005	<0.005	<0.005	<0.005		0.0034 (J)	0.0049 (J)	
2/2/2022	<0.005	<0.005			<0.005			0.0031 (J)
2/3/2022			<0.005	<0.005		0.0016 (J)	0.0026 (J)	
8/24/2022				<0.005	<0.005	0.00348 (J)	0.00417 (J)	0.0051
8/25/2022	<0.005	<0.005	<0.005					
1/25/2023	<0.005	<0.005						
1/26/2023				<0.005	<0.005	0.00265 (J)	0.0031 (J)	0.00321 (J)
1/27/2023			<0.005					
8/31/2023								0.00483 (J)
9/6/2023	<0.005			<0.005				
9/8/2023		<0.005	<0.005		<0.005	0.00494 (J)	0.0043 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

	PZ-63I	PZ-64I	PZ-68D	PZ-74I	PZ-75I
2/4/2022	<0.005				
8/25/2022	<0.005				
10/12/2022		0.0171			
1/30/2023	<0.005	0.0292			
2/1/2023			<0.005		
9/6/2023				0.0423	0.0696
9/8/2023	<0.005	0.0163	<0.005		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Sulfate (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWA-12I (bg)	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)
8/31/2016				7.5	0.38 (J)	2.7	0.81 (J)	
9/1/2016	2.7	1.7						0.6 (J)
9/6/2016			38					
11/15/2016							<1 (J)	0.68 (J)
11/16/2016	3.6	1.2		6.6	<1 (J)	3.4		
11/17/2016			84					
2/20/2017						3.9 (B-01)	1 (B-01)	0.98 (J)
2/21/2017	3	1.1	39	6.1	1.5			
6/12/2017				5		3.7	0.94 (J)	0.54 (J)
6/13/2017		1.1	35		0.67 (J)			
6/14/2017	2.6							
9/26/2017	2.5	1.3	89	5.4	0.62 (J)	4.1	0.92 (J)	0.53 (J)
2/13/2018				4.7 (J)	<1	6.6	<1	<1
2/14/2018	2.1 (J)	<1	82.2					
6/26/2018	2	0.84 (J)	84.2	6.2	0.69 (J)	3.5	0.91 (J)	0.54 (J)
7/31/2018	1.9	0.63 (J)						
12/18/2018	2.1	0.66 (J)	83.4	5.9	0.72 (J)	4.3	0.68 (J)	0.39 (J)
3/19/2019	2.2	0.75 (J)	65	6 (D)	0.78 (J)	3	0.74 (J)	0.68 (J)
10/15/2019	1.9	0.61 (J)	30	5.2	0.47 (J)	3.8	0.68 (J)	0.48 (J)
3/3/2020	1.8	0.51 (J)		7.1	0.93 (J)	2.8	0.71 (J)	2.5
3/4/2020			38.6					
9/15/2020	1.7	<1	41.5	5.9	<1	1.7	<1	<1
3/1/2021				4.7				0.74 (J)
3/2/2021	1.7	0.51 (J)	54		<1	2.2	<1	
9/21/2021	1.7	0.51 (J)				2.3	<1	
9/22/2021			34.6	5.2	<1			<1
2/1/2022	1.4	<1	36.8	5.4	<1	2	<1	<1
8/23/2022	1.84	0.636	24.4	5.66	0.452	2.21	0.521	0.479
1/24/2023	1.8	0.628	19.7	3.58	0.465	3.34	0.66	0.484
8/23/2023			11.3	6.85	0.526	1.83	0.54	0.467

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Time Series

Constituent: Sulfate (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
9/6/2016				310				
9/8/2016	280	300	460		370			
11/17/2016	200							
11/18/2016		320						
11/21/2016			500	300	420			
2/21/2017	360	270						
2/22/2017			570	280	380			
6/13/2017	290	230						
6/14/2017			440	290	400			
9/27/2017	310	260	380	260	400			
2/14/2018	260	232	280	250	383			
3/6/2018						111	1560	
3/15/2018								1590
5/1/2018						112	1465 (D)	1550
6/26/2018	231							
6/27/2018		205	281		372		1450	
6/28/2018				276		109		1530
7/31/2018						107		
8/1/2018							1560	1580
8/23/2018						108	1470	
9/19/2018						117	1500	
10/29/2018						127	1720	1750
11/28/2018						133	1730	1780
12/18/2018	231		293	440				
12/19/2018					370		1520	1650
12/20/2018		200				113		
1/16/2019								589 (O)
3/19/2019		199					1100	
3/20/2019	235 (D)		278	623	409	127		1740
10/15/2019	174							
10/16/2019			266				1560	1590
12/3/2019						105		
12/4/2019		241		327	293			
3/4/2020	165	205	238				1380	1370
3/5/2020				369	269	106		
9/15/2020	126		241					
9/16/2020		190		334	255	103	1360	
9/17/2020								1330
3/2/2021	139					98.3	1360	
3/3/2021		172	341	371				
3/4/2021					185			1250
9/23/2021						97.5	1240	
9/27/2021								1180
9/28/2021	112	137	250	612	189			
2/2/2022	117			580	210	90.1	1170	
2/3/2022			274					1270
2/4/2022		172						
8/23/2022	158						1410	
8/24/2022			298	935				1400
8/25/2022		176			254	114		
1/24/2023					247			
1/25/2023		150				102		1290

Time Series

Constituent: Sulfate (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
1/26/2023	182		293	1030			1310	
8/24/2023				1250	256			
8/25/2023	174						1300	1290
8/26/2023		94.5	288			114		

Time Series

Constituent: Sulfate (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWC-52I	PZ-44	PZ-50D	PZ-51D	PZ-51I	PZ-58I	PZ-60I	PZ-61I
3/6/2018		51.8						
5/1/2018		51						
8/3/2018					1170			
8/10/2018	183							
8/23/2018	145							
9/19/2018	178							
10/29/2018	157							
11/28/2018	189							
12/20/2018	150							
1/17/2019	157							
1/19/2019					1140			
2/13/2019	169							
3/20/2019	186.5 (D)							
10/16/2019	155							
10/18/2019					<1			
3/4/2020	129							
9/17/2020	165				1030			
10/27/2020			492	357	893			
3/3/2021				360				
3/4/2021	114				909			
3/5/2021			698					
9/27/2021					933			1420
9/28/2021	132	47.2	866	294		628	1670	
2/2/2022	126	45.3			889			1230
2/3/2022			903	339		767	2020	
8/24/2022				377	1240	840	1770	1800
8/25/2022	142	47	1060					
1/25/2023	145	41						
1/26/2023				370	1150	1070	1970	1490
1/27/2023			885					
8/24/2023								1440
8/25/2023	150	49.5	854	346	1200	949	1830	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Sulfate (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D

Plant Branch Data: Plant Branch AP

	PZ-63I	PZ-64I	PZ-68D	PZ-74I	PZ-75I
2/4/2022	195				
8/25/2022	234				
10/12/2022		2440			
1/30/2023	280	2800			
2/1/2023			258		
8/25/2023	294	2550	298		
8/26/2023				309	275

Time Series

Constituent: Thallium (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWA-12I (bg)	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)
8/31/2016				<0.002	<0.002	<0.002	<0.002	
9/1/2016	<0.002	<0.002						<0.002
9/6/2016			<0.002					
11/15/2016							<0.002	<0.002
11/16/2016	<0.002	<0.002		<0.002	<0.002	<0.002		
11/17/2016			<0.002					
2/20/2017						<0.002	<0.002	<0.002
2/21/2017	<0.002	<0.002	<0.002	<0.002	<0.002			
6/12/2017				<0.002		<0.002	<0.002	<0.002
6/13/2017		<0.002	<0.002		<0.002			
6/14/2017	<0.002							
9/26/2017	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
2/13/2018				<0.002	<0.002	<0.002	<0.002	<0.002
2/14/2018	<0.002	<0.002	<0.002					
6/26/2018	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
12/18/2018	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
8/27/2019	<0.002	<0.002		<0.002	<0.002	<0.002	<0.002	<0.002
8/29/2019			<0.002					
10/15/2019	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
3/3/2020	<0.002	<0.002		<0.002	<0.002	<0.002	<0.002	<0.002
3/4/2020			<0.002					
8/18/2020	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
9/15/2020	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
3/1/2021				<0.002				<0.002
3/2/2021	<0.002	<0.002	<0.002		<0.002	<0.002	<0.002	
9/21/2021	<0.002	<0.002				<0.002	<0.002	
9/22/2021			<0.002	<0.002	<0.002			<0.002
2/1/2022	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
8/23/2022	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
1/24/2023	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
8/31/2023			<0.002	<0.002	<0.002	<0.002	<0.002	<0.002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
9/6/2016				<0.002				
9/8/2016	<0.002	<0.002	<0.002		<0.002			
11/17/2016	<0.002							
11/18/2016		<0.002						
11/21/2016			0.0002 (J)	<0.002	<0.002			
2/21/2017	<0.002	<0.002						
2/22/2017			0.0002 (J)	<0.002	<0.002			
6/13/2017	<0.002	<0.002						
6/14/2017			0.0002 (J)	<0.002	<0.002			
9/27/2017	<0.002	<0.002	0.0002 (J)	<0.002	<0.002			
2/14/2018	<0.002	<0.002	0.00018 (J)	<0.002	<0.002			
3/6/2018						<0.002	<0.002	
3/15/2018								<0.002
5/1/2018						<0.002	<0.002 (D)	<0.002
6/26/2018	<0.002							
6/27/2018		<0.002	0.00017 (J)		<0.002		<0.002	
6/28/2018				<0.002		<0.002		<0.002
7/31/2018						<0.002		
8/1/2018							<0.002	<0.002
8/23/2018						<0.002	<0.002	
9/19/2018						<0.002	<0.002	
10/29/2018						<0.002	<0.002	<0.002
11/28/2018						<0.002	<0.002	<0.002
12/18/2018	<0.002		0.00017 (J)	<0.002				
12/19/2018					<0.002		<0.002	<0.002
12/20/2018		<0.002				<0.002		
1/16/2019								<0.002
8/27/2019	<0.002			<0.002	<0.002			
8/28/2019		<0.002	0.00017 (J)			<0.002	<0.002	
8/29/2019								<0.002
10/15/2019	<0.002							
10/16/2019			0.00017 (J)				<0.002	<0.002
12/3/2019						<0.002		
12/4/2019		<0.002		<0.002	<0.002			
3/4/2020	<0.002	<0.002	0.00016 (J)				<0.002	<0.002
3/5/2020				<0.002	<0.002	<0.002		
8/19/2020	<0.002	<0.002	0.00016 (J)	<0.002	<0.002			
8/20/2020						<0.002	<0.002	<0.002
9/15/2020	<0.002		0.00016 (J)					
9/16/2020		<0.002		<0.002	<0.002	<0.002	<0.002	
9/17/2020								<0.002
3/2/2021	<0.002					<0.002	<0.002	
3/3/2021		<0.002	0.00018 (J)	<0.002				
3/4/2021					<0.002			<0.002
9/23/2021						<0.002	<0.002	
9/27/2021								<0.002
9/28/2021	<0.002	<0.002	<0.002	<0.002	<0.002			
2/2/2022	<0.002			<0.002	<0.002	<0.002	<0.002	
2/3/2022			<0.002					<0.002
2/4/2022		<0.002						
8/23/2022	<0.002						<0.002	
8/24/2022			<0.002	<0.002				<0.002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
8/25/2022		<0.002			<0.002	<0.002		
1/24/2023					<0.002			
1/25/2023		<0.002				<0.002		<0.002
1/26/2023	<0.002		<0.002	<0.002			<0.002	
8/31/2023				<0.002	<0.002			
9/6/2023	<0.002	<0.002	<0.002			<0.002	<0.002	
9/8/2023								<0.002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

	BRGWC-52I	PZ-44	PZ-50D	PZ-51D	PZ-51I	PZ-58I	PZ-60I	PZ-61I
3/6/2018		<0.002						
5/1/2018		<0.002						
8/10/2018	<0.002							
8/23/2018	<0.002							
9/19/2018	<0.002							
10/29/2018	<0.002							
11/28/2018	<0.002							
12/20/2018	<0.002							
1/17/2019	<0.002							
1/19/2019					<0.002			
2/13/2019	<0.002							
8/29/2019	<0.002							
10/16/2019	<0.002							
10/18/2019					<0.002			
3/4/2020	<0.002							
8/20/2020	<0.002				<0.002			
9/17/2020	<0.002				<0.002			
3/3/2021				<0.002				
3/4/2021	<0.002				<0.002			
3/5/2021			<0.002					
9/27/2021					<0.002			<0.002
9/28/2021	<0.002	<0.002	<0.002	<0.002		<0.002	<0.002	
2/2/2022	<0.002	<0.002			<0.002			<0.002
2/3/2022			<0.002	<0.002		<0.002	<0.002	
8/24/2022				<0.002	<0.002	<0.002	<0.002	<0.002
8/25/2022	<0.002	<0.002	<0.002					
1/25/2023	<0.002	<0.002						
1/26/2023				<0.002	<0.002	<0.002	<0.002	<0.002
1/27/2023			<0.002					
8/31/2023								<0.002
9/6/2023	<0.002			<0.002				
9/8/2023		<0.002	<0.002		<0.002	<0.002	<0.002	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

	PZ-63I	PZ-64I	PZ-68D	PZ-74I	PZ-75I
2/4/2022	<0.002				
8/25/2022	<0.002				
10/12/2022		<0.002			
1/30/2023	<0.002	<0.002			
2/1/2023			<0.002		
9/6/2023				<0.002	<0.002
9/8/2023	<0.002	<0.002	<0.002		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWA-12I (bg)	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)
8/31/2016				151	88	138	154	
9/1/2016	142	69						299 (o)
9/6/2016			146					
11/15/2016							123	41
11/16/2016	100	100		69	41	77		
11/17/2016			211					
2/20/2017						170	158	133
2/21/2017	71	37	151	68	<25			
6/12/2017				161		132	142	61
6/13/2017		84	130		53			
6/14/2017	140							
9/26/2017	149	68	160	167	45	108	138	29
2/13/2018				165	63	141	150	61
2/14/2018	137	138	194					
6/26/2018	142	90	221	188	71	133	154	71
7/31/2018	133	83						
12/18/2018	135	85	208	145 (X)	78 (X)	138 (X)	147	70 (X)
3/19/2019	132 (JX)	82 (JX)	161 (JX)	146.5 (D)	68	130	146	72
10/15/2019	134	89	124	140	66	175	144	63
3/3/2020	115	72		155	41	<10	130	54
3/4/2020			118					
9/15/2020	95	60	109	116	69	100	116	79
3/1/2021				98				39
3/2/2021	93	43	105		43	80	96	
9/21/2021	117	56				108	104	
9/22/2021			128	129	66			62
2/1/2022	114	63	130	126	72	129	124	61
8/23/2022	104	55	103	117	45	107	101	52
1/24/2023	114	59	102	93	63	124	104	64
8/25/2023			70		36		73	
8/28/2023				81		80		30

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
9/6/2016				505				
9/8/2016	460	478	654		607			
11/17/2016	611							
11/18/2016		503						
11/21/2016			819	515	695			
2/21/2017	497	380						
2/22/2017			721	504	635			
6/13/2017	474	354						
6/14/2017			661	536	635			
9/27/2017	457	376	518	432	601			
2/14/2018	431	503 (JX)	487	448	628			
3/6/2018						346	2200	
3/15/2018								2440
5/1/2018						374	2080 (D)	2190
6/26/2018	414							
6/27/2018		458 (X)	648 (X)		2280		31 (OX)	
6/28/2018				494		333		2290
7/31/2018						393		
8/1/2018							2190	2360
8/23/2018						350	2160	
9/19/2018						353	2160	
10/29/2018						329	2130	2300
11/28/2018						358	2320	2300
12/18/2018	401		407	715				
12/19/2018					605		2060	2190
12/20/2018		344				322		
1/16/2019								2270
3/19/2019		334 (JX)					2050 (JX)	
3/20/2019	410.5 (D)		391	885	564	302		2280
10/15/2019	380							
10/16/2019			2030				2220	2280
12/3/2019						362		
12/4/2019		422		612	526			
3/4/2020	330	326	391				2140	2270
3/5/2020				681	489	297		
9/15/2020	272		281					
9/16/2020		301		634	428	275	2090	
9/17/2020								1910
3/2/2021	280					264	1680	
3/3/2021		288	515	690				
3/4/2021					350			1520
9/23/2021						277	1770	
9/27/2021								1800
9/28/2021	270	262	457	1050	375			
2/2/2022	283			1110	443	276	1850	
2/3/2022			419					1850
2/4/2022		301						
8/23/2022	315						2060	
8/24/2022			383	1540				1990
8/25/2022		311			437	248		
1/24/2023					425			
1/25/2023		260				251		2040

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
1/26/2023	339		419	1680			2010	
8/25/2023				1920	412			
8/30/2023	354	309	418			242	1970	2180

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWC-52I	PZ-44	PZ-50D	PZ-51D	PZ-51I	PZ-58I	PZ-60I	PZ-61I
3/6/2018		191						
5/1/2018		189						
8/3/2018					1900			
8/10/2018	344							
8/23/2018	333							
9/19/2018	364							
10/29/2018	334							
11/28/2018	357							
12/20/2018	355							
1/17/2019	347							
1/19/2019					1660			
2/13/2019	350							
3/20/2019	360 (D)							
10/16/2019	346							
10/18/2019					1550			
3/4/2020	351							
9/17/2020	329				1600			
10/27/2020			914	680	1200			
3/3/2021				598				
3/4/2021	383				830			
3/5/2021			1210					
9/27/2021					1560			2100
9/28/2021	336	181	1470	650		1120	2600	
2/2/2022	160	181			1590			1970
2/3/2022			1380	686		1170	2480	
8/24/2022				715	1740	1380	2830	2400
8/25/2022	296	167	1750					
1/25/2023	276	156						
1/26/2023				693	1750	1440	2880	2280
1/27/2023			1400					
8/25/2023								2220
8/29/2023					1860	1570	2880	
8/30/2023	281	184	1360	638				

Time Series

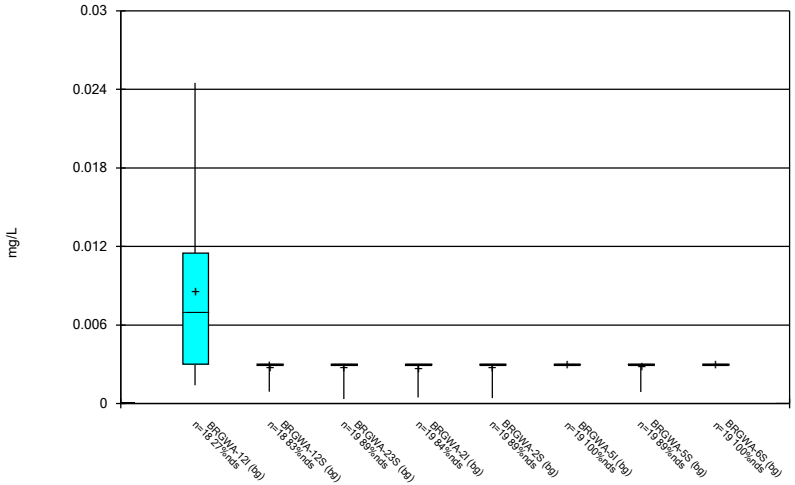
Constituent: Total Dissolved Solids (mg/L) Analysis Run 10/24/2023 1:02 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

	PZ-63I	PZ-64I	PZ-68D	PZ-74I	PZ-75I
2/4/2022	403				
8/25/2022	419				
10/12/2022		3780			
1/30/2023	448	4260			
2/1/2023			525		
8/29/2023	503	4640			
8/30/2023			597	506	430

FIGURE B.

Sanitas™ v.10.0.13 . UG

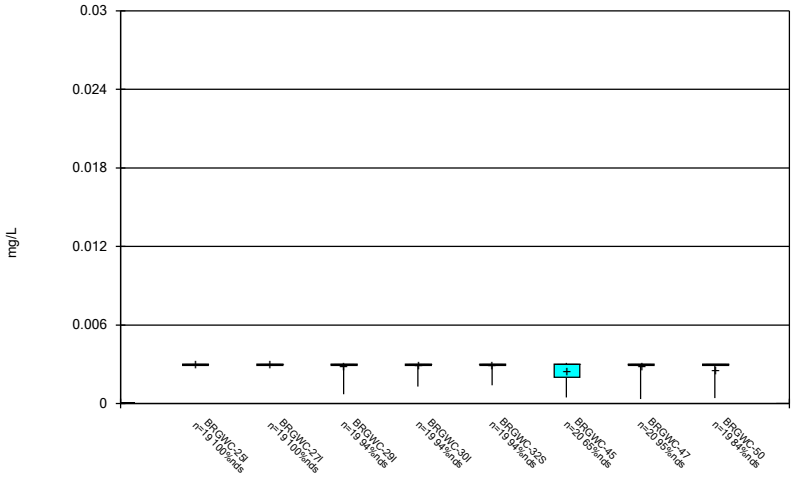
Box & Whiskers Plot



Constituent: Antimony Analysis Run 10/24/2023 1:03 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

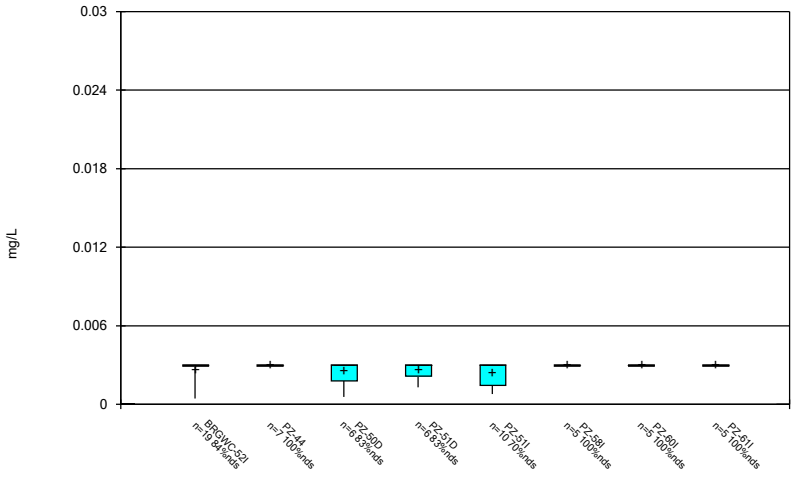
Box & Whiskers Plot



Constituent: Antimony Analysis Run 10/24/2023 1:03 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

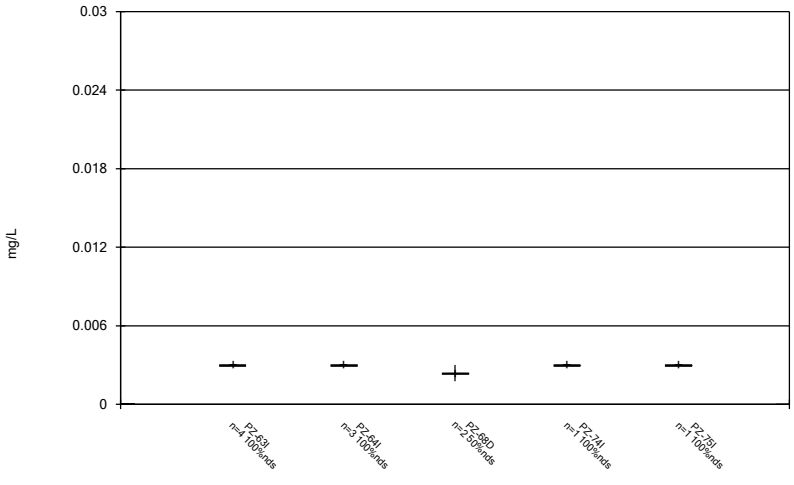
Box & Whiskers Plot



Constituent: Antimony Analysis Run 10/24/2023 1:03 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

Box & Whiskers Plot



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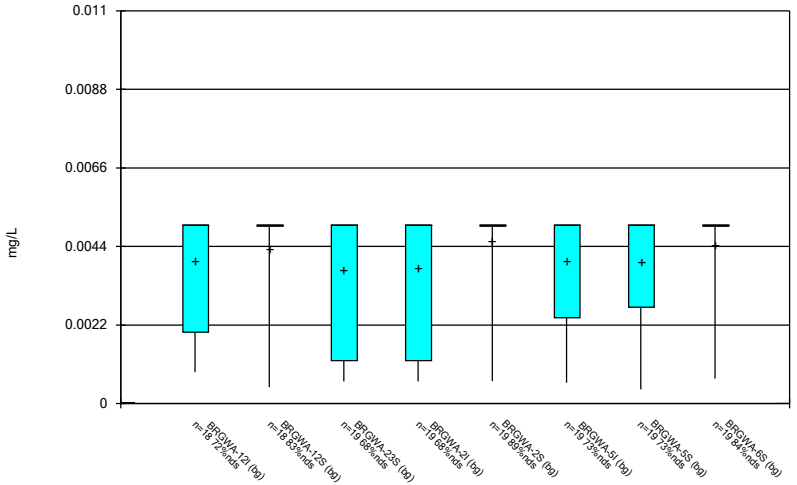
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

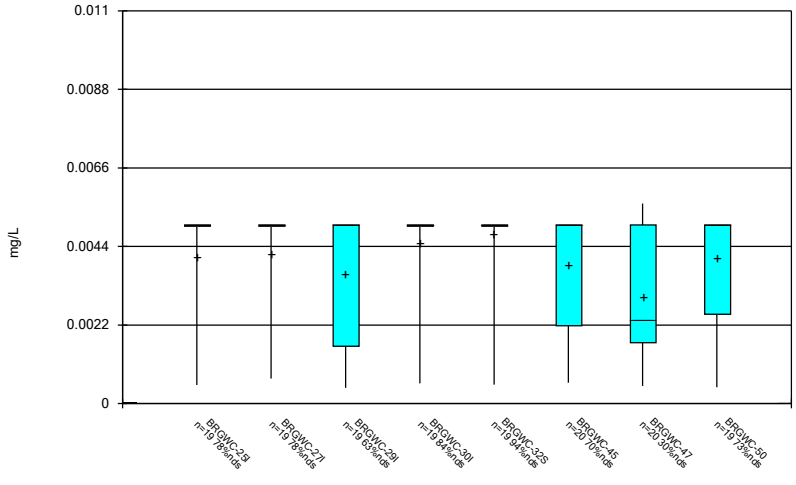
Box & Whiskers Plot



Constituent: Arsenic Analysis Run 10/24/2023 1:03 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

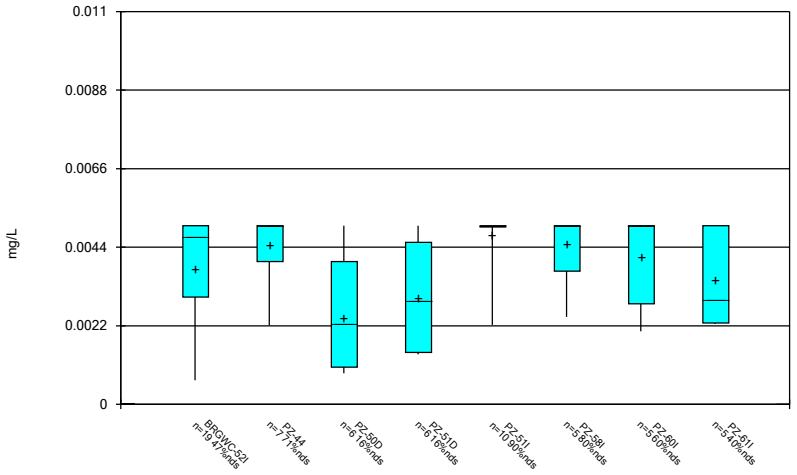
Box & Whiskers Plot



Constituent: Arsenic Analysis Run 10/24/2023 1:03 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

Box & Whiskers Plot



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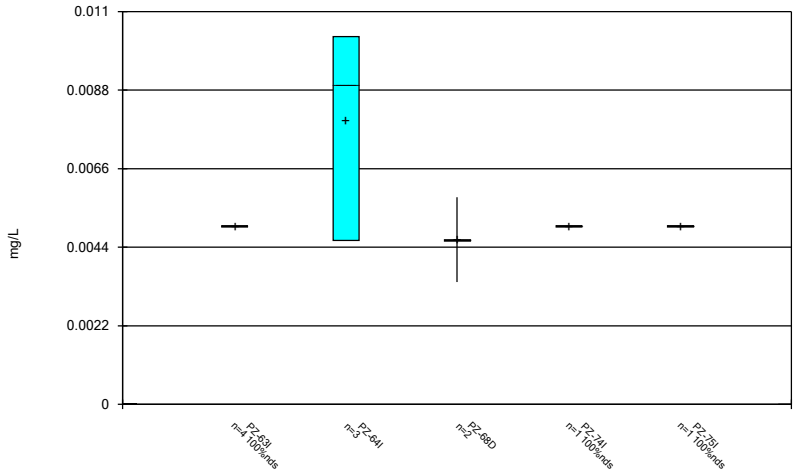
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

Box & Whiskers Plot



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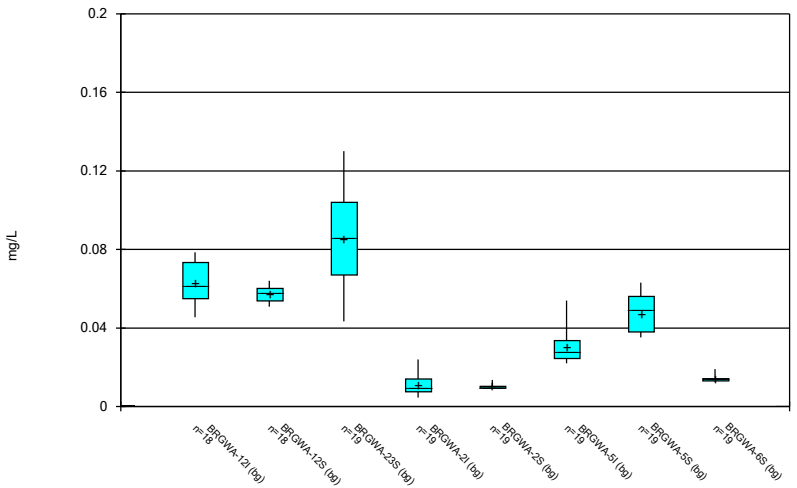
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

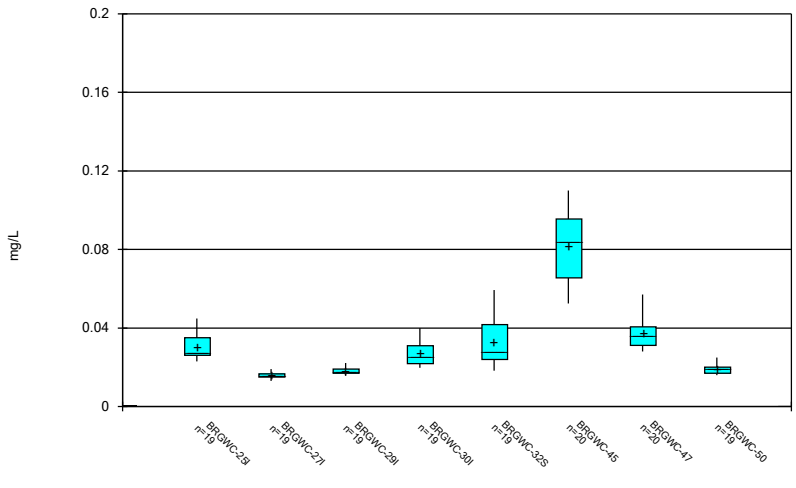
Box & Whiskers Plot



Constituent: Barium Analysis Run 10/24/2023 1:03 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

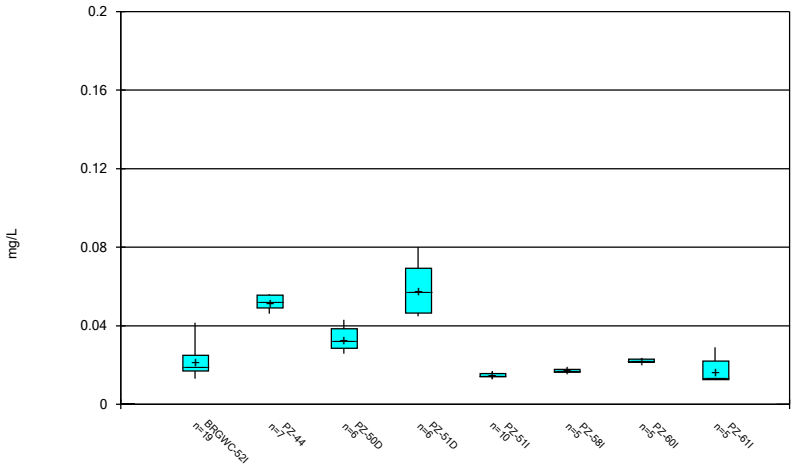
Box & Whiskers Plot



Constituent: Barium Analysis Run 10/24/2023 1:03 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

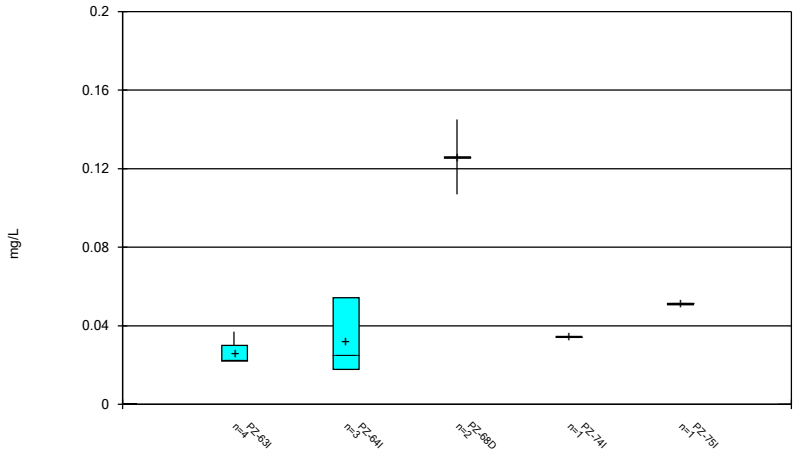
Box & Whiskers Plot



Constituent: Barium Analysis Run 10/24/2023 1:03 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

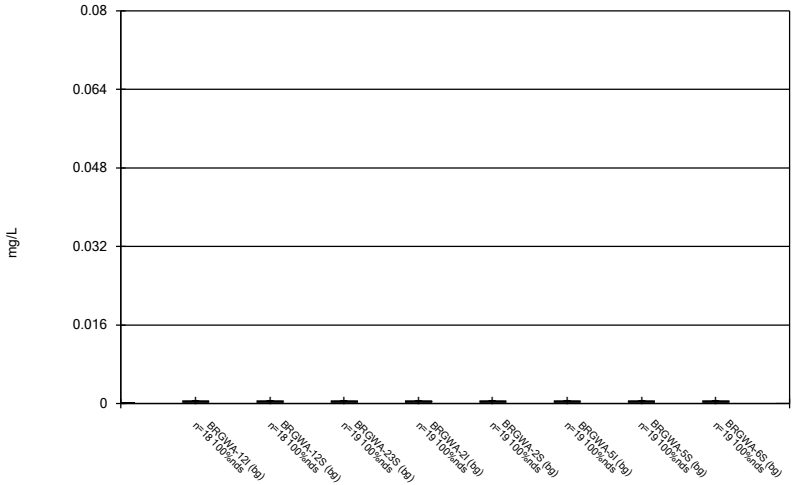
Box & Whiskers Plot



Constituent: Barium Analysis Run 10/24/2023 1:03 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

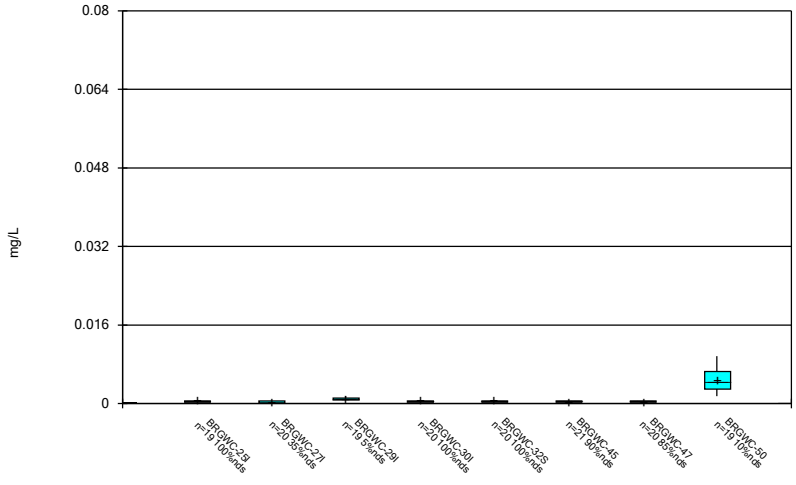
Box & Whiskers Plot



Constituent: Beryllium Analysis Run 10/24/2023 1:03 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

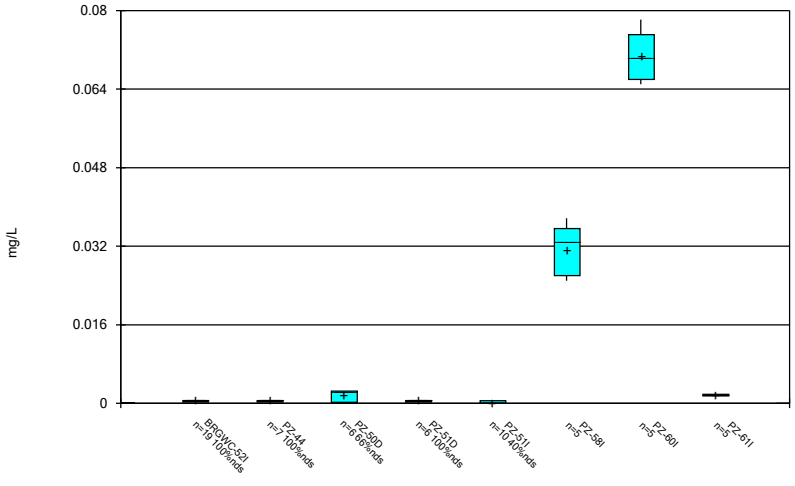
Box & Whiskers Plot



Constituent: Beryllium Analysis Run 10/24/2023 1:04 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

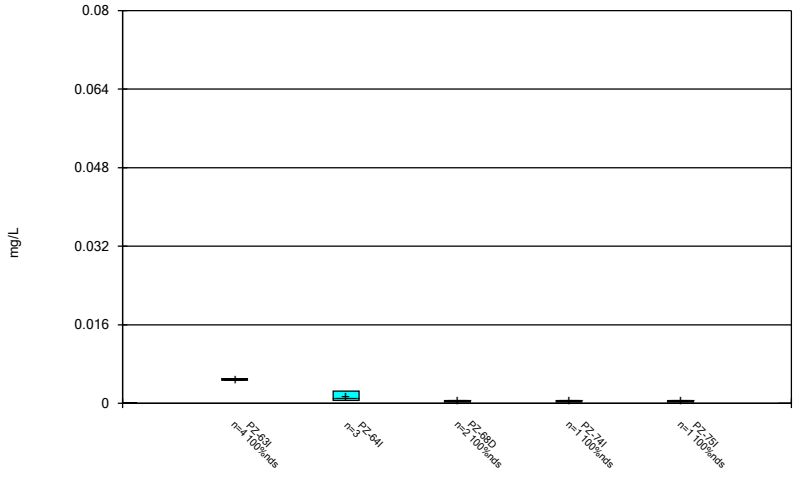
Box & Whiskers Plot



Constituent: Beryllium Analysis Run 10/24/2023 1:04 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

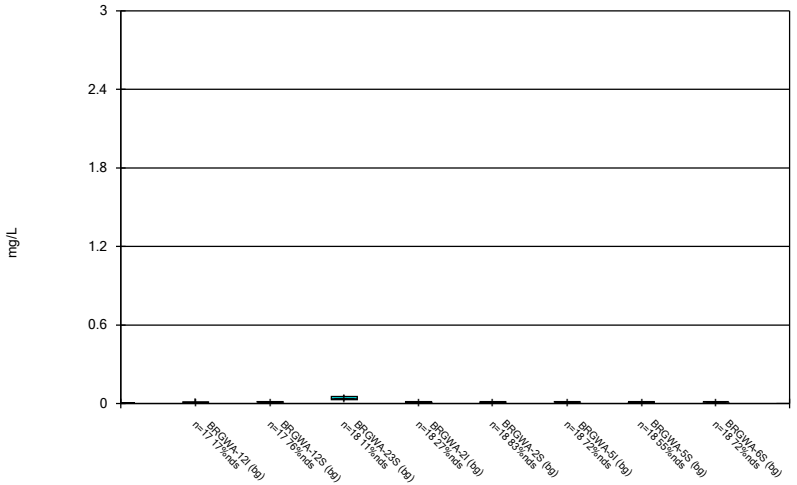
Sanitas™ v.10.0.13 . UG

Box & Whiskers Plot



Constituent: Beryllium Analysis Run 10/24/2023 1:04 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

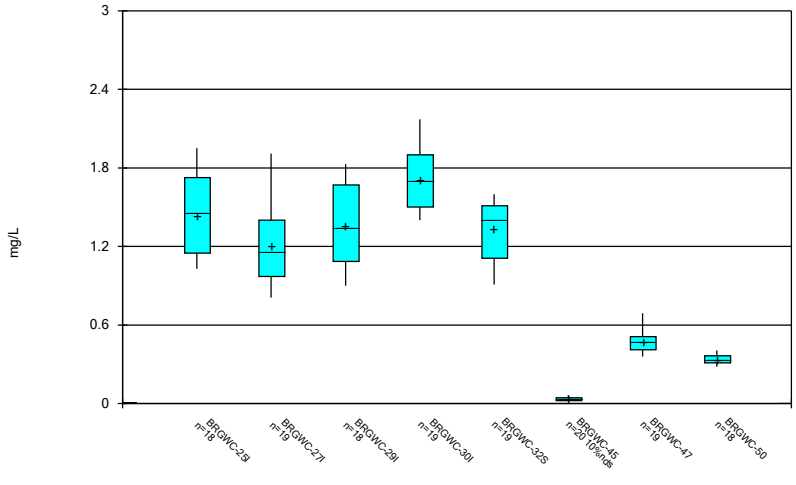
Box & Whiskers Plot



Constituent: Boron Analysis Run 10/24/2023 1:04 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

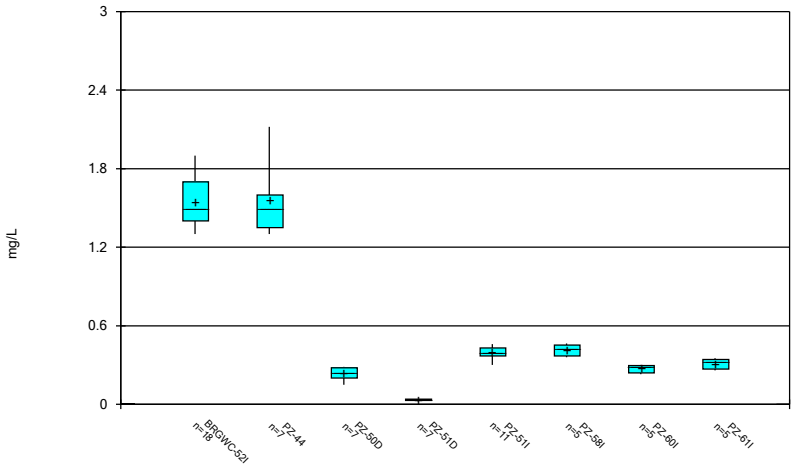
Box & Whiskers Plot



Constituent: Boron Analysis Run 10/24/2023 1:04 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

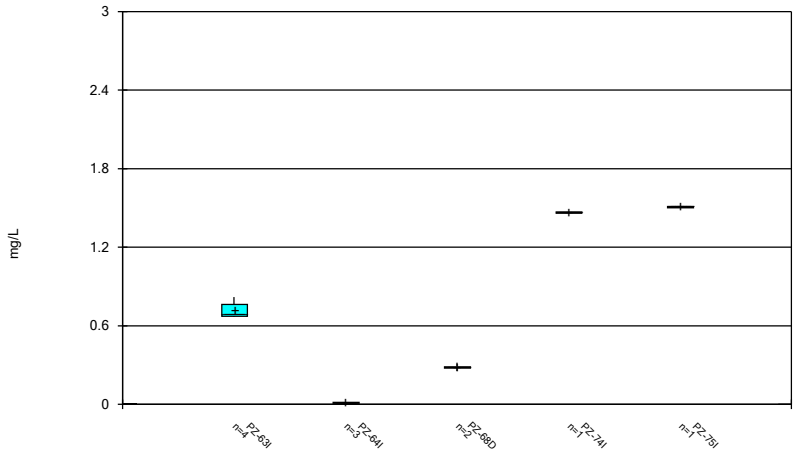
Box & Whiskers Plot



Constituent: Boron Analysis Run 10/24/2023 1:04 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

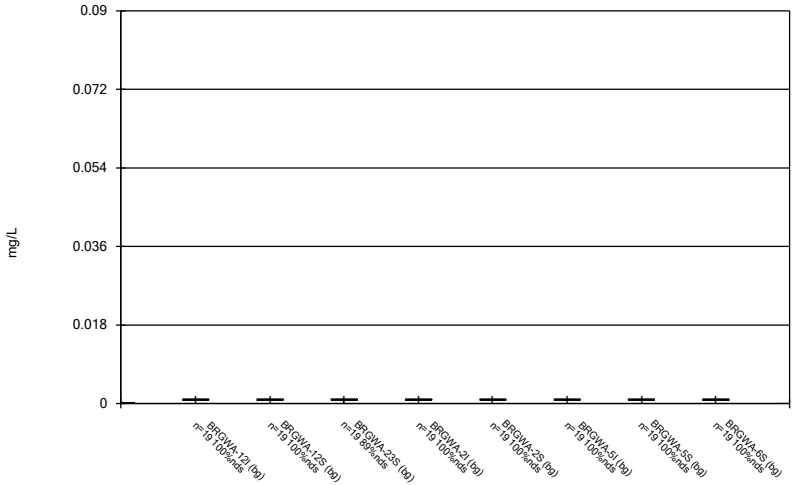
Box & Whiskers Plot



Constituent: Boron Analysis Run 10/24/2023 1:04 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

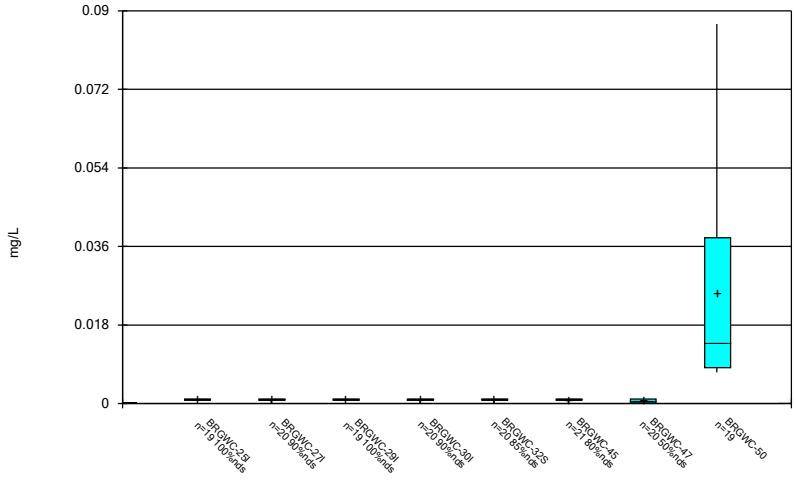
Box & Whiskers Plot



Constituent: Cadmium Analysis Run 10/24/2023 1:04 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

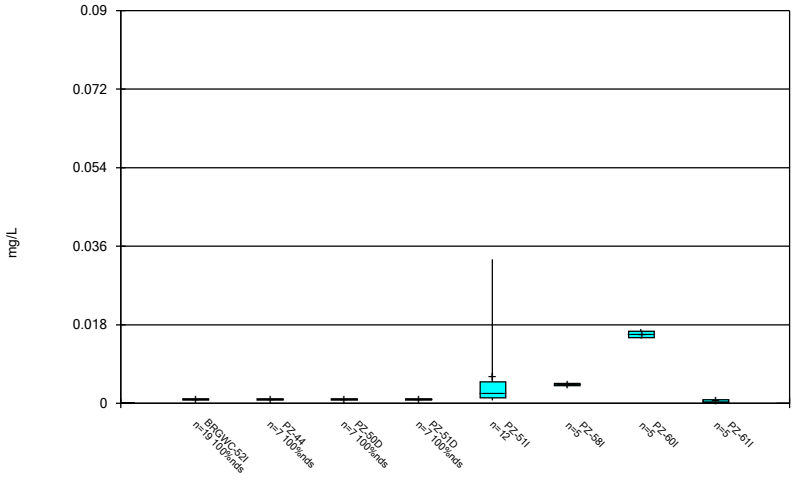
Box & Whiskers Plot



Constituent: Cadmium Analysis Run 10/24/2023 1:04 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

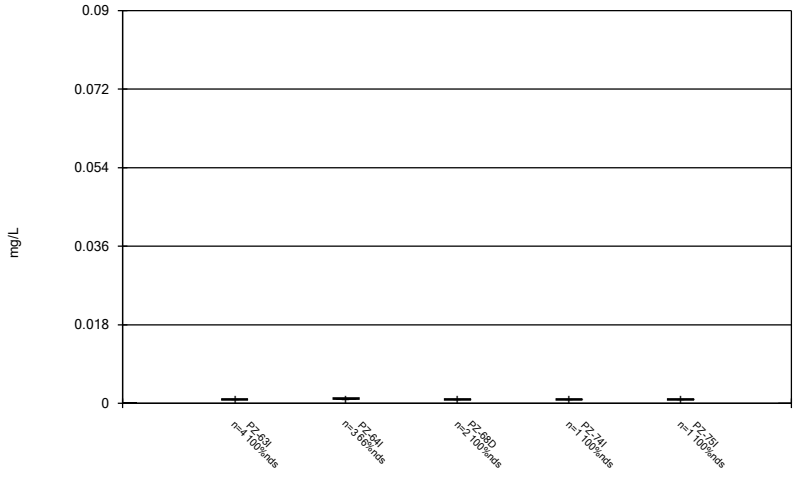
Box & Whiskers Plot



Constituent: Cadmium Analysis Run 10/24/2023 1:04 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

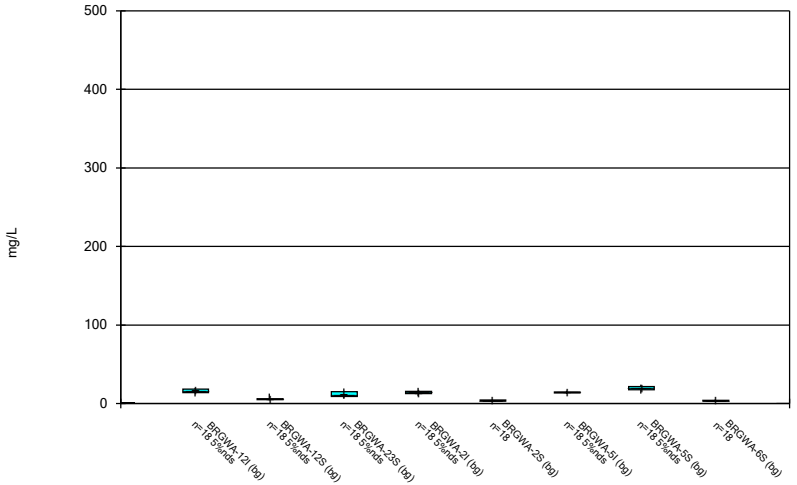
Sanitas™ v.10.0.13 . UG

Box & Whiskers Plot



Constituent: Cadmium Analysis Run 10/24/2023 1:04 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

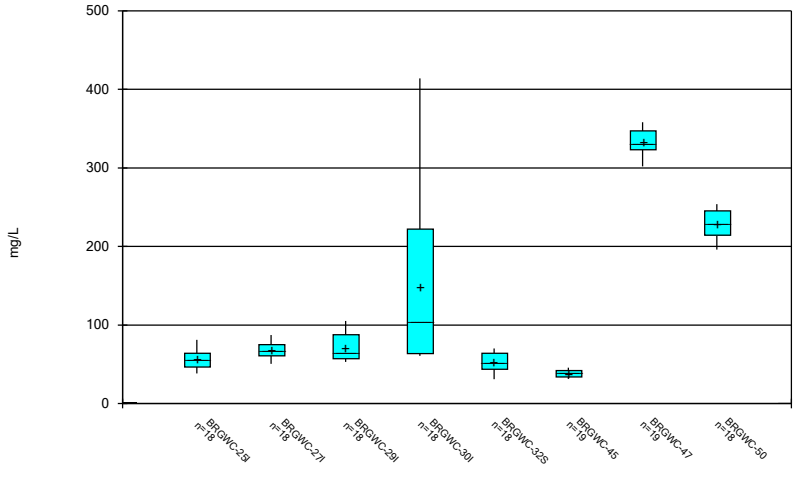
Box & Whiskers Plot



Constituent: Calcium Analysis Run 10/24/2023 1:04 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

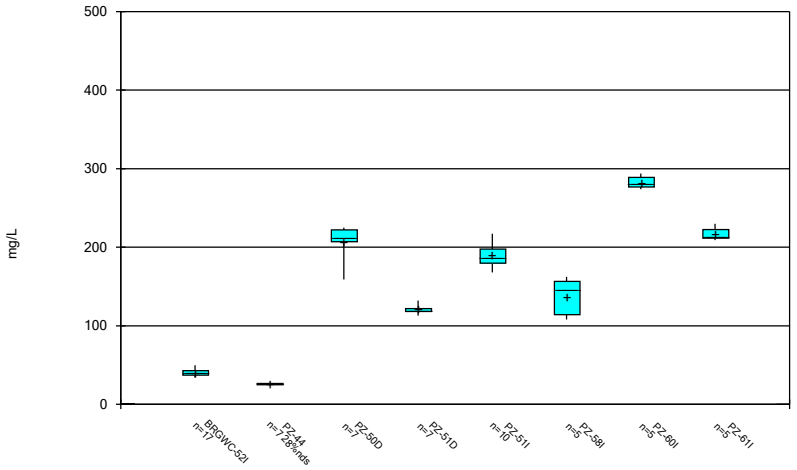
Box & Whiskers Plot



Constituent: Calcium Analysis Run 10/24/2023 1:04 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

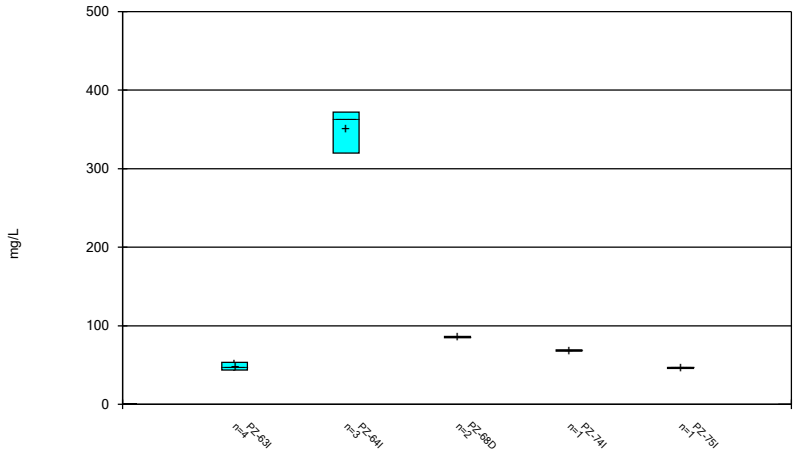
Box & Whiskers Plot



Constituent: Calcium Analysis Run 10/24/2023 1:04 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

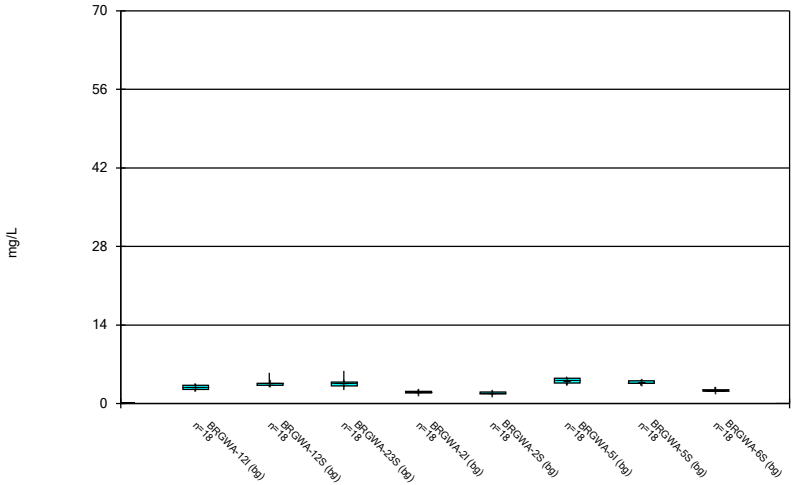
Box & Whiskers Plot



Constituent: Calcium Analysis Run 10/24/2023 1:04 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

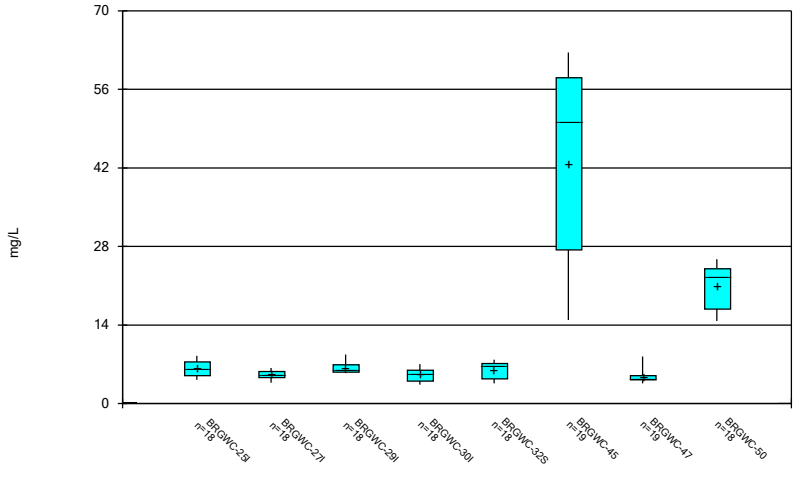
Box & Whiskers Plot



Constituent: Chloride Analysis Run 10/24/2023 1:04 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

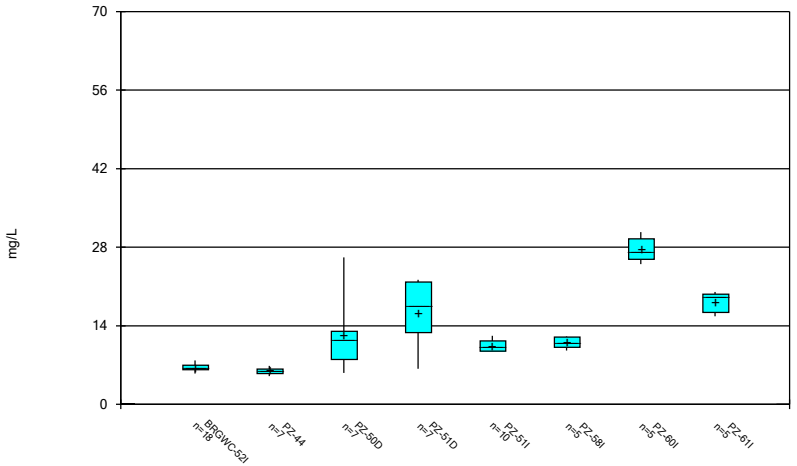
Box & Whiskers Plot



Constituent: Chloride Analysis Run 10/24/2023 1:04 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

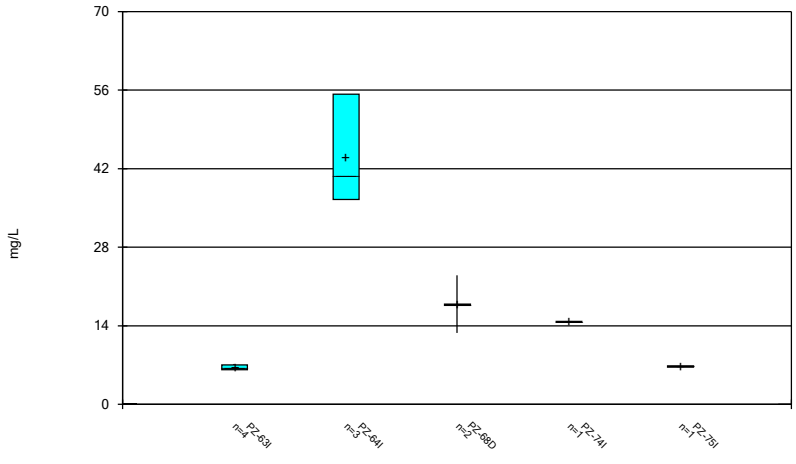
Box & Whiskers Plot



Constituent: Chloride Analysis Run 10/24/2023 1:04 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

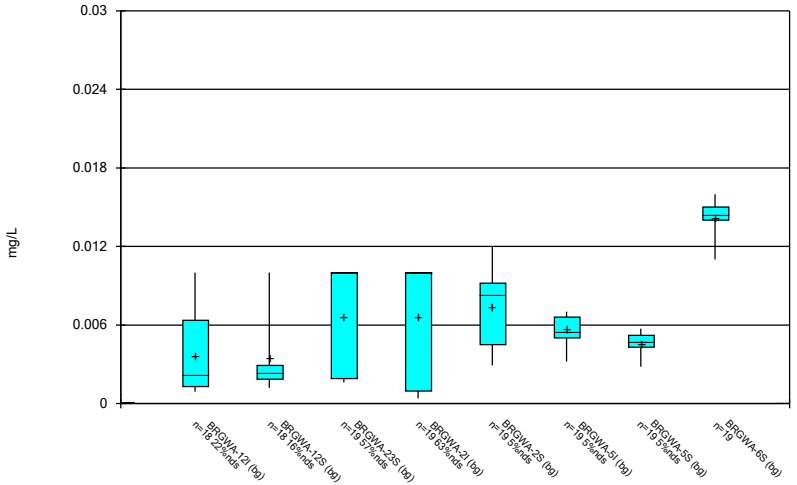
Box & Whiskers Plot



Constituent: Chloride Analysis Run 10/24/2023 1:04 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

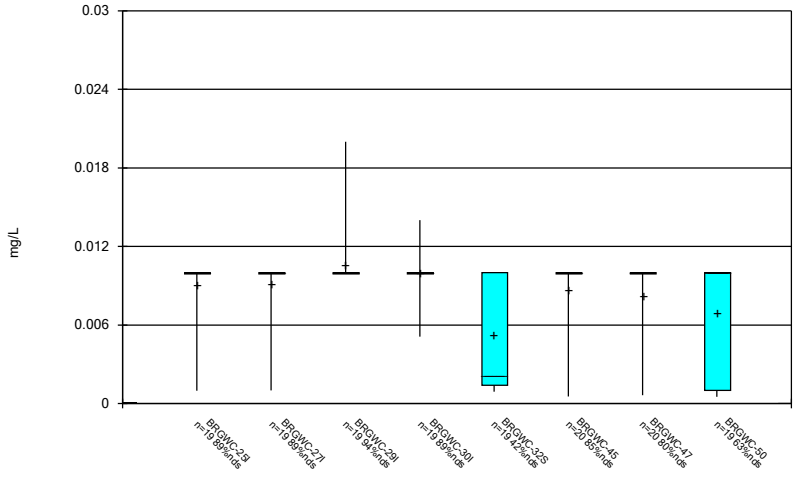
Box & Whiskers Plot



Constituent: Chromium Analysis Run 10/24/2023 1:04 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

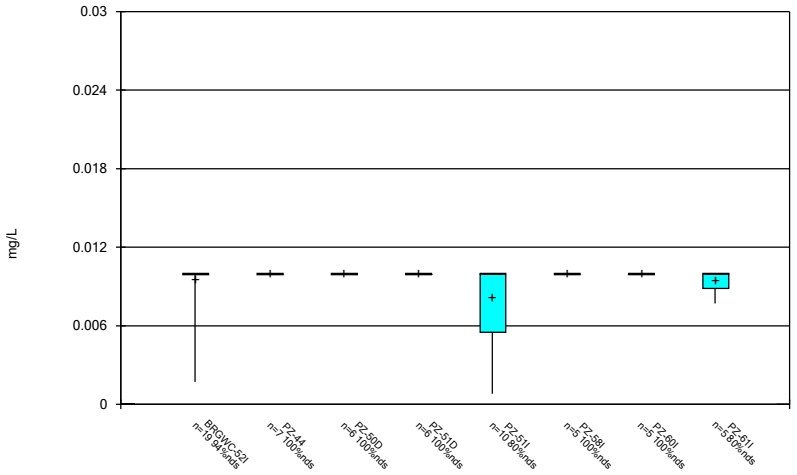
Box & Whiskers Plot



Constituent: Chromium Analysis Run 10/24/2023 1:04 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

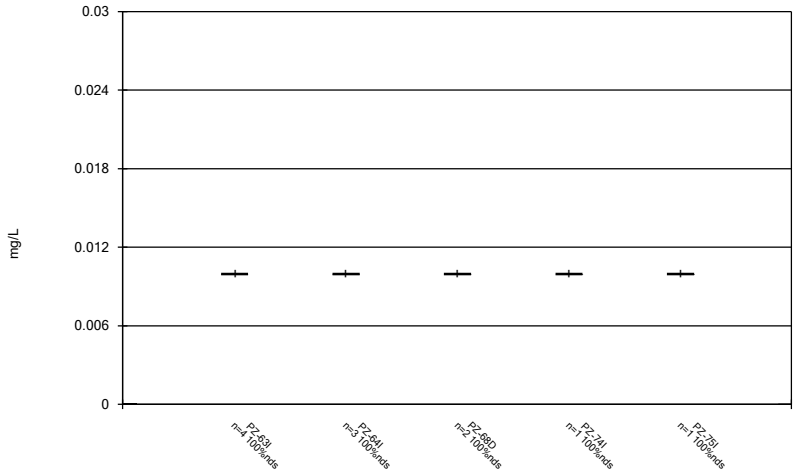
Box & Whiskers Plot



Constituent: Chromium Analysis Run 10/24/2023 1:04 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

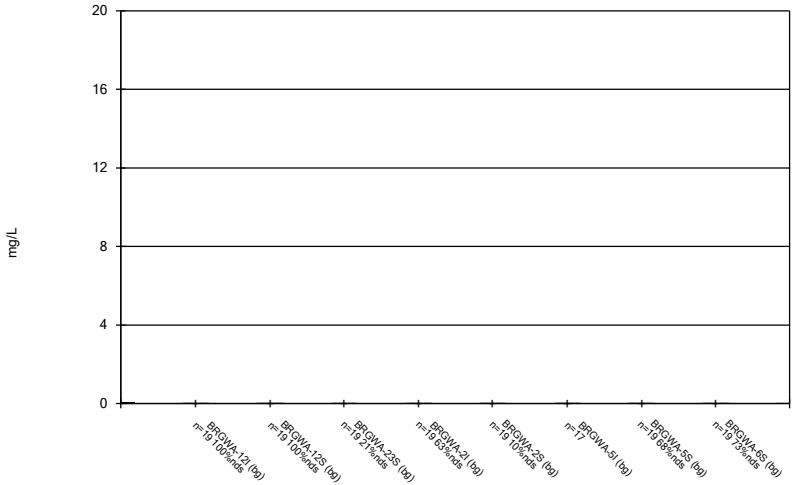
Box & Whiskers Plot



Constituent: Chromium Analysis Run 10/24/2023 1:04 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

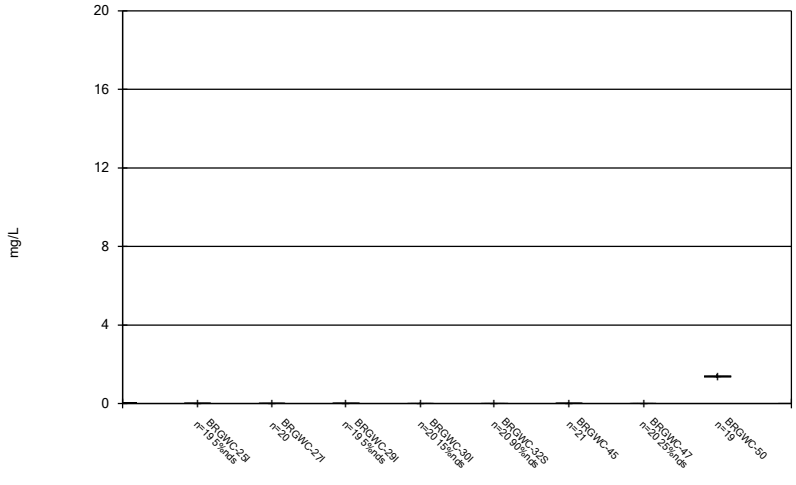
Box & Whiskers Plot



Constituent: Cobalt Analysis Run 10/24/2023 1:04 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

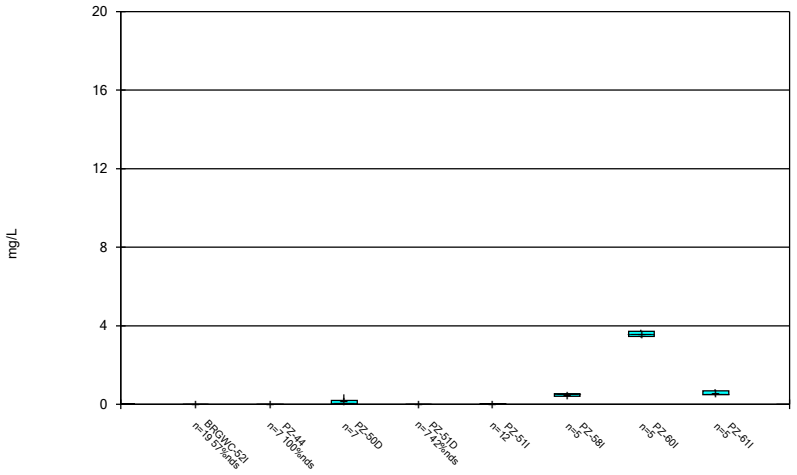
Box & Whiskers Plot



Constituent: Cobalt Analysis Run 10/24/2023 1:04 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

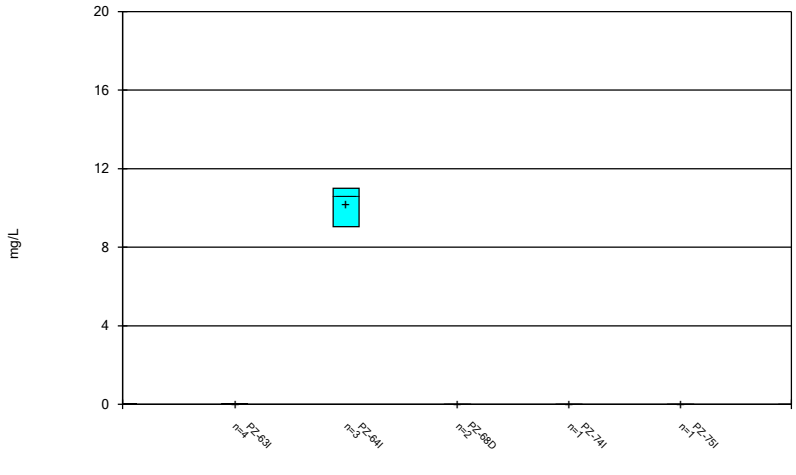
Box & Whiskers Plot



Constituent: Cobalt Analysis Run 10/24/2023 1:04 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

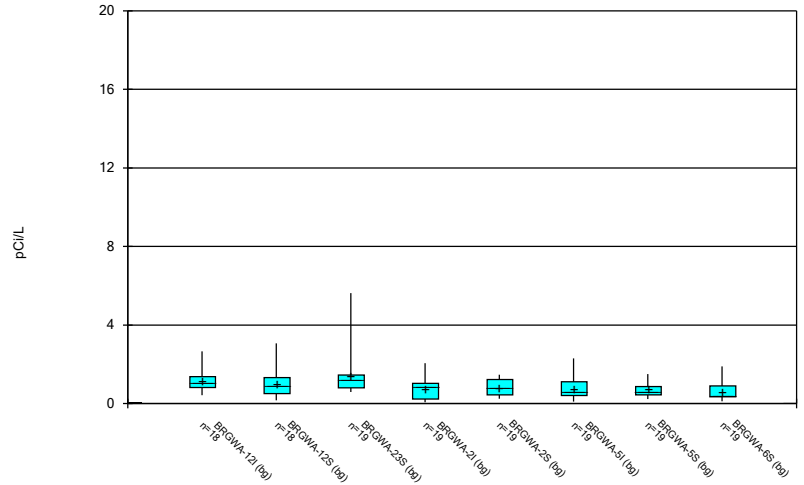
Box & Whiskers Plot



Constituent: Cobalt Analysis Run 10/24/2023 1:04 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

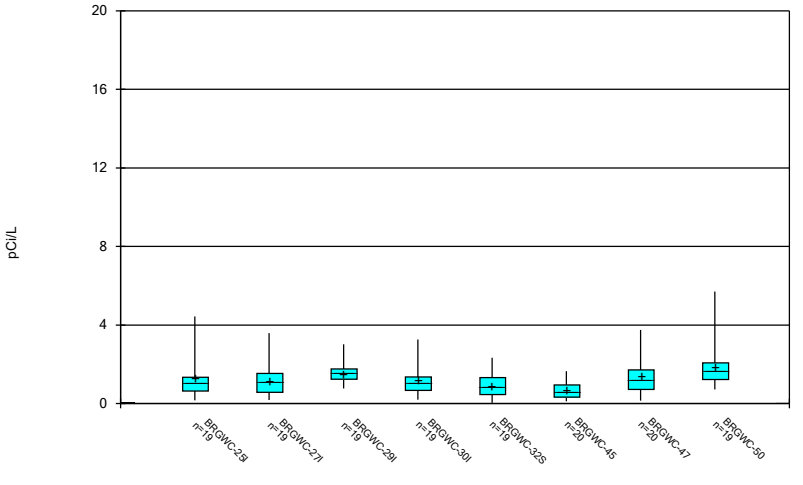
Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 10/24/2023 1:04 PM View: Constituents View - B, Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

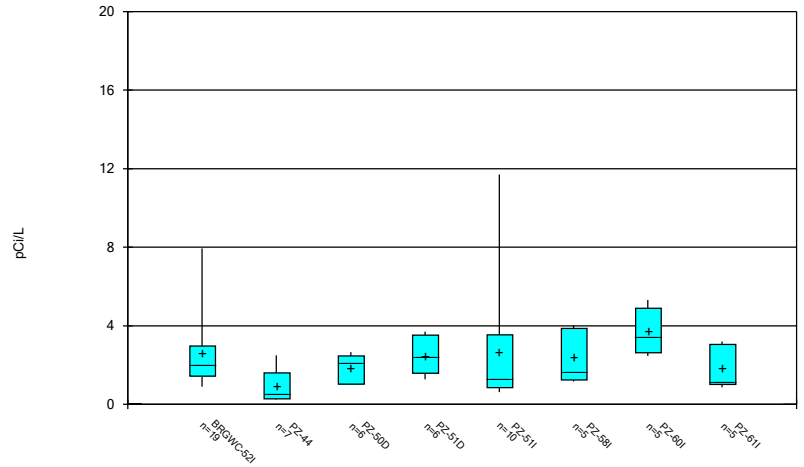
Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 10/24/2023 1:04 PM View: Constituents View - B, Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

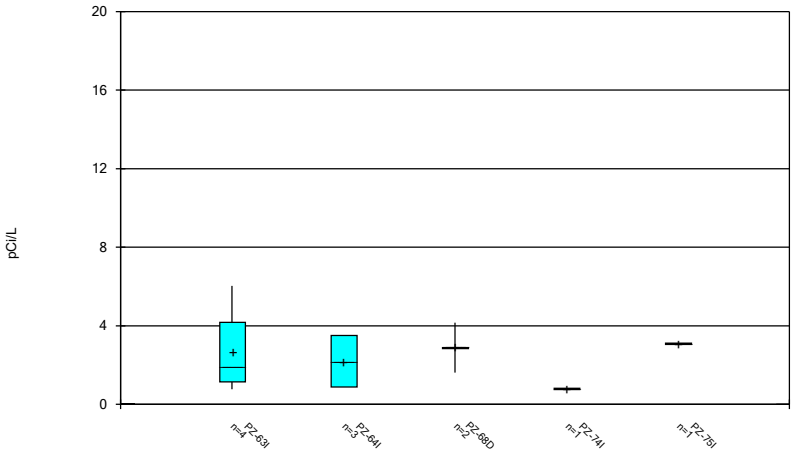
Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 10/24/2023 1:04 PM View: Constituents View - B, Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

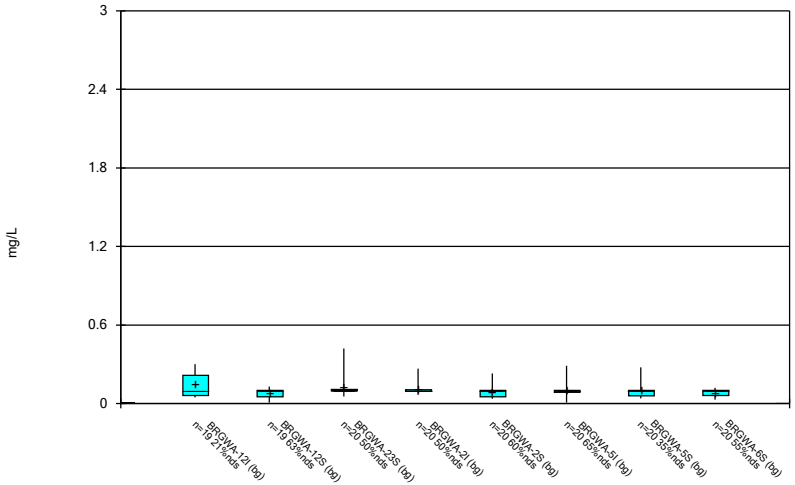
Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 10/24/2023 1:04 PM View: Constituents View - B, Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

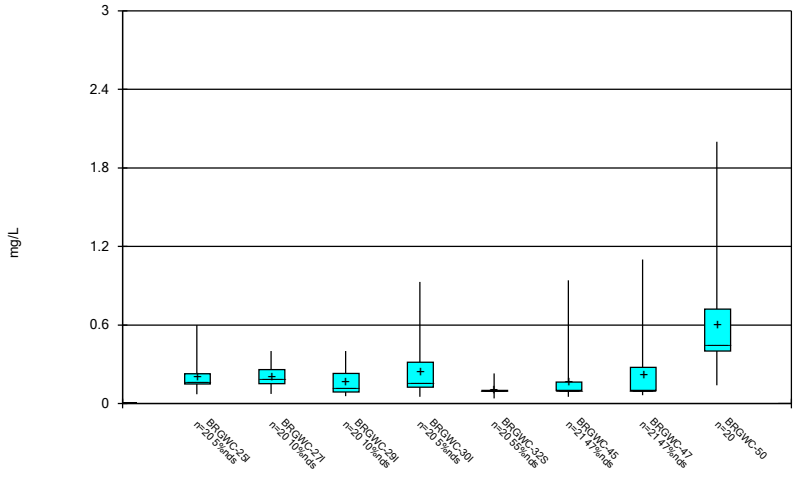
Box & Whiskers Plot



Constituent: Fluoride Analysis Run 10/24/2023 1:04 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

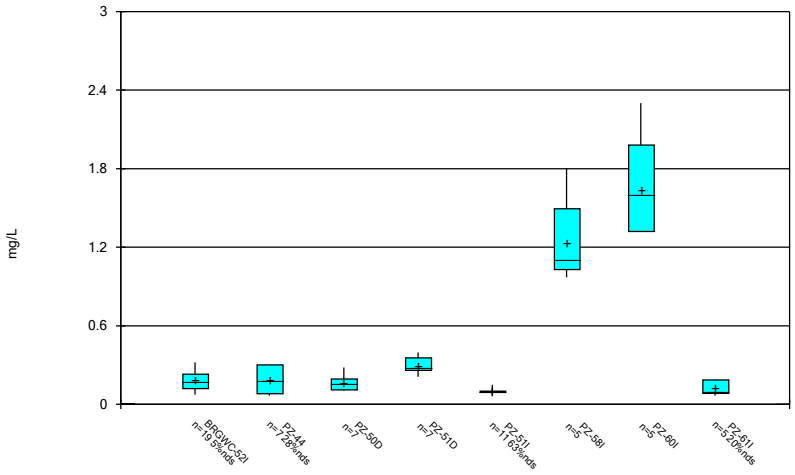
Box & Whiskers Plot



Constituent: Fluoride Analysis Run 10/24/2023 1:04 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

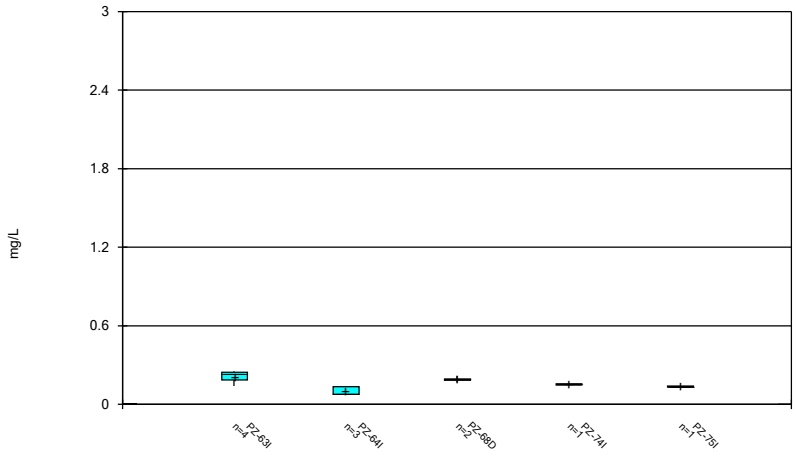
Box & Whiskers Plot



Constituent: Fluoride Analysis Run 10/24/2023 1:04 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

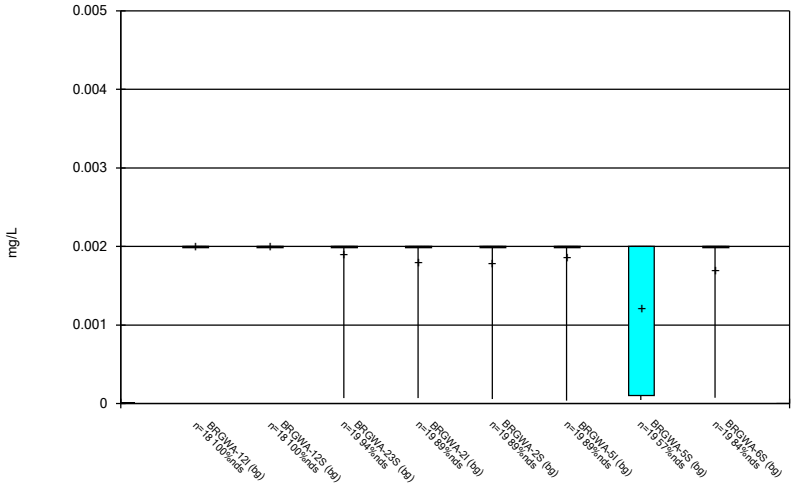
Box & Whiskers Plot



Constituent: Fluoride Analysis Run 10/24/2023 1:04 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

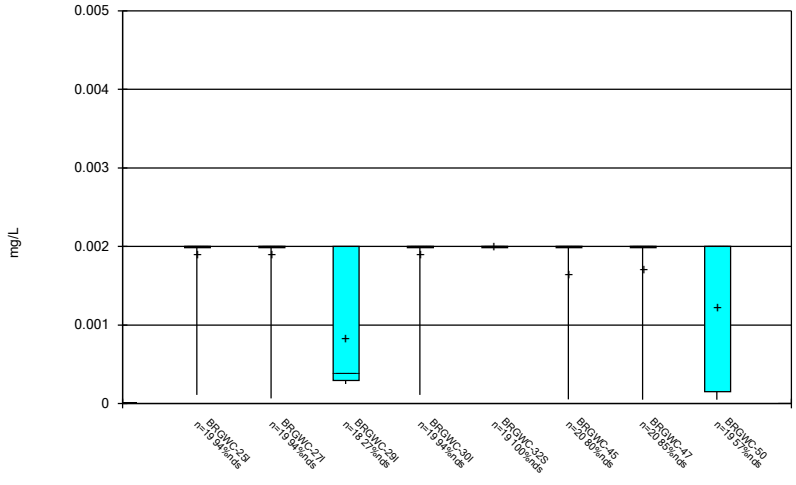
Box & Whiskers Plot



Constituent: Lead Analysis Run 10/24/2023 1:04 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

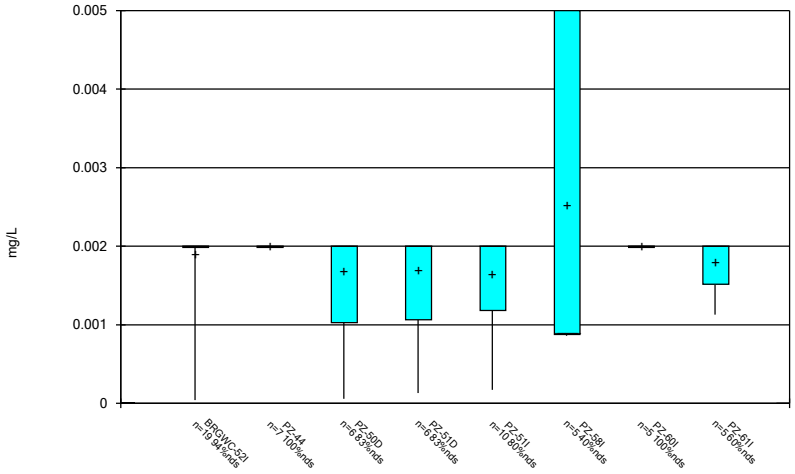
Box & Whiskers Plot



Constituent: Lead Analysis Run 10/24/2023 1:04 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

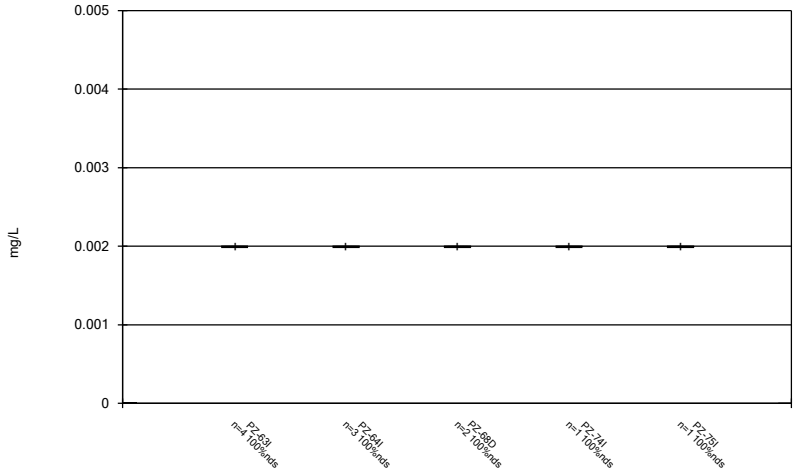
Box & Whiskers Plot



Constituent: Lead Analysis Run 10/24/2023 1:04 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

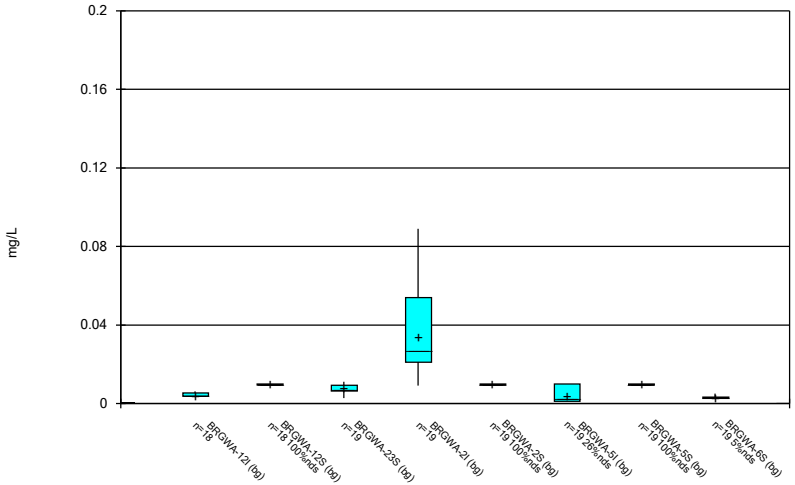
Box & Whiskers Plot



Constituent: Lead Analysis Run 10/24/2023 1:04 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

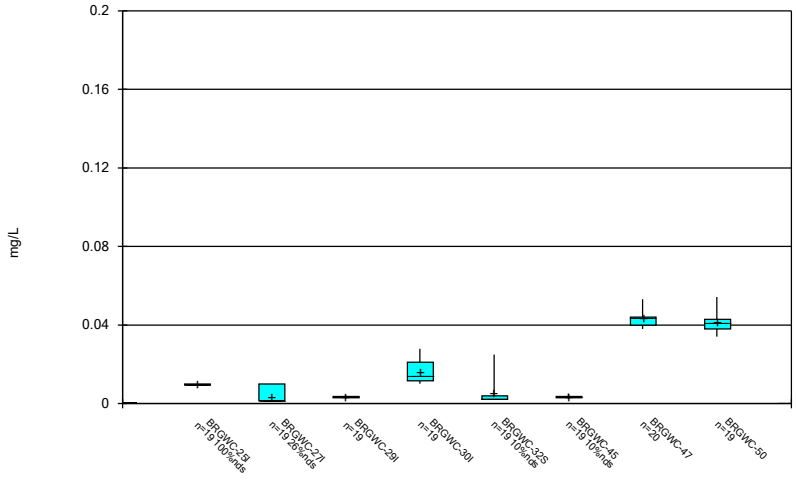
Box & Whiskers Plot



Constituent: Lithium Analysis Run 10/24/2023 1:04 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

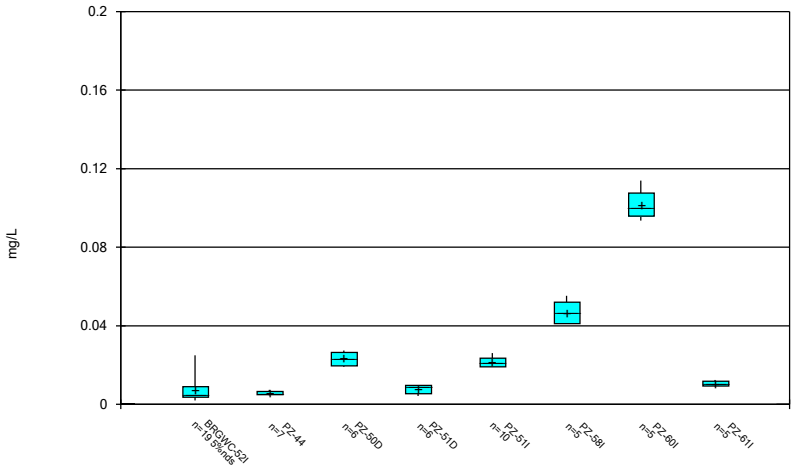
Box & Whiskers Plot



Constituent: Lithium Analysis Run 10/24/2023 1:04 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

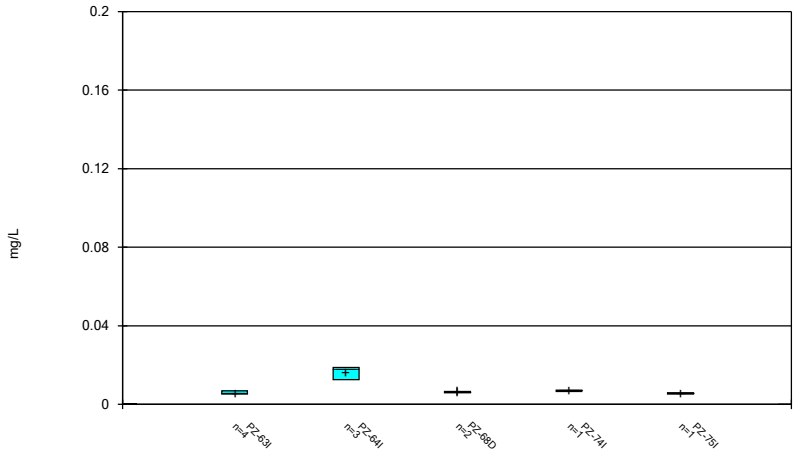
Box & Whiskers Plot



Constituent: Lithium Analysis Run 10/24/2023 1:04 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

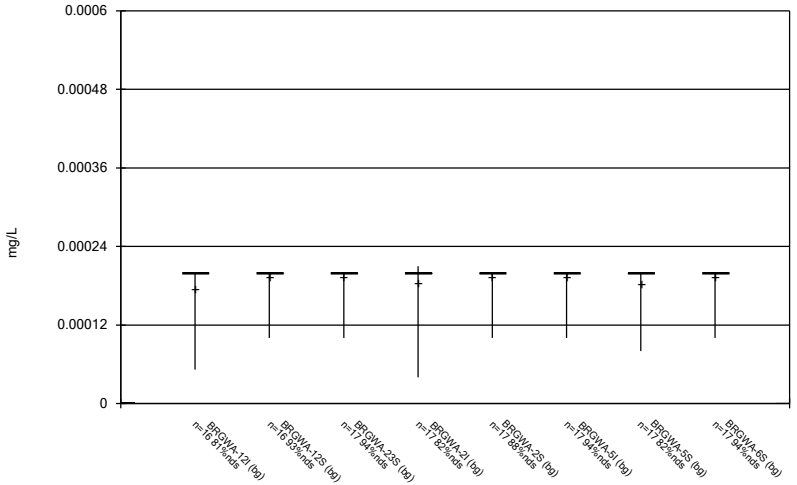
Sanitas™ v.10.0.13 . UG

Box & Whiskers Plot



Constituent: Lithium Analysis Run 10/24/2023 1:04 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

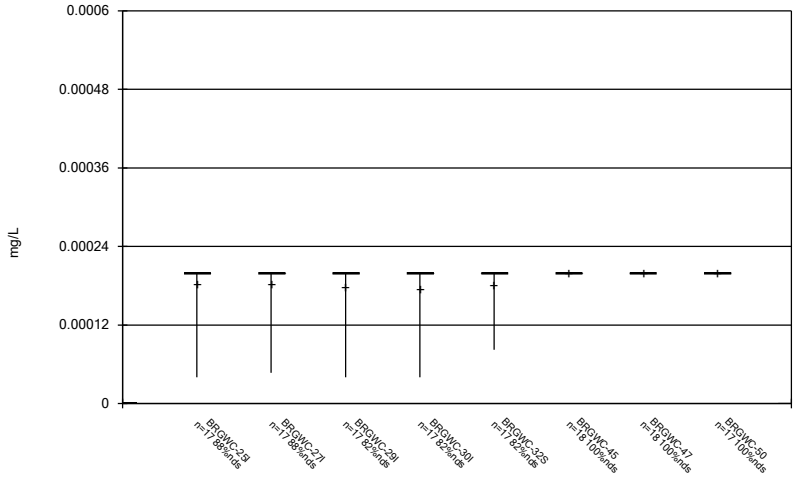
Box & Whiskers Plot



Constituent: Mercury Analysis Run 10/24/2023 1:04 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

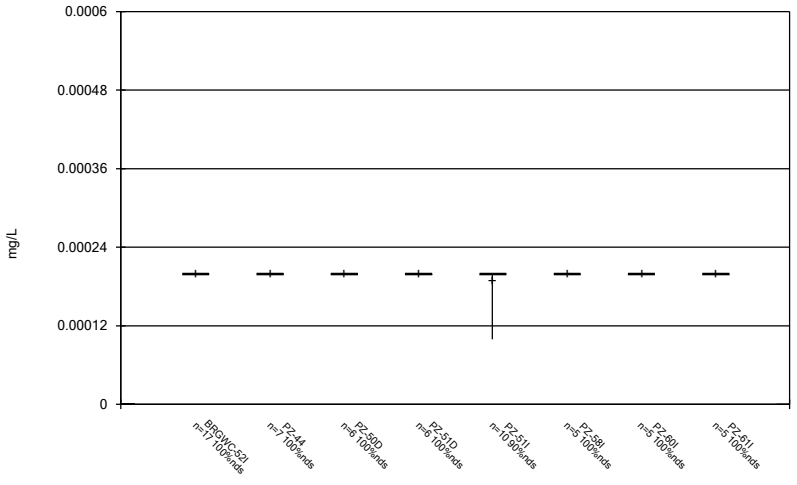
Box & Whiskers Plot



Constituent: Mercury Analysis Run 10/24/2023 1:04 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

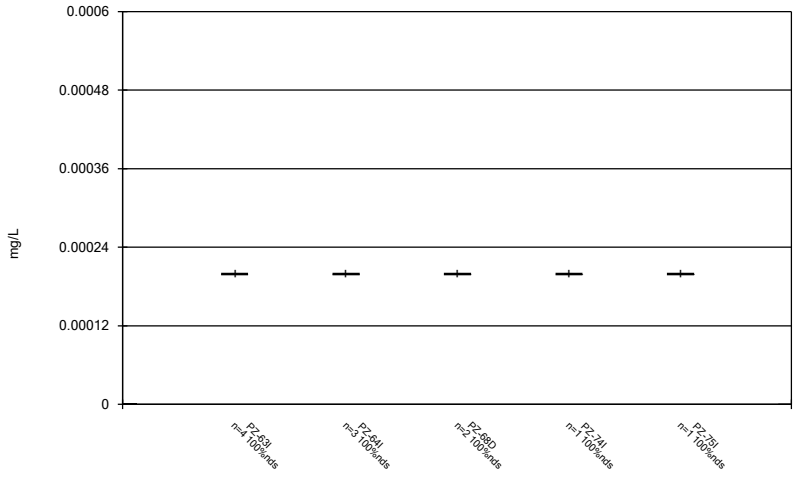
Box & Whiskers Plot



Constituent: Mercury Analysis Run 10/24/2023 1:04 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

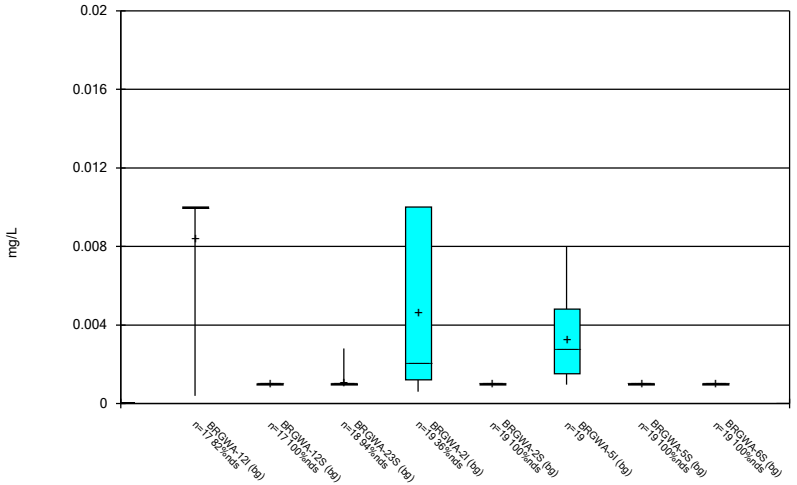
Sanitas™ v.10.0.13 . UG

Box & Whiskers Plot



Constituent: Mercury Analysis Run 10/24/2023 1:04 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

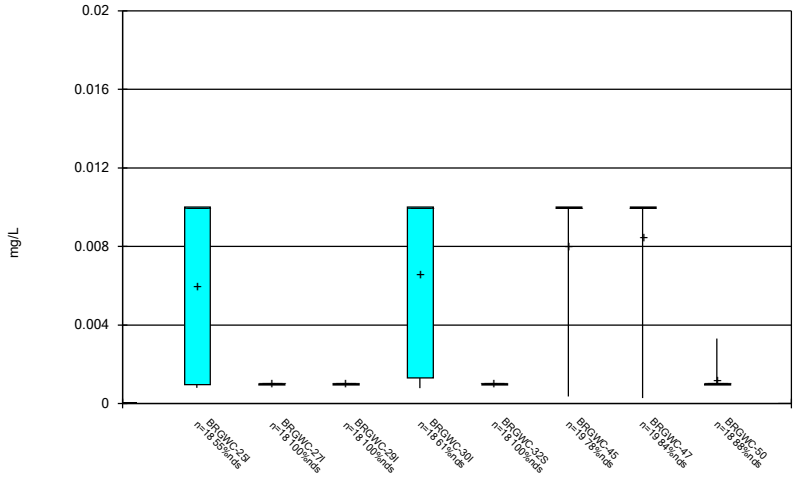
Box & Whiskers Plot



Constituent: Molybdenum Analysis Run 10/24/2023 1:04 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

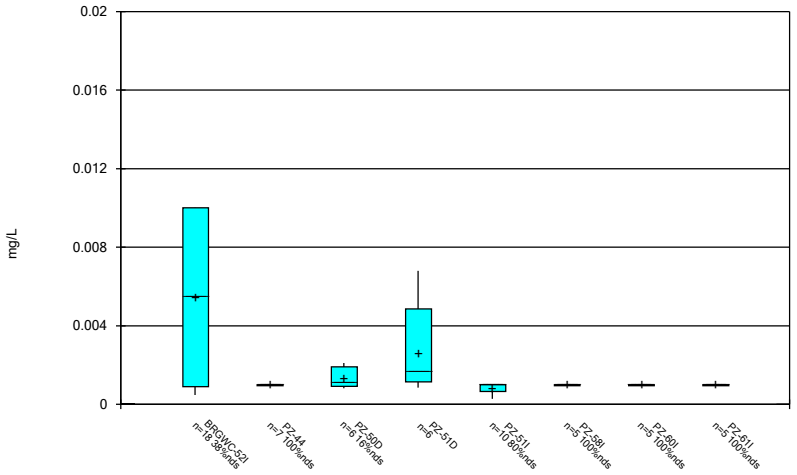
Box & Whiskers Plot



Constituent: Molybdenum Analysis Run 10/24/2023 1:04 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

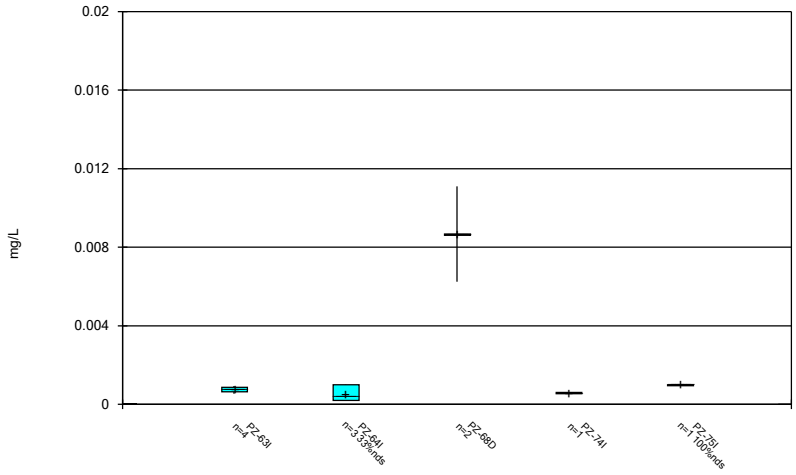
Box & Whiskers Plot



Constituent: Molybdenum Analysis Run 10/24/2023 1:04 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

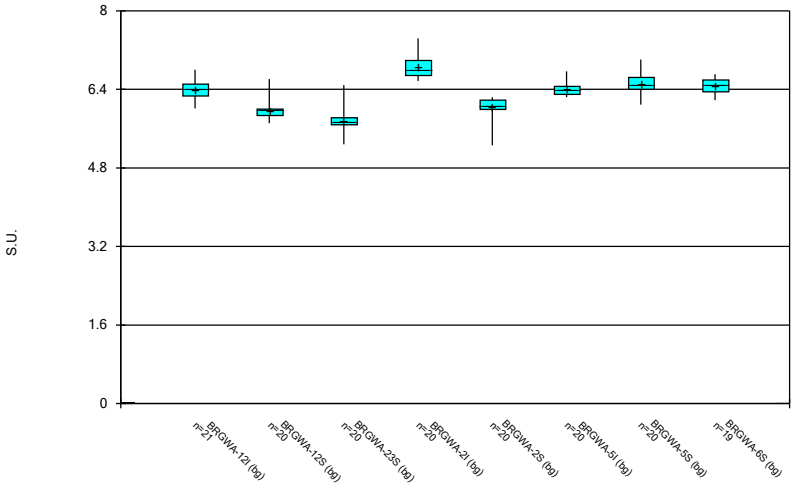
Box & Whiskers Plot



Constituent: Molybdenum Analysis Run 10/24/2023 1:04 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

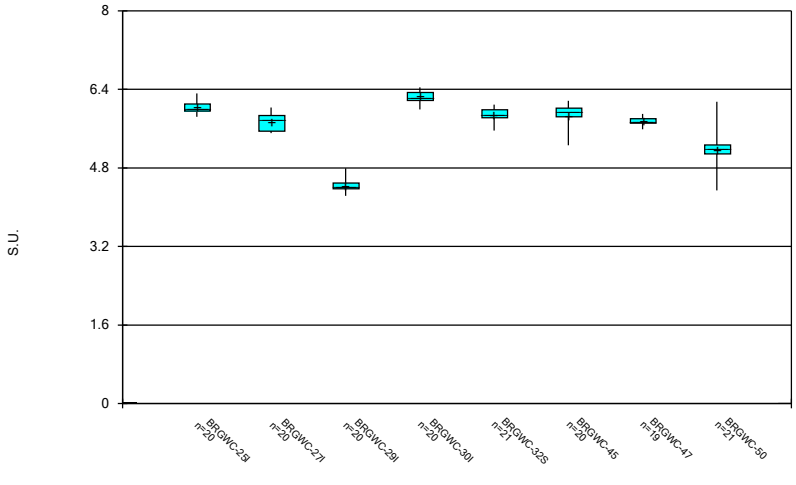
Box & Whiskers Plot



Constituent: pH, Field Analysis Run 10/24/2023 1:04 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

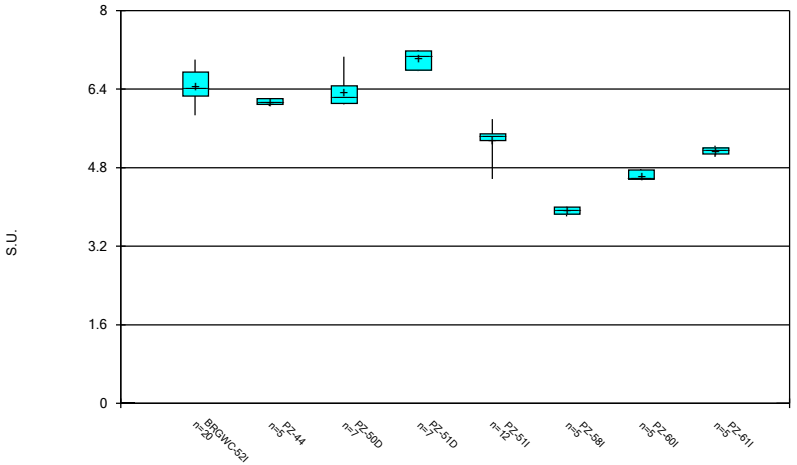
Box & Whiskers Plot



Constituent: pH, Field Analysis Run 10/24/2023 1:04 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

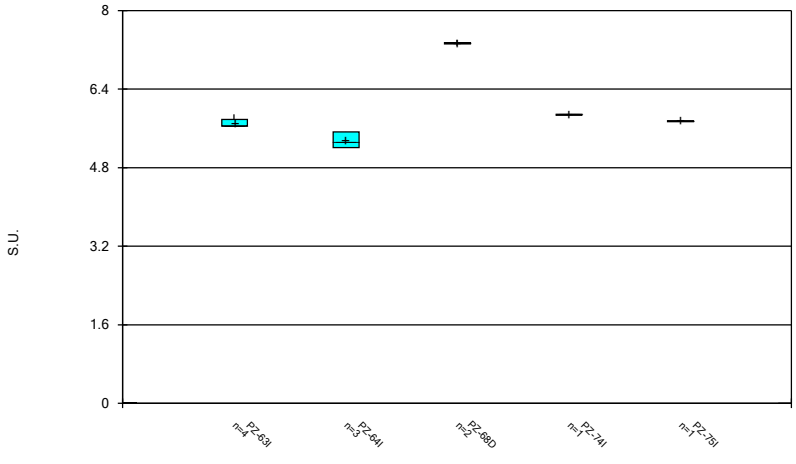
Box & Whiskers Plot



Constituent: pH, Field Analysis Run 10/24/2023 1:04 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

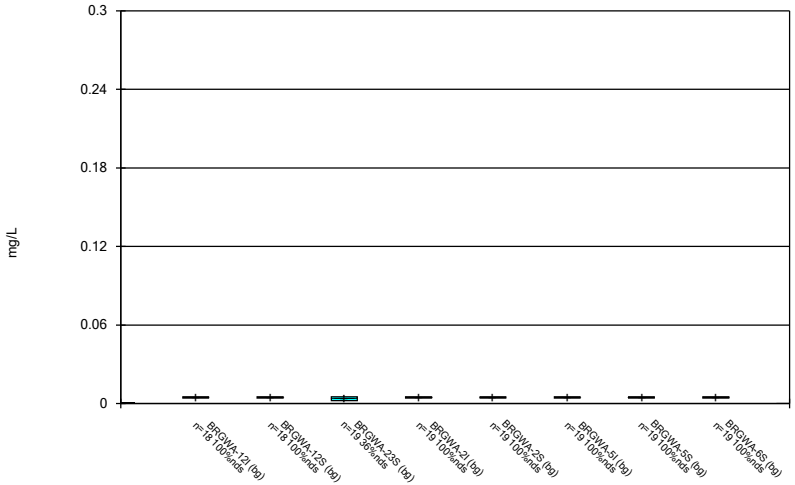
Box & Whiskers Plot



Constituent: pH, Field Analysis Run 10/24/2023 1:04 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

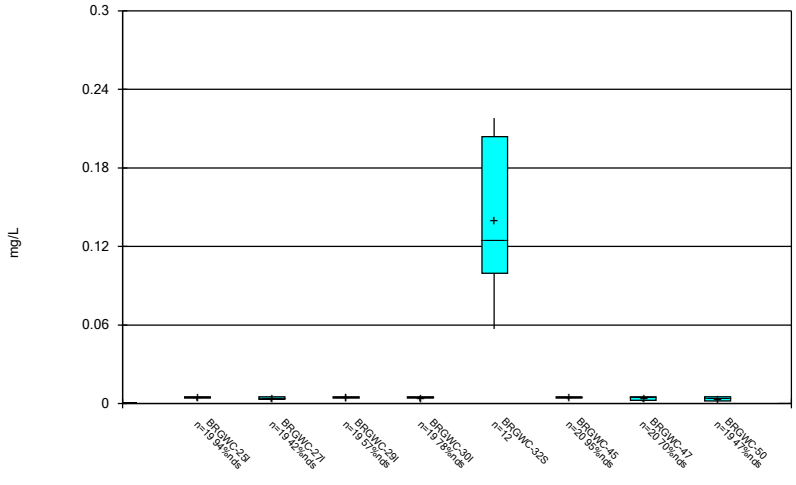
Box & Whiskers Plot



Constituent: Selenium Analysis Run 10/24/2023 1:04 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

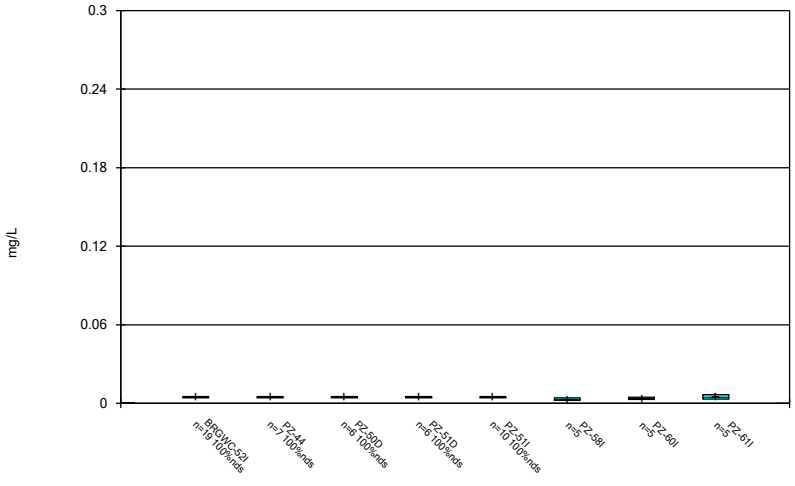
Box & Whiskers Plot



Constituent: Selenium Analysis Run 10/24/2023 1:04 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

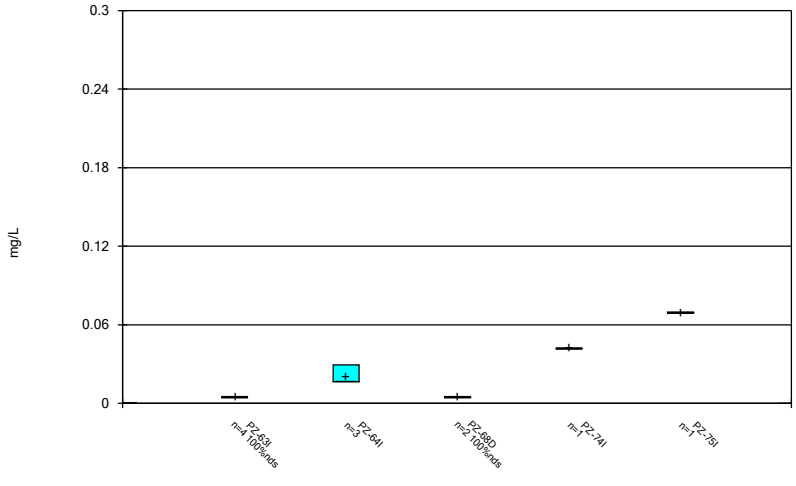
Box & Whiskers Plot



Constituent: Selenium Analysis Run 10/24/2023 1:04 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

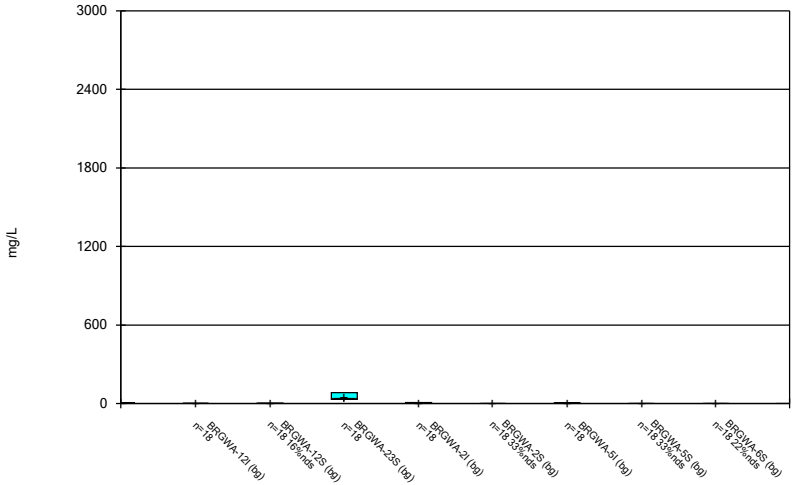
Box & Whiskers Plot



Constituent: Selenium Analysis Run 10/24/2023 1:04 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

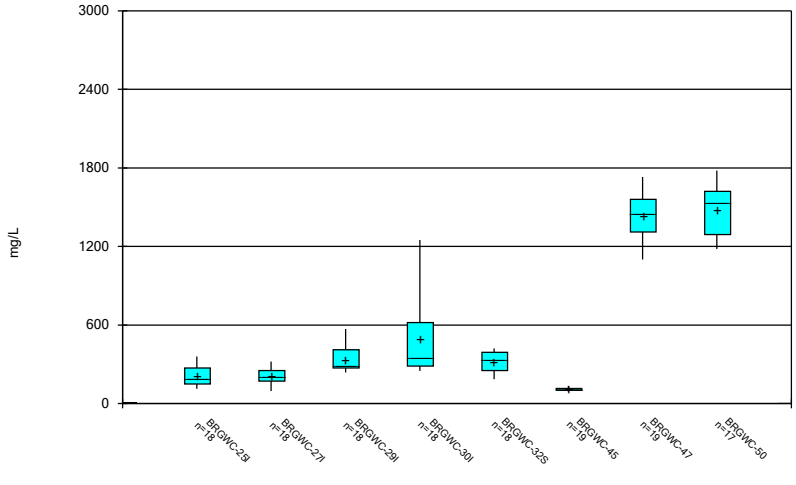
Box & Whiskers Plot



Constituent: Sulfate Analysis Run 10/24/2023 1:04 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

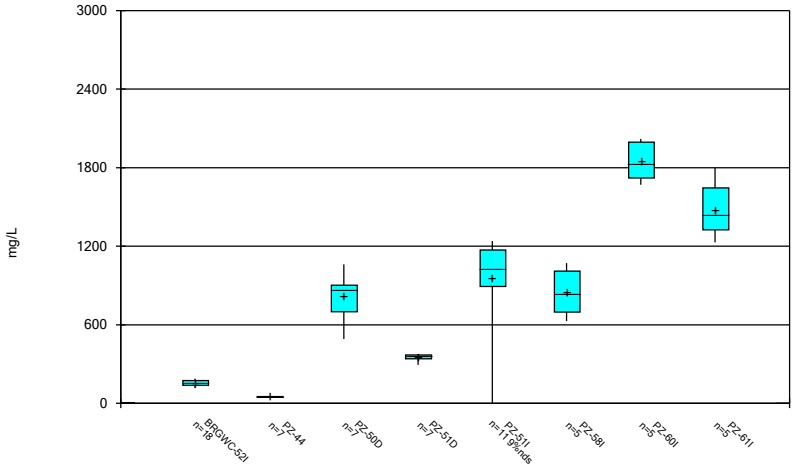
Box & Whiskers Plot



Constituent: Sulfate Analysis Run 10/24/2023 1:04 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

Box & Whiskers Plot



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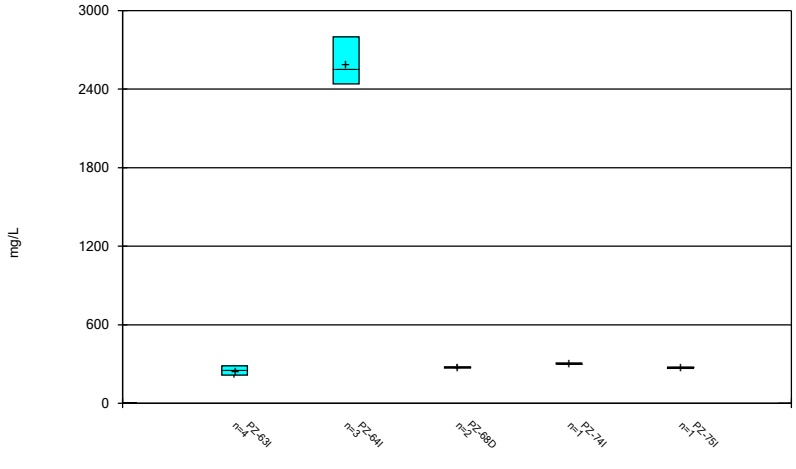
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

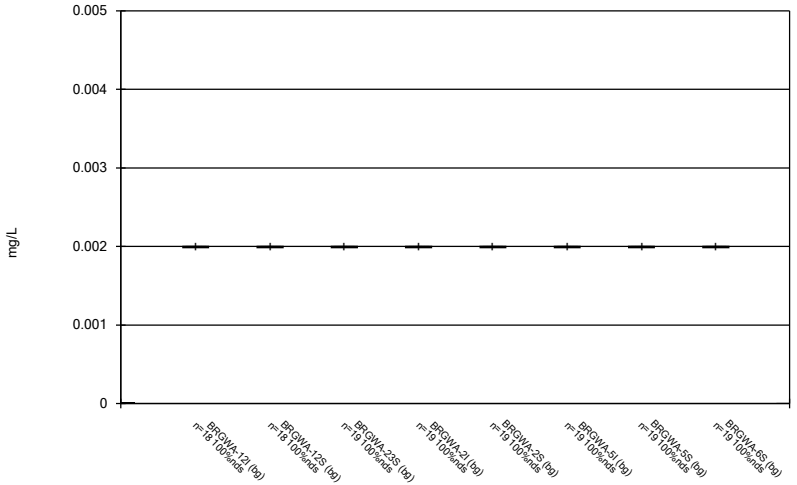
Box & Whiskers Plot



Constituent: Sulfate Analysis Run 10/24/2023 1:04 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

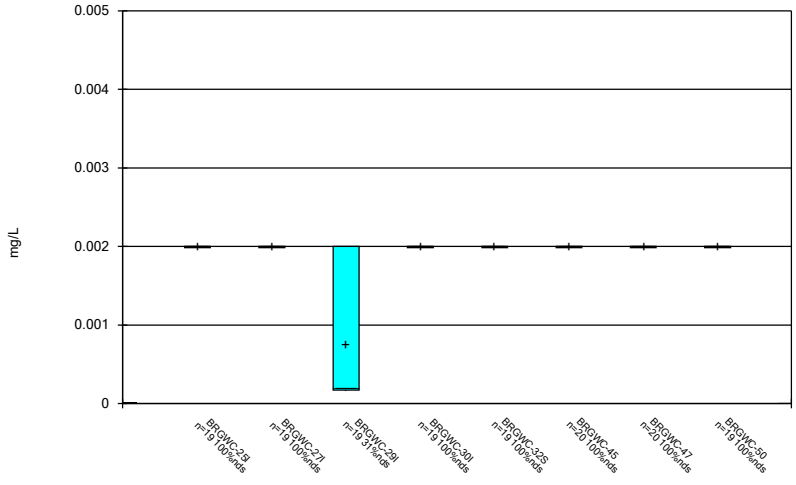
Box & Whiskers Plot



Constituent: Thallium Analysis Run 10/24/2023 1:04 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

Box & Whiskers Plot



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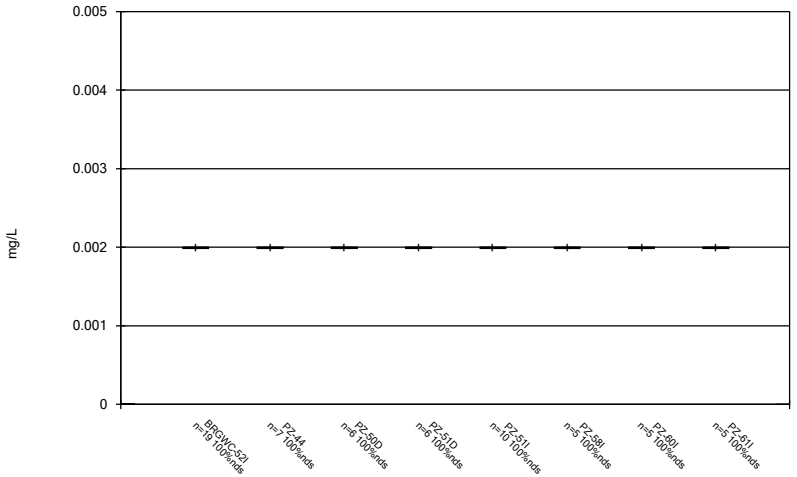
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

Box & Whiskers Plot



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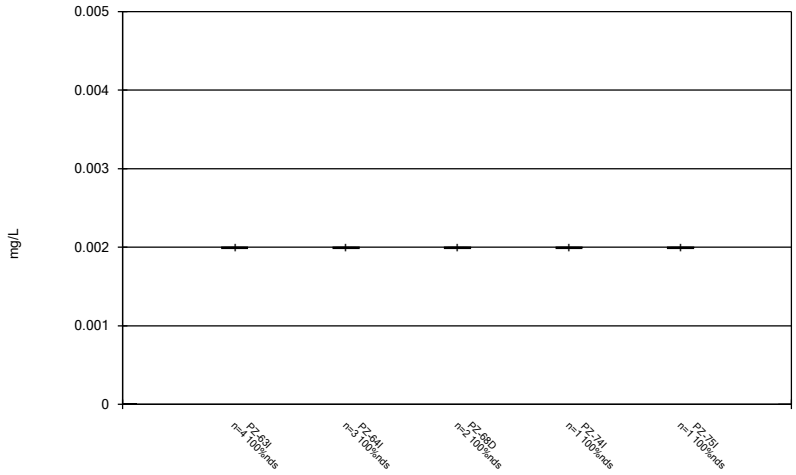
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

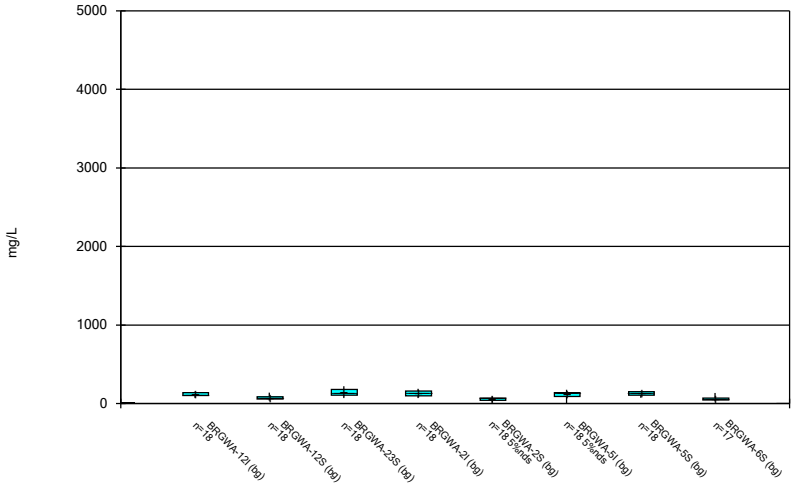
Box & Whiskers Plot



Constituent: Thallium Analysis Run 10/24/2023 1:04 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

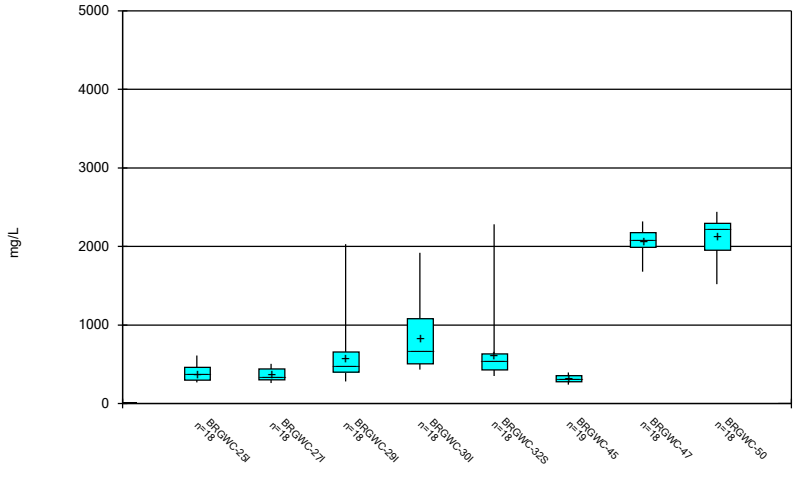
Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 10/24/2023 1:05 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

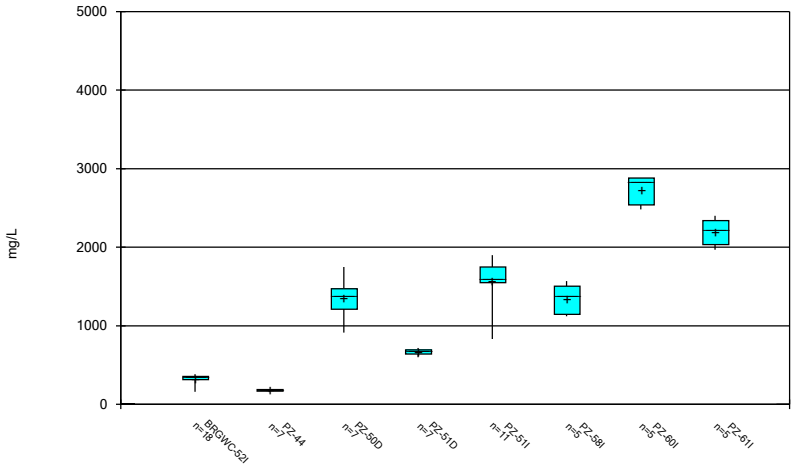
Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 10/24/2023 1:05 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

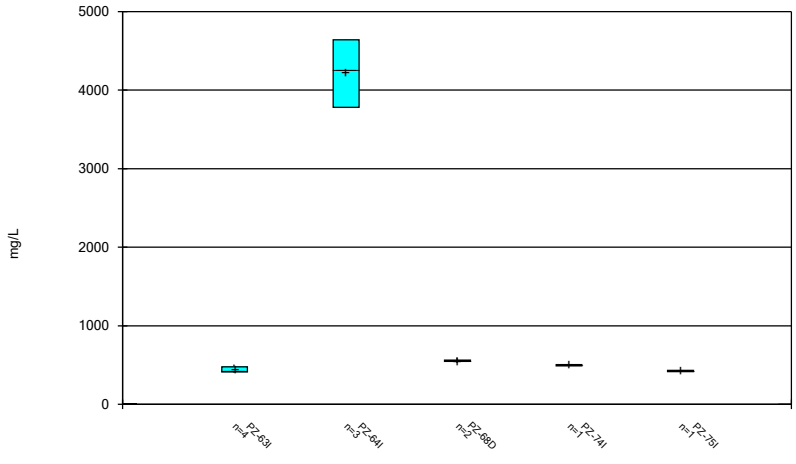
Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 10/24/2023 1:05 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 10/24/2023 1:05 PM View: Constituents View - B,C,D
Plant Branch Data: Plant Branch AP

FIGURE C.

Outlier Summary

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 10/23/2023, 6:32 PM

	BRGWC-52I Calcium (mg/L)	BRGWA-5I Cobalt (mg/L)	BRGWC-52I Fluoride (mg/L)	BRGWC-29I Lead (mg/L)	BRGWC-45 Lithium (mg/L)	BRGWC-50 Sulfate (mg/L)	BRGWA-6S Total Dissolved Solids (mg/L)	BRGWC-47 Total Dissolved Solids (mg/L)
9/1/2016						299 (o)		
11/16/2016		<0.01 (o)						
2/13/2018		<0.01 (o)						
2/14/2018				<0.002 (o)				
6/27/2018							31 (OX)	
7/31/2018					<0.01 (o)			
8/10/2018	410 (O)		1.6 (O)					
1/16/2019						589 (O)		

FIGURE D.

Appendix III Interwell Prediction Limits - Significant Results

Plant Branch Data: Plant Branch AP Printed 10/23/2023, 6:51 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	BRGWC-25I	0.068	n/a	9/6/2023	1.95	Yes	142	n/a	n/a	52.11	n/a	n/a	0.00009726	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-27I	0.068	n/a	9/6/2023	1.25	Yes	142	n/a	n/a	52.11	n/a	n/a	0.00009726	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-29I	0.068	n/a	9/6/2023	1.34	Yes	142	n/a	n/a	52.11	n/a	n/a	0.00009726	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-30I	0.068	n/a	9/1/2023	2.05	Yes	142	n/a	n/a	52.11	n/a	n/a	0.00009726	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-32S	0.068	n/a	9/1/2023	1.13	Yes	142	n/a	n/a	52.11	n/a	n/a	0.00009726	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-47	0.068	n/a	9/6/2023	0.689	Yes	142	n/a	n/a	52.11	n/a	n/a	0.00009726	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-50	0.068	n/a	9/8/2023	0.372	Yes	142	n/a	n/a	52.11	n/a	n/a	0.00009726	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-52I	0.068	n/a	9/6/2023	1.87	Yes	142	n/a	n/a	52.11	n/a	n/a	0.00009726	NP Inter (NDs) 1 of 2
Calcium (mg/L)	BRGWC-25I	24	n/a	9/6/2023	69.6	Yes	144	n/a	n/a	4.167	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-27I	24	n/a	9/6/2023	74.4	Yes	144	n/a	n/a	4.167	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-29I	24	n/a	9/6/2023	71.4	Yes	144	n/a	n/a	4.167	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-30I	24	n/a	9/1/2023	414	Yes	144	n/a	n/a	4.167	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-32S	24	n/a	8/31/2023	45.1	Yes	144	n/a	n/a	4.167	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-45	24	n/a	9/6/2023	34	Yes	144	n/a	n/a	4.167	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-47	24	n/a	9/6/2023	347	Yes	144	n/a	n/a	4.167	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-50	24	n/a	9/8/2023	214	Yes	144	n/a	n/a	4.167	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-52I	24	n/a	9/6/2023	37.4	Yes	144	n/a	n/a	4.167	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-25I	5.8	n/a	8/25/2023	8.47	Yes	144	n/a	n/a	0	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-29I	5.8	n/a	8/25/2023	6.08	Yes	144	n/a	n/a	0	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-45	5.8	n/a	8/26/2023	16.5	Yes	144	n/a	n/a	0	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-50	5.8	n/a	8/25/2023	14.8	Yes	144	n/a	n/a	0	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-52I	5.8	n/a	8/25/2023	6.28	Yes	144	n/a	n/a	0	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-50	0.42	n/a	8/24/2023	0.499	Yes	158	n/a	n/a	50	n/a	n/a	0.00007882	NP Inter (normality) 1 of 2
pH, Field (S.U.)	BRGWC-29I	7.016	5.595	8/24/2023	4.48	Yes	160	6.306	0.3824	0	None	No	0.0005373	Param Inter 1 of 2
pH, Field (S.U.)	BRGWC-50	7.016	5.595	8/23/2023	5.12	Yes	160	6.306	0.3824	0	None	No	0.0005373	Param Inter 1 of 2
Sulfate (mg/L)	BRGWC-25I	89	n/a	8/25/2023	174	Yes	144	n/a	n/a	13.19	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-27I	89	n/a	8/26/2023	94.5	Yes	144	n/a	n/a	13.19	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-29I	89	n/a	8/26/2023	288	Yes	144	n/a	n/a	13.19	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-30I	89	n/a	8/24/2023	1250	Yes	144	n/a	n/a	13.19	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-32S	89	n/a	8/24/2023	256	Yes	144	n/a	n/a	13.19	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-45	89	n/a	8/26/2023	114	Yes	144	n/a	n/a	13.19	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-47	89	n/a	8/25/2023	1300	Yes	144	n/a	n/a	13.19	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-50	89	n/a	8/25/2023	1290	Yes	144	n/a	n/a	13.19	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-52I	89	n/a	8/25/2023	150	Yes	144	n/a	n/a	13.19	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-25I	221	n/a	8/30/2023	354	Yes	143	n/a	n/a	1.399	n/a	n/a	0.00009611	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-27I	221	n/a	8/30/2023	309	Yes	143	n/a	n/a	1.399	n/a	n/a	0.00009611	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-29I	221	n/a	8/30/2023	418	Yes	143	n/a	n/a	1.399	n/a	n/a	0.00009611	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-30I	221	n/a	8/25/2023	1920	Yes	143	n/a	n/a	1.399	n/a	n/a	0.00009611	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-32S	221	n/a	8/25/2023	412	Yes	143	n/a	n/a	1.399	n/a	n/a	0.00009611	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-45	221	n/a	8/30/2023	242	Yes	143	n/a	n/a	1.399	n/a	n/a	0.00009611	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-47	221	n/a	8/30/2023	1970	Yes	143	n/a	n/a	1.399	n/a	n/a	0.00009611	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-50	221	n/a	8/30/2023	2180	Yes	143	n/a	n/a	1.399	n/a	n/a	0.00009611	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-52I	221	n/a	8/30/2023	281	Yes	143	n/a	n/a	1.399	n/a	n/a	0.00009611	NP Inter (normality) 1 of 2

Appendix III Interwell Prediction Limits - All Results

Plant Branch Data: Plant Branch AP Printed 10/23/2023, 6:51 PM

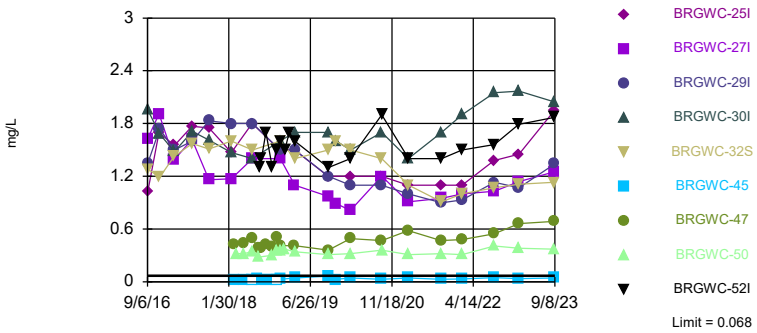
Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	**BRGWC-25I**	**0.068**	**n/a**	**9/6/2023**	**1.95**	**Yes**	**142**	**n/a**	**n/a**	**52.11**	**n/a**	**n/a**	**0.00009726**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**BRGWC-27I**	**0.068**	**n/a**	**9/6/2023**	**1.25**	**Yes**	**142**	**n/a**	**n/a**	**52.11**	**n/a**	**n/a**	**0.00009726**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**BRGWC-29I**	**0.068**	**n/a**	**9/6/2023**	**1.34**	**Yes**	**142**	**n/a**	**n/a**	**52.11**	**n/a**	**n/a**	**0.00009726**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**BRGWC-30I**	**0.068**	**n/a**	**9/1/2023**	**2.05**	**Yes**	**142**	**n/a**	**n/a**	**52.11**	**n/a**	**n/a**	**0.00009726**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**BRGWC-32S**	**0.068**	**n/a**	**9/1/2023**	**1.13**	**Yes**	**142**	**n/a**	**n/a**	**52.11**	**n/a**	**n/a**	**0.00009726**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	BRGWC-45	0.068	n/a	9/6/2023	0.0444	No	142	n/a	n/a	52.11	n/a	n/a	0.00009726	NP Inter (NDs) 1 of 2
Boron (mg/L)	**BRGWC-47**	**0.068**	**n/a**	**9/6/2023**	**0.689**	**Yes**	**142**	**n/a**	**n/a**	**52.11**	**n/a**	**n/a**	**0.00009726**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**BRGWC-50**	**0.068**	**n/a**	**9/8/2023**	**0.372**	**Yes**	**142**	**n/a**	**n/a**	**52.11**	**n/a**	**n/a**	**0.00009726**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**BRGWC-52I**	**0.068**	**n/a**	**9/6/2023**	**1.87**	**Yes**	**142**	**n/a**	**n/a**	**52.11**	**n/a**	**n/a**	**0.00009726**	**NP Inter (NDs) 1 of 2**
Calcium (mg/L)	**BRGWC-25I**	**24**	**n/a**	**9/6/2023**	**69.6**	**Yes**	**144**	**n/a**	**n/a**	**4.167**	**n/a**	**n/a**	**0.00009495**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**BRGWC-27I**	**24**	**n/a**	**9/6/2023**	**74.4**	**Yes**	**144**	**n/a**	**n/a**	**4.167**	**n/a**	**n/a**	**0.00009495**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**BRGWC-29I**	**24**	**n/a**	**9/6/2023**	**71.4**	**Yes**	**144**	**n/a**	**n/a**	**4.167**	**n/a**	**n/a**	**0.00009495**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**BRGWC-30I**	**24**	**n/a**	**9/1/2023**	**414**	**Yes**	**144**	**n/a**	**n/a**	**4.167**	**n/a**	**n/a**	**0.00009495**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**BRGWC-32S**	**24**	**n/a**	**8/31/2023**	**45.1**	**Yes**	**144**	**n/a**	**n/a**	**4.167**	**n/a**	**n/a**	**0.00009495**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**BRGWC-45**	**24**	**n/a**	**9/6/2023**	**34**	**Yes**	**144**	**n/a**	**n/a**	**4.167**	**n/a**	**n/a**	**0.00009495**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**BRGWC-47**	**24**	**n/a**	**9/6/2023**	**347**	**Yes**	**144**	**n/a**	**n/a**	**4.167**	**n/a**	**n/a**	**0.00009495**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**BRGWC-50**	**24**	**n/a**	**9/8/2023**	**214**	**Yes**	**144**	**n/a**	**n/a**	**4.167**	**n/a**	**n/a**	**0.00009495**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**BRGWC-52I**	**24**	**n/a**	**9/6/2023**	**37.4**	**Yes**	**144**	**n/a**	**n/a**	**4.167**	**n/a**	**n/a**	**0.00009495**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**BRGWC-25I**	**5.8**	**n/a**	**8/25/2023**	**8.47**	**Yes**	**144**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00009495**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	BRGWC-27I	5.8	n/a	8/25/2023	4.81	No	144	n/a	n/a	0	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Chloride (mg/L)	**BRGWC-29I**	**5.8**	**n/a**	**8/25/2023**	**6.08**	**Yes**	**144**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00009495**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	BRGWC-30I	5.8	n/a	8/23/2023	3.35	No	144	n/a	n/a	0	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-32S	5.8	n/a	8/23/2023	4.3	No	144	n/a	n/a	0	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Chloride (mg/L)	**BRGWC-45**	**5.8**	**n/a**	**8/26/2023**	**16.5**	**Yes**	**144**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00009495**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	BRGWC-47	5.8	n/a	8/25/2023	4.67	No	144	n/a	n/a	0	n/a	n/a	0.00009495	NP Inter (normality) 1 of 2
Chloride (mg/L)	**BRGWC-50**	**5.8**	**n/a**	**8/25/2023**	**14.8**	**Yes**	**144**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00009495**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**BRGWC-52I**	**5.8**	**n/a**	**8/25/2023**	**6.28**	**Yes**	**144**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00009495**	**NP Inter (normality) 1 of 2**
Fluoride (mg/L)	BRGWC-25I	0.42	n/a	8/25/2023	0.25	No	158	n/a	n/a	50	n/a	n/a	0.00007882	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-27I	0.42	n/a	8/25/2023	0.302	No	158	n/a	n/a	50	n/a	n/a	0.00007882	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-29I	0.42	n/a	8/25/2023	0.0849J	No	158	n/a	n/a	50	n/a	n/a	0.00007882	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-30I	0.42	n/a	8/23/2023	0.116	No	158	n/a	n/a	50	n/a	n/a	0.00007882	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-32S	0.42	n/a	8/23/2023	0.0477J	No	158	n/a	n/a	50	n/a	n/a	0.00007882	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-45	0.42	n/a	8/25/2023	0.185	No	158	n/a	n/a	50	n/a	n/a	0.00007882	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-47	0.42	n/a	8/25/2023	0.243	No	158	n/a	n/a	50	n/a	n/a	0.00007882	NP Inter (normality) 1 of 2
Fluoride (mg/L)	**BRGWC-50**	**0.42**	**n/a**	**8/24/2023**	**0.499**	**Yes**	**158**	**n/a**	**n/a**	**50**	**n/a**	**n/a**	**0.00007882**	**NP Inter (normality) 1 of 2**
Fluoride (mg/L)	BRGWC-52I	0.42	n/a	8/25/2023	0.188J	No	158	n/a	n/a	50	n/a	n/a	0.00007882	NP Inter (normality) 1 of 2
pH, Field (S.U.)	BRGWC-25I	7.016	5.595	8/24/2023	6.14	No	160	6.306	0.3824	0	None	No	0.0005373	Param Inter 1 of 2
pH, Field (S.U.)	BRGWC-27I	7.016	5.595	8/24/2023	6.01	No	160	6.306	0.3824	0	None	No	0.0005373	Param Inter 1 of 2
pH, Field (S.U.)	**BRGWC-29I**	**7.016**	**5.595**	**8/24/2023**	**4.48**	**Yes**	**160**	**6.306**	**0.3824**	**0**	**None**	**No**	**0.0005373**	**Param Inter 1 of 2**
pH, Field (S.U.)	BRGWC-30I	7.016	5.595	8/22/2023	6.44	No	160	6.306	0.3824	0	None	No	0.0005373	Param Inter 1 of 2
pH, Field (S.U.)	BRGWC-32S	7.016	5.595	8/22/2023	5.98	No	160	6.306	0.3824	0	None	No	0.0005373	Param Inter 1 of 2
pH, Field (S.U.)	BRGWC-45	7.016	5.595	8/24/2023	5.71	No	160	6.306	0.3824	0	None	No	0.0005373	Param Inter 1 of 2
pH, Field (S.U.)	BRGWC-47	7.016	5.595	8/24/2023	5.69	No	160	6.306	0.3824	0	None	No	0.0005373	Param Inter 1 of 2
pH, Field (S.U.)	**BRGWC-50**	**7.016**	**5.595**	**8/23/2023**	**5.12**	**Yes**	**160**	**6.306**	**0.3824**	**0**	**None**	**No**	**0.0005373**	**Param Inter 1 of 2**
pH, Field (S.U.)	BRGWC-52I	7.016	5.595	8/24/2023	6.24	No	160	6.306	0.3824	0	None	No	0.0005373	Param Inter 1 of 2
Sulfate (mg/L)	**BRGWC-25I**	**89**	**n/a**	**8/25/2023**	**174**	**Yes**	**144**	**n/a**	**n/a**	**13.19**	**n/a**	**n/a**	**0.00009495**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**BRGWC-27I**	**89**	**n/a**	**8/26/2023**	**94.5**	**Yes**	**144**	**n/a**	**n/a**	**13.19**	**n/a**	**n/a**	**0.00009495**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**BRGWC-29I**	**89**	**n/a**	**8/26/2023**	**288**	**Yes**	**144**	**n/a**	**n/a**	**13.19**	**n/a**	**n/a**	**0.00009495**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**BRGWC-30I**	**89**	**n/a**	**8/24/2023**	**1250**	**Yes**	**144**	**n/a**	**n/a**	**13.19**	**n/a**	**n/a**	**0.00009495**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**BRGWC-32S**	**89**	**n/a**	**8/24/2023**	**256**	**Yes**	**144**	**n/a**	**n/a**	**13.19**	**n/a**	**n/a**	**0.00009495**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**BRGWC-45**	**89**	**n/a**	**8/26/2023**	**114**	**Yes**	**144**	**n/a**	**n/a**	**13.19**	**n/a**	**n/a**	**0.00009495**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**BRGWC-47**	**89**	**n/a**	**8/25/2023**	**1300**	**Yes**	**144**	**n/a**	**n/a**	**13.19**	**n/a**	**n/a**	**0.00009495**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**BRGWC-50**	**89**	**n/a**	**8/25/2023**	**1290**	**Yes**	**144**	**n/a**	**n/a**	**13.19**	**n/a**	**n/a**	**0.00009495**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**BRGWC-52I**	**89**	**n/a**	**8/25/2023**	**150**	**Yes**	**144**	**n/a**	**n/a**	**13.19**	**n/a**	**n/a**	**0.00009495**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids (mg/L)	**BRGWC-25I**	**221**	**n/a**	**8/30/2023**	**354**	**Yes**	**143**	**n/a**	**n/a**	**1.399**	**n/a**	**n/a**	**0.00009611**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids (mg/L)	**BRGWC-27I**	**221**	**n/a**	**8/30/2023**	**309**	**Yes**	**143**	**n/a**	**n/a**	**1.399**	**n/a**	**n/a**	**0.00009611**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids (mg/L)	**BRGWC-29I**	**221**	**n/a**	**8/30/2023**	**418**	**Yes**	**143**	**n/a**	**n/a**	**1.399**	**n/a**	**n/a**	**0.00009611**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids (mg/L)	**BRGWC-30I**	**221**	**n/a**	**8/25/2023**	**1920**	**Yes**	**143**	**n/a**	**n/a**	**1.399**	**n/a**	**n/a**	**0.00009611**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids (mg/L)	**BRGWC-32S**	**221**	**n/a**	**8/25/2023**	**412**	**Yes**	**143**	**n/a**	**n/a**	**1.399**	**n/a**	**n/a**	**0.00009611**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids (mg/L)	**BRGWC-45**	**221**	**n/a**	**8/30/2023**	**242**	**Yes**	**143**	**n/a**	**n/a**	**1.399**	**n/a**	**n/a**	**0.00009611**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids (mg/L)	**BRGWC-47**	**221**	**n/a**	**8/30/2023**	**1970**	**Yes**	**143**	**n/a**	**n/a**	**1.399**	**n/a**	**n/a**	**0.00009611**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids (mg/L)	**BRGWC-50**	**221**	**n/a**	**8/30/2023**	**2180**	**Yes**	**143**	**n/a**	**n/a**	**1.399**	**n/a**	**n/a**	**0.00009611**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids (mg/L)	**BRGWC-52I**	**221**	**n/a**	**8/30/2023**	**281**	**Yes**	**143**	**n/a**	**n/a**	**1.399**	**n/a**	**n/a**	**0.00009611**	**NP Inter (normality) 1 of 2**

Sanitas™ v.10.0.13 . UG
Hollow symbols indicate censored values.

Exceeds Limit: BRGWC-25I, BRGWC-27I, BRGWC-29I, BRGWC-30I, BRGWC-32S, BRGWC-47, BRGWC-50, BRGWC-52I

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 142 background values. 52.11% NDs. Annual per-constituent alpha = 0.001361. Individual comparison alpha = 0.00009726 (1 of 2). Comparing 9 points to limit.

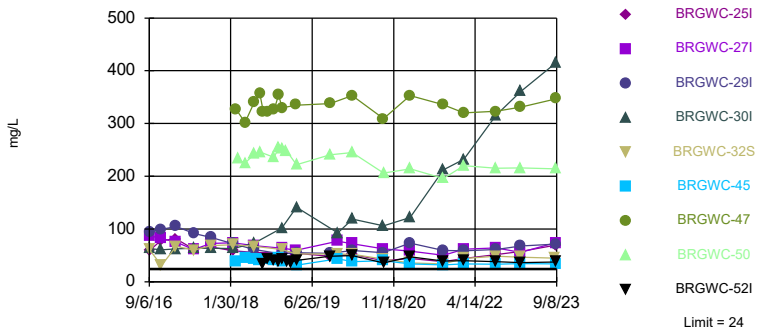
Constituent: Boron Analysis Run 10/23/2023 6:45 PM View: Appendix III - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

Exceeds Limit: BRGWC-25I, BRGWC-27I, BRGWC-29I, BRGWC-30I, BRGWC-32S, BRGWC-45, BRGWC-47, BRGWC-50,..

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 144 background values. 4.167% NDs. Annual per-constituent alpha = 0.001329. Individual comparison alpha = 0.00009495 (1 of 2). Comparing 9 points to limit.

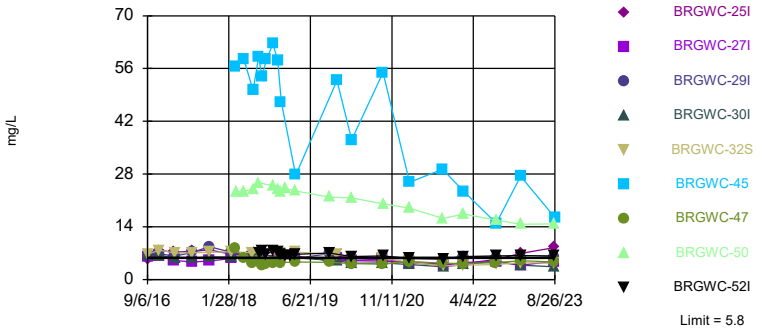
Constituent: Calcium Analysis Run 10/23/2023 6:45 PM View: Appendix III - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

Exceeds Limit: BRGWC-25I, BRGWC-29I, BRGWC-45, BRGWC-50, BRGWC-52I

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 144 background values. Annual per-constituent alpha = 0.001329. Individual comparison alpha = 0.00009495 (1 of 2). Comparing 9 points to limit.

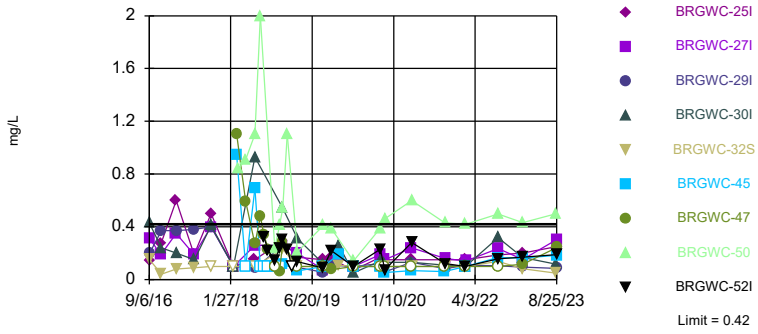
Constituent: Chloride Analysis Run 10/23/2023 6:45 PM View: Appendix III - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG
Hollow symbols indicate censored values.

Exceeds Limit: BRGWC-50

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 158 background values. 50% NDs. Annual per-constituent alpha = 0.001103. Individual comparison alpha = 0.00007882 (1 of 2). Comparing 9 points to limit.

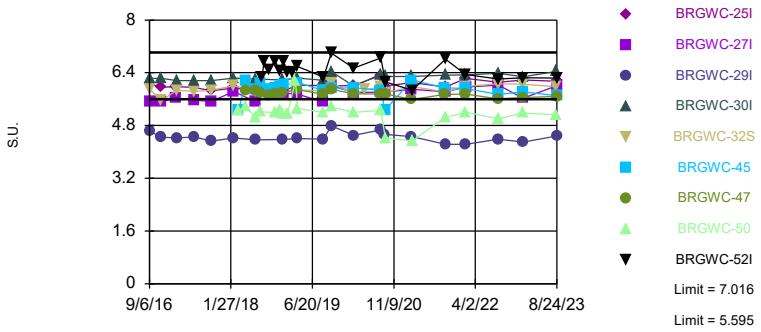
Constituent: Fluoride Analysis Run 10/23/2023 6:45 PM View: Appendix III - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

Exceeds Limits: BRGWC-29I, BRGWC-50

Prediction Limit

Interwell Parametric



Background Data Summary: Mean=6.306, Std. Dev.=0.3824, n=160. Normality test: Chi Squared @alpha = 0.01, calculated = 5.875, critical = 14.07. Kappa = 1.859 (c=7, w=7, 1 of 2, event alpha = 0.05132). N exceeds UG tables; Kappa based on n=150. Report alpha = 0.007498. Individual comparison alpha = 0.0005373. Comparing 9 points to limit.

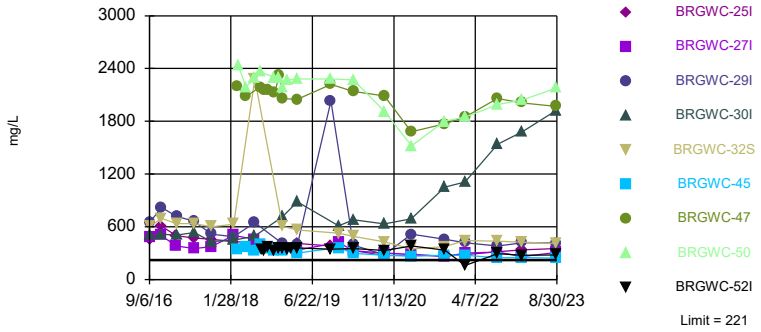
Constituent: pH, Field Analysis Run 10/23/2023 6:45 PM View: Appendix III - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

Exceeds Limit: BRGWC-25I, BRGWC-27I, BRGWC-29I, BRGWC-30I, BRGWC-32S, BRGWC-45, BRGWC-47, BRGWC-50,..

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 143 background values. 1.399% NDs. Annual per-constituent alpha = 0.001345. Individual comparison alpha = 0.00009611 (1 of 2). Comparing 9 points to limit.

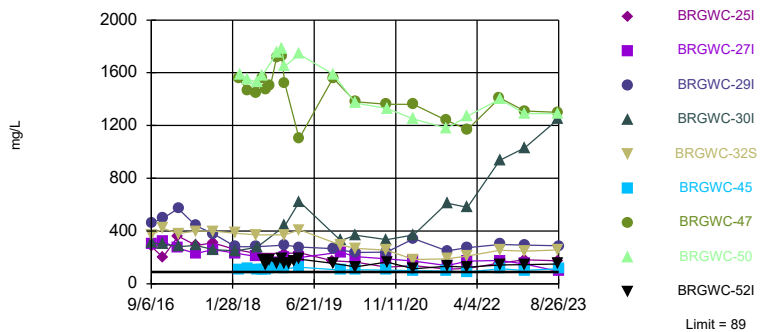
Constituent: Total Dissolved Solids Analysis Run 10/23/2023 6:45 PM View: Appendix III - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

Exceeds Limit: BRGWC-25I, BRGWC-27I, BRGWC-29I, BRGWC-30I, BRGWC-32S, BRGWC-45, BRGWC-47, BRGWC-50,..

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 144 background values. 13.19% NDs. Annual per-constituent alpha = 0.001329. Individual comparison alpha = 0.00009495 (1 of 2). Comparing 9 points to limit.

Constituent: Sulfate Analysis Run 10/23/2023 6:45 PM View: Appendix III - B,C,D
Plant Branch Data: Plant Branch AP

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 10/23/2023 6:51 PM View: Appendix III - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWA-5S (bg)	BRGWA-5I (bg)	BRGWA-2S (bg)	BRGWA-2I (bg)	BRGWA-6S (bg)	BRGWA-12S (bg)	BRGWA-12I (bg)	BRGWA-23S (bg)	BRGWC-30I
8/31/2016	<0.015	<0.015	<0.015	0.0072 (J)					
9/1/2016					<0.015	<0.015	0.0093 (J)		
9/6/2016								0.0362 (J)	1.96
9/8/2016									
11/15/2016	0.0085 (J)				0.0123 (J)				
11/16/2016		0.0187 (J)	0.0109 (J)	0.0117 (J)		0.0081 (J)	0.0127 (J)		
11/17/2016								0.0617	
11/18/2016									
11/21/2016									1.68
2/20/2017	0.0093 (J)	0.0066 (J)			0.0157 (J)				
2/21/2017			<0.015	0.0088 (J)		<0.015	0.0071 (J)	0.0245 (J)	
2/22/2017									1.48
6/12/2017	<0.015	<0.015		0.0133 (J)	<0.015				
6/13/2017			<0.015			<0.015		<0.015	
6/14/2017							0.0078 (J)		1.71
9/26/2017	<0.015	<0.015	<0.015	0.0093 (J)	<0.015	<0.015	<0.015	<0.015	
9/27/2017									1.61
2/13/2018	<0.015	<0.015	<0.015	0.0141 (J)	<0.015				
2/14/2018						<0.015	0.0068 (J)	0.0314 (J)	1.47
3/6/2018									
3/15/2018									
5/1/2018									
6/26/2018	0.0056 (J)	0.0042 (J)	<0.015	0.012 (J)	0.0041 (J)	<0.015	0.008 (J)	0.062	
6/27/2018									
6/28/2018									1.4
7/31/2018									
8/1/2018									
8/10/2018									
8/23/2018									
9/19/2018									
10/29/2018									
11/28/2018									
12/18/2018	0.0062 (J)	<0.015	<0.015	0.0086 (J)	<0.015	0.0053 (J)	0.0083 (J)	0.055	1.6
12/19/2018									
12/20/2018									
1/16/2019									
1/17/2019									
2/13/2019									
3/19/2019	<0.015	<0.015	<0.015	0.00565 (JD)	<0.015	<0.015	0.008 (J)	0.068	
3/20/2019									1.7
10/15/2019	0.006 (J)	<0.015	<0.015	0.0067 (J)	0.01 (J)	<0.015	0.006 (J)	0.022 (J)	
10/16/2019									
10/17/2019									1.7
12/3/2019									
12/4/2019									1.6
3/3/2020	<0.015	<0.015	<0.015	0.0082 (J)	<0.015	0.0065 (J)	0.01 (J)		
3/4/2020								0.044 (J)	
3/5/2020									1.5
9/15/2020	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	0.0071 (J)	0.033 (J)	
9/16/2020									1.7
9/17/2020									
3/1/2021				<0.015	<0.015				

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 10/23/2023 6:51 PM View: Appendix III - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWA-5S (bg)	BRGWA-5I (bg)	BRGWA-2S (bg)	BRGWA-2I (bg)	BRGWA-6S (bg)	BRGWA-12S (bg)	BRGWA-12I (bg)	BRGWA-23S (bg)	BRGWC-30I
3/2/2021	0.0071 (J)	0.0053 (J)	<0.015			<0.015	0.0057 (J)	0.042	
3/3/2021									1.4
3/4/2021									
9/21/2021	<0.015	<0.015				<0.015	<0.015		
9/22/2021			<0.015	<0.015	<0.015			0.047	
9/23/2021									
9/27/2021									
9/28/2021									1.7
2/1/2022	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	0.046	
2/2/2022									1.9
2/3/2022									
2/4/2022									
8/23/2022	0.00538 (J)	<0.015	0.00532 (J)	0.00592 (J)	<0.015	<0.015	0.00653 (J)	0.0498	
8/24/2022									2.15
8/25/2022									
1/24/2023	<0.015	<0.015	<0.015	<0.015	<0.015	0.0053 (J)	0.00884 (J)	0.0437	
1/25/2023									
1/26/2023									2.17
8/31/2023	0.00764 (J)	0.0073 (J)	0.00738 (J)	0.00649 (J)	0.00611 (J)			0.039	
9/1/2023									2.05
9/6/2023									
9/8/2023									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 10/23/2023 6:51 PM View: Appendix III - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWC-32S	BRGWC-27I	BRGWC-25I	BRGWC-29I	BRGWC-47	BRGWC-45	BRGWC-50	BRGWC-52I
8/31/2016								
9/1/2016								
9/6/2016								
9/8/2016	1.28	1.63	1.03	1.35				
11/15/2016								
11/16/2016								
11/17/2016			1.7					
11/18/2016		1.91						
11/21/2016	1.19			1.74				
2/20/2017								
2/21/2017		1.39	1.55					
2/22/2017	1.43			1.5				
6/12/2017								
6/13/2017		1.62	1.77					
6/14/2017	1.57			1.6				
9/26/2017								
9/27/2017	1.51	1.16	1.75	1.83				
2/13/2018								
2/14/2018	1.6	1.17	1.47	1.8				
3/6/2018					0.428	0.0198 (J)		
3/15/2018							0.32	
5/1/2018					0.435 (D)	0.015 (J)	0.32	
6/26/2018			1.8					
6/27/2018	1.5 (J+X)	1.4 (J+X)		1.8 (J+X)	0.49 (J+X)			
6/28/2018						<0.015 (X)	0.34	
7/31/2018						0.035 (J)		
8/1/2018					0.39		0.28	
8/10/2018								1.3
8/23/2018					0.39	0.022 (J)		1.4
9/19/2018					0.43	0.021 (J)		1.7
10/29/2018					0.4	0.021 (J)	0.3	1.3
11/28/2018					0.51	<0.015 (X)	0.35	1.5
12/18/2018			1.5	1.5				
12/19/2018	1.6				0.41		0.35	
12/20/2018		1.4				0.028 (J)		1.6
1/16/2019							0.37	
1/17/2019								1.5
2/13/2019								1.7
3/19/2019		1.1			0.41			
3/20/2019	1.4		1.5 (D)	1.5		0.043	0.34	1.6 (D)
10/15/2019			1.2					
10/16/2019				1.2	0.36		0.31	1.3
10/17/2019	1.5	0.97				0.064		
12/3/2019						0.027 (J)		
12/4/2019	1.6	0.89						
3/3/2020								
3/4/2020		0.81	1.2	1.1	0.49		0.32	1.4
3/5/2020	1.5					0.044 (J)		
9/15/2020			1.2	1.1				
9/16/2020	1.4	1.2			0.47	0.028 (J)		
9/17/2020							0.36	1.9
3/1/2021								

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 10/23/2023 6:51 PM View: Appendix III - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWC-32S	BRGWC-27I	BRGWC-25I	BRGWC-29I	BRGWC-47	BRGWC-45	BRGWC-50	BRGWC-52I
3/2/2021			1.1		0.58	0.044		
3/3/2021		0.91		1				
3/4/2021	1.1						0.31	1.4
9/21/2021								
9/22/2021								
9/23/2021					0.47	0.029 (J)		
9/27/2021							0.32	
9/28/2021	0.91	0.95	1.1	0.9				1.4
2/1/2022								
2/2/2022	1		1.1		0.48	0.034 (J)		1.5
2/3/2022				0.93			0.31	
2/4/2022		1						
8/23/2022			1.38		0.547			
8/24/2022				1.13			0.406	
8/25/2022	1.07	1.03				0.0458		1.56
1/24/2023	1.11							
1/25/2023		1.14				0.0355	0.383	1.79
1/26/2023			1.45	1.07	0.661			
8/31/2023								
9/1/2023	1.13							
9/6/2023		1.25	1.95	1.34	0.689	0.0444		1.87
9/8/2023							0.372	

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 10/23/2023 6:51 PM View: Appendix III - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWA-5S (bg)	BRGWA-5I (bg)	BRGWA-2S (bg)	BRGWA-2I (bg)	BRGWA-12I (bg)	BRGWA-6S (bg)	BRGWA-12S (bg)	BRGWC-30I	BRGWA-23S (bg)
8/31/2016	19.6	13.5	4.09	12.6					
9/1/2016					8.98	3.3	4.61		
9/6/2016								63.3	12.8
9/8/2016									
11/15/2016	21.7					3.44			
11/16/2016		14.9	4.25	12.1	15.4		4.17		
11/17/2016									19.2
11/18/2016									
11/21/2016								60.7	
2/20/2017	21.1	13.9				3.52			
2/21/2017			4.02	11.4	17.4		5		15.1
2/22/2017								62.1	
6/12/2017	21.5	13.7		9.34		3.11			
6/13/2017			3.84				4.98		10.2
6/14/2017					18.1			63.5	
9/26/2017	24	14.4	3.31	14.3	19.3	3.15	4.49		15
9/27/2017								63.5	
2/13/2018	<25	<25	3.94	<25		3.65			
2/14/2018					<25		<25	62.8	<25
3/6/2018									
3/15/2018									
5/1/2018									
6/26/2018	23.5 (J)	13.5 (J)	3.6	16 (J)	15.5 (J)	3.3	6.4		18.5 (J)
6/27/2018									
6/28/2018								73.3	
7/31/2018					18.2 (J)		6.1		
8/1/2018									
8/10/2018									
8/23/2018									
9/19/2018									
10/29/2018									
11/28/2018									
12/18/2018	19.8 (J)	16.4 (J)	3.8	14.5 (J)	18.7 (J)	3.5	5.5	102	16.8 (J)
12/19/2018									
12/20/2018									
1/16/2019									
1/17/2019									
2/13/2019									
3/19/2019	21.4 (J)	12.3 (J)	3.9	14.3 (JD)	15.9 (J)	3.6	5.9		13.5 (J)
3/20/2019								141	
10/15/2019	20	14.4	3.7	15.1	15.9	3.5	6.2		8.6
10/16/2019									
12/3/2019									
12/4/2019								92.6	
3/3/2020	23.2	14.9	4	20	19.4	5	6.8		
3/4/2020									11.5
3/5/2020								119	
9/15/2020	16.8	12.7	3.9	14.1	14.5	3.7	5.7		10.7
9/16/2020								106	
9/17/2020									
3/1/2021				15.4		4.2			
3/2/2021	16.8	13.2	4		11.7		5.4		11.6

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 10/23/2023 6:51 PM View: Appendix III - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWA-5S (bg)	BRGWA-5I (bg)	BRGWA-2S (bg)	BRGWA-2I (bg)	BRGWA-12I (bg)	BRGWA-6S (bg)	BRGWA-12S (bg)	BRGWC-30I	BRGWA-23S (bg)
3/3/2021								122	
3/4/2021									
9/21/2021	19.1	14.1			16.4		5.4		
9/22/2021			4.3	15.9		4.1			9.2
9/23/2021									
9/27/2021									
9/28/2021								212	
2/1/2022	19.1	14.5	4.4	14.4	14.2	4.2	5.3		10.7
2/2/2022								232	
2/3/2022									
2/4/2022									
8/23/2022	18.2	14.3	4.65	13.9	15.8	3.97	6.09		8.09
8/24/2022								316	
8/25/2022									
1/24/2023	19.4	15.8	4.86	14.2	13.7	3.9	5.62		6.97
1/25/2023									
1/26/2023								361	
8/31/2023	14.9	14.3	5.02	12.6		3.79			5.95
9/1/2023								414	
9/6/2023									
9/8/2023									

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 10/23/2023 6:51 PM View: Appendix III - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWC-25I	BRGWC-29I	BRGWC-32S	BRGWC-27I	BRGWC-47	BRGWC-45	BRGWC-50	BRGWC-52I
8/31/2016								
9/1/2016								
9/6/2016								
9/8/2016	59.4	93.9	60.5	87.2				
11/15/2016								
11/16/2016								
11/17/2016	78.4							
11/18/2016				82.4				
11/21/2016		99.1	31.1					
2/20/2017								
2/21/2017	80.9			75.1				
2/22/2017		105	67.3					
6/12/2017								
6/13/2017	62			61				
6/14/2017		91.3	60.2					
9/26/2017								
9/27/2017	65.8	84	68.4	72.6				
2/13/2018								
2/14/2018	58.8	72.1	70.2	74.1				
3/6/2018					326	39.5		
3/15/2018							233	
5/1/2018					302 (D)	45.5	225	
6/26/2018	55.5							
6/27/2018		61.1	67.1	68.2	340			
6/28/2018						41.9	242	
7/31/2018						41.5		
8/1/2018					358		246	
8/10/2018								410 (O)
8/23/2018					323	42.3		33.9
9/19/2018					321	41.9		42.3
10/29/2018					326	40.8	236	39.8
11/28/2018					354	45.1	254	38.2
12/18/2018	54.7	52.9						
12/19/2018			61.2		330		252	
12/20/2018				63.9		39		43.2
1/16/2019							248	
1/17/2019								39.4
2/13/2019								36.9
3/19/2019				60.2	335			
3/20/2019	53.95 (D)	55.4	52.8			31.2	222	40.85 (D)
10/15/2019	48.3							
10/16/2019		54			338		241	48.4
12/3/2019						43.7		
12/4/2019			52.7	76.8				
3/3/2020								
3/4/2020	52	59.3		72.3	353		245	49.5
3/5/2020			52.1			37.9		
9/15/2020	40.1	55.1						
9/16/2020			43.1	62.5	309	39.7		
9/17/2020							206	35.4
3/1/2021								
3/2/2021	44.1				353	33.9		

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 10/23/2023 6:51 PM View: Appendix III - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWC-25I	BRGWC-29I	BRGWC-32S	BRGWC-27I	BRGWC-47	BRGWC-45	BRGWC-50	BRGWC-52I
3/3/2021		73.3		58.2				
3/4/2021			35.7				214	47.5
9/21/2021								
9/22/2021								
9/23/2021					336	32		
9/27/2021							196	
9/28/2021	38.4	59.5	33.9	50.4				39.5
2/1/2022								
2/2/2022	44.3		44.2		320	33.8		40.1
2/3/2022		58.7					220	
2/4/2022				61.7				
8/23/2022	51.5				323			
8/24/2022		61					215	
8/25/2022			48.5	64		33.5		38.3
1/24/2023			46.6					
1/25/2023				55.7		34.3	216	36.3
1/26/2023	57.6	68			331			
8/31/2023			45.1					
9/1/2023								
9/6/2023	69.6	71.4		74.4	347	34		37.4
9/8/2023							214	

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 10/23/2023 6:51 PM View: Appendix III - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWA-5S (bg)	BRGWA-5I (bg)	BRGWA-2S (bg)	BRGWA-2I (bg)	BRGWA-12I (bg)	BRGWA-6S (bg)	BRGWA-12S (bg)	BRGWC-30I	BRGWA-23S (bg)
8/31/2016	3.6	4.4	2	2.3					
9/1/2016					3.3	2.5	3.5		
9/6/2016								6.7	5.8
9/8/2016									
11/15/2016	4					2.3			
11/16/2016		4.4	1.8	2	3.6		3.6		
11/17/2016									4.3
11/18/2016									
11/21/2016								6.5	
2/20/2017	3.9	4.8				2.4			
2/21/2017			1.8	2	3.2		3.2		3.5
2/22/2017								5.6	
6/12/2017	3.8	4.2		2.1		2.2			
6/13/2017			1.7				3.3		3.2
6/14/2017					3.1			5.7	
9/26/2017	4.1	4.4	1.8	2	3.3	2.3	3.3		3.5
9/27/2017								6	
2/13/2018	4.1	4.7	1.7	2.1		2.3			
2/14/2018					3.1		3.5	5.9	3.8
3/6/2018									
3/15/2018									
5/1/2018									
6/26/2018	4.1	4.5	2.2	2.4	3.4	2.6	3.4		3.8
6/27/2018									
6/28/2018								7 (J-X)	
7/31/2018					2.6		2.9		
8/1/2018									
8/10/2018									
8/23/2018									
9/19/2018									
10/29/2018									
11/28/2018									
12/18/2018	3.8	4.5	1.9	1.8	2.8	2.3	2.9	5.8	3.9
12/19/2018									
12/20/2018									
1/16/2019									
1/17/2019									
2/13/2019									
3/19/2019	4.2	4.5	2	2.45 (D)	3.2	2.6	3.5		3.8
3/20/2019								5.8	
10/15/2019	3.7	4.2	1.9	2.2	3.1	2.4	3.4		3.5
10/16/2019									
12/3/2019									
12/4/2019								5	
3/3/2020	3.6	3.9	1.9	1.9	2.6	2.9	3.2		
3/4/2020									3.3
3/5/2020								4.3	
9/15/2020	3.7	3.7	1.7	1.9	2.4	2.3	3.5		3.1
9/16/2020								4.4	
9/17/2020									
3/1/2021				1.8		2.1			
3/2/2021	3.7	3.8	1.7		2.6		3.7		3.5

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 10/23/2023 6:51 PM View: Appendix III - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWA-5S (bg)	BRGWA-5I (bg)	BRGWA-2S (bg)	BRGWA-2I (bg)	BRGWA-12I (bg)	BRGWA-6S (bg)	BRGWA-12S (bg)	BRGWC-30I	BRGWA-23S (bg)
3/3/2021								4	
3/4/2021									
9/21/2021	3.2	3.2			2.1		3.5		
9/22/2021			1.5	1.7		2.1			2.8
9/23/2021									
9/27/2021									
9/28/2021								3.4	
2/1/2022	3.4	3.5	1.6	1.8	2.2	2.1	3.6		3.2
2/2/2022								4	
2/3/2022									
2/4/2022									
8/23/2022	3.59	3.64	2.18	2.02	2.5	2.39	5.46		3.16
8/24/2022								4.91	
8/25/2022									
1/24/2023	3.56	3.93	2.16	2.09	2.49	2.3	3.79		2.88
1/25/2023									
1/26/2023								3.82	
8/23/2023	3.37	3.53	2.14	1.9		2.34		3.35	2.41
8/25/2023									
8/26/2023									

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 10/23/2023 6:51 PM View: Appendix III - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWC-25I	BRGWC-29I	BRGWC-32S	BRGWC-27I	BRGWC-47	BRGWC-45	BRGWC-50	BRGWC-52I
8/31/2016								
9/1/2016								
9/6/2016								
9/8/2016	5.5	6.4	6.8	6				
11/15/2016								
11/16/2016								
11/17/2016	7.7							
11/18/2016				6.3				
11/21/2016		6.9	7.8					
2/20/2017								
2/21/2017	7.3			5.1				
2/22/2017		6.2	7					
6/12/2017								
6/13/2017	7.5			4.7				
6/14/2017		7.2	7.1					
9/26/2017								
9/27/2017	7.9	8.7	7.2	4.9				
2/13/2018								
2/14/2018	6.7	7.2	7.4	5.6				
3/6/2018					8.4	56.6		
3/15/2018							23.3	
5/1/2018					5.7 (JXD)	58.5	23.4	
6/26/2018	6.7							
6/27/2018		6.3	7.1	5.9	4.4			
6/28/2018						50.2 (J-X)	24 (J-X)	
7/31/2018						59		
8/1/2018					5.2		25.7	
8/10/2018								6.9
8/23/2018					3.6	54		7.5
9/19/2018					4.1	58.4		6.6
10/29/2018					4.3	62.6	24.9	7.8
11/28/2018					5.1	58.1	24	7.2
12/18/2018	6.2	5.4						
12/19/2018			7 (J-X)		4.5 (J-X)		23.3 (J-X)	
12/20/2018				5.6 (J-X)		47.2 (J-X)		6.6 (J-X)
1/16/2019							24.1	
1/17/2019								6.4
2/13/2019								6.5
3/19/2019				5.8	4.7			
3/20/2019	6.3 (D)	5.6	7.3			27.7	23.5	6.7 (D)
10/15/2019	5							
10/16/2019		6.9			4.6		21.9	7
12/3/2019						52.8		
12/4/2019			6.6	5.6				
3/3/2020								
3/4/2020	5	5.8		5.1	4.2		21.6	6.1
3/5/2020			6			37.1		
9/15/2020	4.9	5.5						
9/16/2020			5.6	5.4	4.1	54.9		
9/17/2020							20.1	6.3
3/1/2021								
3/2/2021	4.5				4.8	25.8		

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 10/23/2023 6:51 PM View: Appendix III - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWC-25I	BRGWC-29I	BRGWC-32S	BRGWC-27I	BRGWC-47	BRGWC-45	BRGWC-50	BRGWC-52I
3/3/2021		5.6		4.5				
3/4/2021			4.6				18.9	5.6
9/21/2021								
9/22/2021								
9/23/2021					4.3	29.3		
9/27/2021							16.2	
9/28/2021	4.2	5.4	3.6	3.7				5.5
2/1/2022								
2/2/2022	4.2		3.8		4.2	23.4		6.1
2/3/2022		6.1					17.4	
2/4/2022				4.6				
8/23/2022	5.38				4.49			
8/24/2022		5.84					15.8	
8/25/2022			3.96	4.65		14.9		6.27
1/24/2023			4.49					
1/25/2023				3.81		27.4	14.7	6.35
1/26/2023	6.96	5.59			4.96			
8/23/2023			4.3					
8/25/2023	8.47	6.08		4.81	4.67		14.8	6.28
8/26/2023						16.5		

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 10/23/2023 6:51 PM View: Appendix III - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWA-5S (bg)	BRGWA-5I (bg)	BRGWA-2S (bg)	BRGWA-2I (bg)	BRGWA-12I (bg)	BRGWA-6S (bg)	BRGWA-12S (bg)	BRGWC-30I	BRGWA-23S (bg)
8/31/2016	0.19 (J)	0.07 (J)	0.05 (J)	0.11 (J)					
9/1/2016					0.2 (J)	0.06 (J)	0.05 (J)		
9/6/2016								0.43	0.42
9/8/2016									
11/15/2016	0.13 (J)					0.06 (J)			
11/16/2016		0.07 (J)	0.07 (J)	0.08 (J)	0.14 (J)		0.03 (J)		
11/17/2016									0.15 (J)
11/18/2016									
11/21/2016								0.24 (J)	
2/20/2017	0.08 (J)	0.06 (J)				0.04 (J)			
2/21/2017			0.05 (J)	0.14 (J)	0.16 (J)		0.04 (J)		0.1 (J)
2/22/2017								0.2 (J)	
6/12/2017	0.07 (J)	0.008 (J)		0.16 (J)		0.06 (J)			
6/13/2017			0.04 (J)				0.008 (J)		0.07 (J)
6/14/2017					0.09 (J)			0.15 (J)	
9/26/2017	0.04 (J)	<0.1	<0.1	0.14 (J)	0.1 (J)	<0.1	<0.1		<0.1
9/27/2017								0.41	
2/13/2018	<0.1	<0.1	<0.1	<0.1		<0.1			
2/14/2018					<0.1		<0.1	<0.1	<0.1
3/6/2018									
3/15/2018									
5/1/2018									
6/26/2018	0.072 (J)	0.045 (J)	0.048 (J)	0.085 (J)	0.079 (J)	0.041 (J)	0.042 (J)		0.053 (J)
6/27/2018									
6/28/2018								0.93 (J+X)	
7/31/2018									
8/1/2018									
8/10/2018									
8/23/2018									
9/19/2018									
10/29/2018									
11/28/2018									
12/18/2018	<0.1	<0.1	<0.1	0.085 (J)	<0.1	<0.1	<0.1	0.54	<0.1
12/19/2018									
12/20/2018									
1/16/2019									
1/17/2019									
2/13/2019									
3/19/2019	0.06 (J)	<0.1	0.037 (J)	0.0655 (JD)	<0.1	0.03 (J)	<0.1		<0.1
3/20/2019								0.31	
8/27/2019	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.12 (J)	
8/28/2019									
8/29/2019									0.084 (J)
10/15/2019	0.045 (J)	<0.1	<0.1	<0.1	0.047 (J)	<0.1	<0.1		<0.1
10/16/2019									
12/3/2019									
12/4/2019								0.26 (J)	
3/3/2020	0.057 (J)	<0.1	0.05 (J)	0.066 (J)	0.056 (J)	0.09 (J)	<0.1		
3/4/2020									<0.1
3/5/2020								0.051 (J)	
8/18/2020	<0.1	<0.1	<0.1	<0.1	0.052 (J)	<0.1	<0.1		<0.1
8/19/2020								0.14	

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 10/23/2023 6:51 PM View: Appendix III - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWA-5S (bg)	BRGWA-5I (bg)	BRGWA-2S (bg)	BRGWA-2I (bg)	BRGWA-12I (bg)	BRGWA-6S (bg)	BRGWA-12S (bg)	BRGWC-30I	BRGWA-23S (bg)
8/20/2020									
9/15/2020	0.051 (J)	<0.1	<0.1	<0.1	0.062 (J)	<0.1	<0.1		<0.1
9/16/2020								0.13	
9/17/2020									
3/1/2021				<0.1		<0.1			
3/2/2021	<0.1	<0.1	<0.1		0.061 (J)		<0.1		<0.1
3/3/2021								0.13	
3/4/2021									
9/21/2021	0.056 (J)	<0.1			0.071 (J)		<0.1		
9/22/2021			<0.1	<0.1		<0.1			0.069 (J)
9/23/2021									
9/27/2021									
9/28/2021								0.11	
2/1/2022	<0.1	<0.1	<0.1	<0.1	0.055 (J)	<0.1	<0.1		<0.1
2/2/2022								0.1	
2/3/2022									
2/4/2022									
8/23/2022	<0.1	<0.1	<0.1	<0.1	0.151	<0.1	0.129		0.157
8/24/2022								0.318	
8/25/2022									
1/24/2023	0.158	0.149	<0.1	<0.1	0.214	0.12	0.0926 (J)		0.231
1/25/2023									
1/26/2023								0.167	
8/23/2023	0.277	0.289	0.229	0.267		0.0787 (J)		0.116	0.114
8/24/2023									
8/25/2023									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 10/23/2023 6:51 PM View: Appendix III - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWC-27I	BRGWC-25I	BRGWC-32S	BRGWC-29I	BRGWC-47	BRGWC-45	BRGWC-50	BRGWC-52I
8/31/2016								
9/1/2016								
9/6/2016								
9/8/2016	0.31	0.14 (J)	0.15 (J)	0.2 (J)				
11/15/2016								
11/16/2016								
11/17/2016		0.27 (J)						
11/18/2016	0.19 (J)							
11/21/2016			0.04 (J)	0.37				
2/20/2017								
2/21/2017	0.35	0.6						
2/22/2017			0.08 (J)	0.37				
6/12/2017								
6/13/2017	0.19 (J)	0.19 (J)						
6/14/2017			0.09 (J)	0.38				
9/26/2017								
9/27/2017	0.4	0.5	<0.1	0.4				
2/13/2018								
2/14/2018	<0.1	<0.1	<0.1	<0.1				
3/6/2018					1.1	0.94		
3/15/2018							0.84 (JX)	
5/1/2018					0.595 (D)	<0.1	0.91	
6/26/2018		0.15 (J)						
6/27/2018	0.26 (J)		<0.1	0.085 (J)	0.27 (J)			
6/28/2018						0.69 (J+X)	1.1 (J+X)	
7/31/2018						<0.1		
8/1/2018					0.48		2	
8/10/2018								1.6 (O)
8/23/2018					0.34	<0.1		0.32
9/19/2018					0.23 (J)	<0.1		0.22 (J)
10/29/2018					<0.1	<0.1	0.24 (J)	0.14 (J)
11/28/2018					0.063 (J)	<0.1	0.41	0.24 (J)
12/18/2018		0.29 (J)		0.26 (J)				
12/19/2018			0.23 (J)		0.28 (J)		0.54	
12/20/2018	0.26 (J)					0.12 (J)		0.3
1/16/2019							1.1	
1/17/2019								0.23 (J)
2/13/2019								<0.1
3/19/2019	0.2 (J)				<0.1			
3/20/2019		0.17 (JD)	<0.1	0.091 (J)		0.066 (J)	0.21 (J)	0.135 (JD)
8/27/2019		0.15 (J)	<0.1					
8/28/2019	0.074 (J)			0.055 (J)	<0.1	<0.1		
8/29/2019							0.41	0.087 (J)
10/15/2019		0.16 (J)						
10/16/2019				0.11 (J)	0.076 (J)		0.39	0.22 (J)
12/3/2019						0.19 (J)		
12/4/2019	0.18 (J)		0.11 (J)					
3/3/2020								
3/4/2020	<0.1	0.07 (J)		<0.1	<0.1		0.14 (J)	0.1 (J)
3/5/2020			<0.1			<0.1		
8/18/2020								
8/19/2020	0.19	0.17	<0.1	0.12				

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 10/23/2023 6:51 PM View: Appendix III - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWC-27I	BRGWC-25I	BRGWC-32S	BRGWC-29I	BRGWC-47	BRGWC-45	BRGWC-50	BRGWC-52I
8/20/2020					<0.1	<0.1	0.39	0.23
9/15/2020		0.15		0.057 (J)				
9/16/2020	0.15		<0.1		<0.1	0.052 (J)		
9/17/2020							0.46	0.074 (J)
3/1/2021								
3/2/2021		0.15			<0.1	0.067 (J)		
3/3/2021	0.24			0.13				
3/4/2021			<0.1				0.6	0.28
9/21/2021								
9/22/2021								
9/23/2021					<0.1	0.06 (J)		
9/27/2021							0.43	
9/28/2021	0.16	0.15	<0.1	0.081 (J)				0.12
2/1/2022								
2/2/2022		0.15	<0.1		<0.1	<0.1		0.098 (J)
2/3/2022				0.11			0.42	
2/4/2022	0.14							
8/23/2022		0.186			<0.1			
8/24/2022				0.103			0.497	
8/25/2022	0.234		0.138			0.166		0.157
1/24/2023			0.082 (J)					
1/25/2023	0.152					0.163	0.432	0.169
1/26/2023		0.202		0.0935 (J)	0.117			
8/23/2023			0.0477 (J)					
8/24/2023							0.499	
8/25/2023	0.302	0.25		0.0849 (J)	0.243	0.185		0.188 (J)

Prediction Limit

Constituent: pH, Field (S.U.) Analysis Run 10/23/2023 6:51 PM View: Appendix III - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWA-5S (bg)	BRGWA-5I (bg)	BRGWA-2S (bg)	BRGWA-2I (bg)	BRGWA-12I (bg)	BRGWA-6S (bg)	BRGWA-12S (bg)	BRGWC-30I	BRGWA-23S (bg)
8/31/2016	6.59	6.53	6.2	7.16					
9/1/2016					6.71	6.49	6		
9/6/2016								6.23	6.49
9/8/2016									
11/15/2016	6.67					6.59			
11/16/2016		6.4	6.12	6.96	6.15		6		
11/17/2016									5.79
11/18/2016									
11/21/2016								6.23	
2/20/2017	6.65	6.44				6.61			
2/21/2017			6.24	7.15	6.52		6.09		6.15
2/22/2017								6.16	
6/12/2017	6.64	6.4		7.31					
6/13/2017			6.19		6.42		6.03		5.87
6/14/2017					6.51			6.16	
9/26/2017	6.58	6.31	6.15	7.02	6.42	6.47	5.85		5.82
9/27/2017								6.16	
2/13/2018	6.72	6.62	6.18	7.44		6.54			
2/14/2018					6.48		5.99	6.24	5.83
3/15/2018									
5/1/2018									
6/26/2018	6.43	6.29	6.05	6.93	6.2	6.23	5.86		5.73
6/27/2018									
6/28/2018								6.21	
7/31/2018					6.37		5.99		
8/1/2018									
8/10/2018									
8/23/2018									
9/19/2018									
10/29/2018									
11/28/2018									
12/18/2018	6.7	6.57	5.92	6.76	6.5	6.71	6.08	6.18	5.78
12/19/2018									
12/20/2018									
1/16/2019									
1/17/2019									
2/13/2019									
3/6/2019									
3/19/2019	6.63	6.45	6.18	6.87	6.28	6.18	5.71		5.28
3/20/2019								6.24	
8/27/2019	6.49	6.37	6.09	6.79	6.35	6.35	6	6.17	
8/28/2019									
8/29/2019									5.64
10/15/2019	7.01	6.77	6.06	6.57	6.8	6.36	6.61		5.7
10/16/2019									
10/17/2019								6.43	
3/3/2020	6.49	6.29	6.1	6.71	6.33	6.59	5.94		
3/4/2020									5.7
3/5/2020								5.99	
5/12/2020									
8/18/2020	6.41	6.29	6.06	6.59	6.25	6.33	5.75		5.56
8/19/2020								6.36	

Prediction Limit

Constituent: pH, Field (S.U.) Analysis Run 10/23/2023 6:51 PM View: Appendix III - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWA-5S (bg)	BRGWA-5I (bg)	BRGWA-2S (bg)	BRGWA-2I (bg)	BRGWA-12I (bg)	BRGWA-6S (bg)	BRGWA-12S (bg)	BRGWC-30I	BRGWA-23S (bg)
8/20/2020									
9/15/2020	6.25	6.27	6.01	6.64	6.01	6.43	6		5.72
9/16/2020								6.29	
9/17/2020									
3/1/2021				6.66		6.7			
3/2/2021	6.42	6.47	6.2		6.11		5.92		5.75
3/3/2021								6.29	
3/4/2021									
9/21/2021	6.36	6.32			6.53		5.87		
9/22/2021			6.06	6.78		6.48			5.72
9/23/2021									
9/27/2021									
9/28/2021								6.33	
2/1/2022	6.39	6.38	5.95	6.83	6.4	6.54	5.81		5.65
2/2/2022								6.34	
2/3/2022									
2/4/2022									
8/23/2022	6.36	6.24	5.95	6.67	6.39	6.51	5.9		5.66
8/24/2022								6.38	
8/25/2022									
1/24/2023	6.47	6.42	5.26	6.7	6.48	6.54	5.97		5.76
1/25/2023									
1/26/2023								6.28	
8/22/2023	6.09	6.36	5.97	6.91		6.27		6.44	5.89
8/23/2023									
8/24/2023									

Prediction Limit

Constituent: pH, Field (S.U.) Analysis Run 10/23/2023 6:51 PM View: Appendix III - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWC-25I	BRGWC-29I	BRGWC-32S	BRGWC-27I	BRGWC-45	BRGWC-50	BRGWC-47	BRGWC-52I
8/31/2016								
9/1/2016								
9/6/2016								
9/8/2016	6.07	4.62	5.89	5.51				
11/15/2016								
11/16/2016	5.96							
11/17/2016								
11/18/2016				5.53				
11/21/2016		4.44	5.56					
2/20/2017								
2/21/2017	5.98			5.63				
2/22/2017		4.42	5.87					
6/12/2017								
6/13/2017	5.96			5.57				
6/14/2017		4.45	5.83					
9/26/2017								
9/27/2017	5.85	4.33	5.87	5.53				
2/13/2018								
2/14/2018	5.94	4.42	6.01	5.83				
3/15/2018					5.26	5.26		
5/1/2018					6.14	5.38	5.85	
6/26/2018	5.87							
6/27/2018		4.37	5.83	5.53			5.87	
6/28/2018					5.88	5.03		
7/31/2018					6.07			
8/1/2018						5.22	5.79	
8/10/2018								6.28
8/23/2018								6.75
9/19/2018					5.9		5.71	6.48
10/29/2018					5.93	5.19	5.76	6.77
11/28/2018					5.99	5.28	5.74	6.44
12/18/2018	5.84	4.38						
12/19/2018			5.79			5.15	5.8	
12/20/2018				5.78	6.04			6.75
1/16/2019						5.14		
1/17/2019								6.41
2/13/2019								6.42
3/6/2019						6.15		
3/19/2019				5.75			5.89	
3/20/2019	6.03	4.4	5.88		6.1	5.32		6.59
8/27/2019	6.01		5.85					
8/28/2019		4.39		5.51	5.86		5.74	
8/29/2019						5.2		6.27
10/15/2019	6							
10/16/2019		4.79				5.36	5.9	7
10/17/2019			6.09	6.01 (D)	5.93			
3/3/2020								
3/4/2020	6.02	4.5		5.8		5.2	5.76	6.54
3/5/2020			5.74		5.95			
5/12/2020			5.88					
8/18/2020								
8/19/2020	6.32	4.67	5.97	5.81				

Prediction Limit

Constituent: pH, Field (S.U.) Analysis Run 10/23/2023 6:51 PM View: Appendix III - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWC-25I	BRGWC-29I	BRGWC-32S	BRGWC-27I	BRGWC-45	BRGWC-50	BRGWC-47	BRGWC-52I
8/20/2020					5.86	5.26	5.75	6.85
9/15/2020	6	4.53						
9/16/2020			5.79	5.81	5.27		5.76	
9/17/2020						4.41		6.12
3/1/2021								
3/2/2021	6.1				6.17		5.59	
3/3/2021		4.46		5.9				
3/4/2021			5.98			4.34		5.87
9/21/2021								
9/22/2021								
9/23/2021					5.95		5.74	
9/27/2021						5.05		
9/28/2021	5.97	4.23	5.82	5.82				6.81
2/1/2022								
2/2/2022	6.23		5.99		5.92		5.75	6.35
2/3/2022		4.23				5.2		
2/4/2022				5.97				
8/23/2022	6.11						5.61	
8/24/2022		4.39				5.01		
8/25/2022			6.06	6.03	5.74			6.21
1/24/2023			6.05					
1/25/2023				5.63	5.82	5.18		6.25
1/26/2023	6.18	4.3					5.65	
8/22/2023			5.98					
8/23/2023						5.12		
8/24/2023	6.14	4.48		6.01	5.71		5.69	6.24

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 10/23/2023 6:51 PM View: Appendix III - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWA-5S (bg)	BRGWA-5I (bg)	BRGWA-2S (bg)	BRGWA-2I (bg)	BRGWA-12I (bg)	BRGWA-6S (bg)	BRGWA-12S (bg)	BRGWC-30I	BRGWA-23S (bg)
8/31/2016	0.81 (J)	2.7	0.38 (J)	7.5					
9/1/2016					2.7	0.6 (J)	1.7		
9/6/2016								310	38
9/8/2016									
11/15/2016	<1 (J)					0.68 (J)			
11/16/2016		3.4	<1 (J)	6.6	3.6		1.2		
11/17/2016									84
11/18/2016									
11/21/2016								300	
2/20/2017	1 (B-01)	3.9 (B-01)				0.98 (J)			
2/21/2017			1.5	6.1	3		1.1		39
2/22/2017								280	
6/12/2017	0.94 (J)	3.7		5		0.54 (J)			
6/13/2017			0.67 (J)				1.1		35
6/14/2017					2.6			290	
9/26/2017	0.92 (J)	4.1	0.62 (J)	5.4	2.5	0.53 (J)	1.3		89
9/27/2017								260	
2/13/2018	<1	6.6	<1	4.7 (J)		<1			
2/14/2018					2.1 (J)		<1	250	82.2
3/6/2018									
3/15/2018									
5/1/2018									
6/26/2018	0.91 (J)	3.5	0.69 (J)	6.2	2	0.54 (J)	0.84 (J)		84.2
6/27/2018									
6/28/2018								276	
7/31/2018					1.9		0.63 (J)		
8/1/2018									
8/10/2018									
8/23/2018									
9/19/2018									
10/29/2018									
11/28/2018									
12/18/2018	0.68 (J)	4.3	0.72 (J)	5.9	2.1	0.39 (J)	0.66 (J)	440	83.4
12/19/2018									
12/20/2018									
1/16/2019									
1/17/2019									
2/13/2019									
3/19/2019	0.74 (J)	3	0.78 (J)	6 (D)	2.2	0.68 (J)	0.75 (J)		65
3/20/2019								623	
10/15/2019	0.68 (J)	3.8	0.47 (J)	5.2	1.9	0.48 (J)	0.61 (J)		30
10/16/2019									
12/3/2019									
12/4/2019								327	
3/3/2020	0.71 (J)	2.8	0.93 (J)	7.1	1.8	2.5	0.51 (J)		
3/4/2020									38.6
3/5/2020								369	
9/15/2020	<1	1.7	<1	5.9	1.7	<1	<1		41.5
9/16/2020								334	
9/17/2020									
3/1/2021				4.7		0.74 (J)			
3/2/2021	<1	2.2	<1		1.7		0.51 (J)		54

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 10/23/2023 6:51 PM View: Appendix III - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWA-5S (bg)	BRGWA-5I (bg)	BRGWA-2S (bg)	BRGWA-2I (bg)	BRGWA-12I (bg)	BRGWA-6S (bg)	BRGWA-12S (bg)	BRGWC-30I	BRGWA-23S (bg)
3/3/2021								371	
3/4/2021									
9/21/2021	<1	2.3			1.7		0.51 (J)		
9/22/2021			<1	5.2		<1			34.6
9/23/2021									
9/27/2021									
9/28/2021								612	
2/1/2022	<1	2	<1	5.4	1.4	<1	<1		36.8
2/2/2022								580	
2/3/2022									
2/4/2022									
8/23/2022	0.521	2.21	0.452	5.66	1.84	0.479	0.636		24.4
8/24/2022								935	
8/25/2022									
1/24/2023	0.66	3.34	0.465	3.58	1.8	0.484	0.628		19.7
1/25/2023									
1/26/2023								1030	
8/23/2023	0.54	1.83	0.526	6.85		0.467			11.3
8/24/2023								1250	
8/25/2023									
8/26/2023									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 10/23/2023 6:51 PM View: Appendix III - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWC-25I	BRGWC-29I	BRGWC-32S	BRGWC-27I	BRGWC-47	BRGWC-45	BRGWC-50	BRGWC-52I
8/31/2016								
9/1/2016								
9/6/2016								
9/8/2016	280	460	370	300				
11/15/2016								
11/16/2016								
11/17/2016	200							
11/18/2016				320				
11/21/2016		500	420					
2/20/2017								
2/21/2017	360			270				
2/22/2017		570	380					
6/12/2017								
6/13/2017	290			230				
6/14/2017		440	400					
9/26/2017								
9/27/2017	310	380	400	260				
2/13/2018								
2/14/2018	260	280	383	232				
3/6/2018					1560	111		
3/15/2018							1590	
5/1/2018					1465 (D)	112	1550	
6/26/2018	231							
6/27/2018		281	372	205	1450			
6/28/2018						109	1530	
7/31/2018						107		
8/1/2018					1560		1580	
8/10/2018								183
8/23/2018					1470	108		145
9/19/2018					1500	117		178
10/29/2018					1720	127	1750	157
11/28/2018					1730	133	1780	189
12/18/2018	231	293						
12/19/2018			370		1520		1650	
12/20/2018				200		113		150
1/16/2019							589 (O)	
1/17/2019								157
2/13/2019								169
3/19/2019				199	1100			
3/20/2019	235 (D)	278	409			127	1740	186.5 (D)
10/15/2019	174							
10/16/2019		266			1560		1590	155
12/3/2019						105		
12/4/2019			293	241				
3/3/2020								
3/4/2020	165	238		205	1380		1370	129
3/5/2020			269			106		
9/15/2020	126	241						
9/16/2020			255	190	1360	103		
9/17/2020							1330	165
3/1/2021								
3/2/2021	139				1360	98.3		

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 10/23/2023 6:51 PM View: Appendix III - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWC-25I	BRGWC-29I	BRGWC-32S	BRGWC-27I	BRGWC-47	BRGWC-45	BRGWC-50	BRGWC-52I
3/3/2021		341		172				
3/4/2021			185				1250	114
9/21/2021								
9/22/2021								
9/23/2021					1240	97.5		
9/27/2021							1180	
9/28/2021	112	250	189	137				132
2/1/2022								
2/2/2022	117		210		1170	90.1		126
2/3/2022		274					1270	
2/4/2022				172				
8/23/2022	158				1410			
8/24/2022		298					1400	
8/25/2022			254	176		114		142
1/24/2023			247					
1/25/2023				150		102	1290	145
1/26/2023	182	293			1310			
8/23/2023								
8/24/2023			256					
8/25/2023	174				1300		1290	150
8/26/2023		288		94.5		114		

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 10/23/2023 6:51 PM View: Appendix III - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWA-5S (bg)	BRGWA-5I (bg)	BRGWA-2S (bg)	BRGWA-2I (bg)	BRGWA-12I (bg)	BRGWA-12S (bg)	BRGWC-30I	BRGWA-23S (bg)	BRGWC-25I
8/31/2016	154	138	88	151					
9/1/2016					142	69			
9/6/2016							505	146	
9/8/2016									460
11/15/2016	123								
11/16/2016		77	41	69	100	100			
11/17/2016								211	611
11/18/2016									
11/21/2016							515		
2/20/2017	158	170							
2/21/2017			<10	68	71	37		151	497
2/22/2017							504		
6/12/2017	142	132		161					
6/13/2017			53			84		130	474
6/14/2017					140		536		
9/26/2017	138	108	45	167	149	68		160	
9/27/2017							432		457
2/13/2018	150	141	63	165					
2/14/2018					137	138	448	194	431
3/6/2018									
3/15/2018									
5/1/2018									
6/26/2018	154	133	71	188	142	90		221	414
6/27/2018									
6/28/2018							494		
7/31/2018					133	83			
8/1/2018									
8/10/2018									
8/23/2018									
9/19/2018									
10/29/2018									
11/28/2018									
12/18/2018	147	138 (X)	78 (X)	145 (X)	135	85	715	208	401
12/19/2018									
12/20/2018									
1/16/2019									
1/17/2019									
2/13/2019									
3/19/2019	146	130	68	146.5 (D)	132 (JX)	82 (JX)		161 (JX)	
3/20/2019							885		410.5 (D)
10/15/2019	144	175	66	140	134	89		124	380
10/16/2019									
12/3/2019									
12/4/2019							612		
3/3/2020	130	<10	41	155	115	72			
3/4/2020								118	330
3/5/2020							681		
9/15/2020	116	100	69	116	95	60		109	272
9/16/2020							634		
9/17/2020									
3/1/2021				98					
3/2/2021	96	80	43		93	43		105	280

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 10/23/2023 6:51 PM View: Appendix III - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWA-5S (bg)	BRGWA-5I (bg)	BRGWA-2S (bg)	BRGWA-2I (bg)	BRGWA-12I (bg)	BRGWA-12S (bg)	BRGWC-30I	BRGWA-23S (bg)	BRGWC-25I
3/3/2021							690		
3/4/2021									
9/21/2021	104	108			117	56			
9/22/2021			66	129				128	
9/23/2021									
9/27/2021									
9/28/2021							1050		270
2/1/2022	124	129	72	126	114	63		130	
2/2/2022							1110		283
2/3/2022									
2/4/2022									
8/23/2022	101	107	45	117	104	55		103	315
8/24/2022							1540		
8/25/2022									
1/24/2023	104	124	63	93	114	59		102	
1/25/2023									
1/26/2023							1680		339
8/25/2023	73		36				1920	70	
8/28/2023		80		81					
8/30/2023									354

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 10/23/2023 6:51 PM View: Appendix III - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWC-29I	BRGWC-32S	BRGWC-27I	BRGWA-6S (bg)	BRGWC-45	BRGWC-47	BRGWC-50	BRGWC-52I
8/31/2016								
9/1/2016				299 (o)				
9/6/2016								
9/8/2016	654	607	478					
11/15/2016				41				
11/16/2016								
11/17/2016								
11/18/2016			503					
11/21/2016	819	695						
2/20/2017				133				
2/21/2017			380					
2/22/2017	721	635						
6/12/2017				61				
6/13/2017			354					
6/14/2017	661	635						
9/26/2017				29				
9/27/2017	518	601	376					
2/13/2018				61				
2/14/2018	487	628	503 (JX)					
3/6/2018					346	2200		
3/15/2018							2440	
5/1/2018					374	2080 (D)	2190	
6/26/2018				71				
6/27/2018	648 (X)	2280	458 (X)			31 (OX)		
6/28/2018					333		2290	
7/31/2018					393			
8/1/2018						2190	2360	
8/10/2018								344
8/23/2018					350	2160		333
9/19/2018					353	2160		364
10/29/2018					329	2130	2300	334
11/28/2018					358	2320	2300	357
12/18/2018	407			70 (X)				
12/19/2018		605				2060	2190	
12/20/2018			344		322			355
1/16/2019							2270	
1/17/2019								347
2/13/2019								350
3/19/2019			334 (JX)	72		2050 (JX)		
3/20/2019	391	564			302		2280	360 (D)
10/15/2019				63				
10/16/2019	2030					2220	2280	346
12/3/2019					362			
12/4/2019		526	422					
3/3/2020				54				
3/4/2020	391		326			2140	2270	351
3/5/2020		489			297			
9/15/2020	281			79				
9/16/2020		428	301		275	2090		
9/17/2020							1910	329
3/1/2021				39				
3/2/2021					264	1680		

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 10/23/2023 6:51 PM View: Appendix III - B,C,D

Plant Branch Data: Plant Branch AP

	BRGWC-29I	BRGWC-32S	BRGWC-27I	BRGWA-6S (bg)	BRGWC-45	BRGWC-47	BRGWC-50	BRGWC-52I
3/3/2021	515		288					
3/4/2021		350					1520	383
9/21/2021								
9/22/2021				62				
9/23/2021					277	1770		
9/27/2021							1800	
9/28/2021	457	375	262					336
2/1/2022				61				
2/2/2022		443			276	1850		160
2/3/2022	419						1850	
2/4/2022			301					
8/23/2022				52		2060		
8/24/2022	383						1990	
8/25/2022		437	311		248			296
1/24/2023		425		64				
1/25/2023			260		251		2040	276
1/26/2023	419					2010		
8/25/2023		412						
8/28/2023				30				
8/30/2023	418		309		242	1970	2180	281

FIGURE E.

Appendix III Trend Tests - Significant Results

Plant Branch Data: Plant Branch AP Printed 10/23/2023, 7:09 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	BRGWC-29I	-0.1078	-78	-68	Yes	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWC-47	0.03626	77	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWA-23S (bg)	-1.372	-92	-68	Yes	18	5.556	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWA-6S (bg)	0.1264	80	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWC-25I	-3.579	-71	-68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWC-30I	34.59	130	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWC-45	-2.018	-82	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWA-12I (bg)	-0.1919	-99	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWA-23S (bg)	-0.2007	-93	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWA-5I (bg)	-0.1548	-84	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWA-5S (bg)	-0.07449	-75	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWC-45	-7.89	-105	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWC-50	-2.03	-109	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWC-52I	-0.2483	-81	-68	Yes	18	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	BRGWA-5I (bg)	0.006424	91	81	Yes	20	65	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWA-2I (bg)	-0.07157	-82	-81	Yes	20	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWA-2S (bg)	-0.03999	-100	-81	Yes	20	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWA-5S (bg)	-0.05423	-104	-81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-12I (bg)	-0.2108	-113	-68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-12S (bg)	-0.126	-88	-68	Yes	18	16.67	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-23S (bg)	-8.828	-75	-68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-25I	-25.4	-87	-68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-27I	-22.62	-121	-68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-30I	75	93	68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-32S	-28.81	-89	-68	Yes	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWA-23S (bg)	-13.07	-86	-68	Yes	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWA-5S (bg)	-8.69	-93	-68	Yes	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-25I	-37.57	-103	-68	Yes	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-27I	-25.03	-101	-68	Yes	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-29I	-49.93	-75	-68	Yes	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-30I	125.3	107	68	Yes	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-32S	-41.37	-106	-68	Yes	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-45	-23.69	-117	-74	Yes	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-47	-43.29	-75	-68	Yes	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-50	-73.18	-79	-68	Yes	18	0	n/a	n/a	0.01	NP

Appendix III Trend Tests - All Results

Plant Branch Data: Plant Branch AP Printed 10/23/2023, 7:09 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	BRGWA-12I (bg)	-0.00006578	-7	-63	No	17	17.65	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWA-12S (bg)	0	-7	-63	No	17	76.47	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWA-23S (bg)	0.001812	22	68	No	18	11.11	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWA-2I (bg)	0.0001886	17	68	No	18	27.78	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWA-2S (bg)	0	-16	-68	No	18	83.33	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWA-5I (bg)	0	-15	-68	No	18	72.22	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWA-5S (bg)	0	-8	-68	No	18	55.56	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWA-6S (bg)	0	-11	-68	No	18	72.22	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWC-25I	-0.05112	-32	-68	No	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWC-27I	-0.08885	-68	-74	No	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	**BRGWC-29I**	**-0.1078**	**-78**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	BRGWC-30I	0.05341	45	74	No	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWC-32S	-0.05767	-56	-74	No	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	**BRGWC-47**	**0.03626**	**77**	**74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	BRGWC-50	0.008541	42	68	No	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWC-52I	0.05214	45	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWA-12I (bg)	-0.2348	-12	-68	No	18	5.556	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWA-12S (bg)	0.1273	28	68	No	18	5.556	n/a	n/a	0.01	NP
Calcium (mg/L)	**BRGWA-23S (bg)**	**-1.372**	**-92**	**-68**	**Yes**	**18**	**5.556**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	BRGWA-2I (bg)	0.3318	33	68	No	18	5.556	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWA-2S (bg)	0.149	63	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWA-5I (bg)	0.103	21	68	No	18	5.556	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWA-5S (bg)	-0.5359	-55	-68	No	18	5.556	n/a	n/a	0.01	NP
Calcium (mg/L)	**BRGWA-6S (bg)**	**0.1264**	**80**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**BRGWC-25I**	**-3.579**	**-71**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	BRGWC-27I	-3.17	-67	-68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWC-29I	-4.144	-49	-68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**BRGWC-30I**	**34.59**	**130**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	BRGWC-32S	-3.414	-67	-68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**BRGWC-45**	**-2.018**	**-82**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	BRGWC-47	1.347	14	74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWC-50	-6.102	-62	-68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWC-52I	-0.2829	-8	-63	No	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**BRGWA-12I (bg)**	**-0.1919**	**-99**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	BRGWA-12S (bg)	0.06545	54	68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**BRGWA-23S (bg)**	**-0.2007**	**-93**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	BRGWA-2I (bg)	-0.03364	-41	-68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWA-2S (bg)	0	2	68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**BRGWA-5I (bg)**	**-0.1548**	**-84**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**BRGWA-5S (bg)**	**-0.07449**	**-75**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	BRGWA-6S (bg)	-0.001816	-21	-68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWC-25I	-0.409	-54	-68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWC-29I	-0.1739	-57	-68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**BRGWC-45**	**-7.89**	**-105**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**BRGWC-50**	**-2.03**	**-109**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**BRGWC-52I**	**-0.2483**	**-81**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Fluoride (mg/L)	BRGWA-12I (bg)	-0.008595	-35	-74	No	19	21.05	n/a	n/a	0.01	NP
Fluoride (mg/L)	BRGWA-12S (bg)	0	63	74	No	19	63.16	n/a	n/a	0.01	NP
Fluoride (mg/L)	BRGWA-23S (bg)	0	17	81	No	20	50	n/a	n/a	0.01	NP
Fluoride (mg/L)	BRGWA-2I (bg)	0	3	81	No	20	50	n/a	n/a	0.01	NP
Fluoride (mg/L)	BRGWA-2S (bg)	0.005022	75	81	No	20	60	n/a	n/a	0.01	NP
Fluoride (mg/L)	**BRGWA-5I (bg)**	**0.006424**	**91**	**81**	**Yes**	**20**	**65**	**n/a**	**n/a**	**0.01**	**NP**
Fluoride (mg/L)	BRGWA-5S (bg)	0	15	81	No	20	35	n/a	n/a	0.01	NP
Fluoride (mg/L)	BRGWA-6S (bg)	0.003384	66	81	No	20	55	n/a	n/a	0.01	NP
Fluoride (mg/L)	BRGWC-50	-0.03378	-23	-81	No	20	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWA-12I (bg)	-0.02367	-36	-87	No	21	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWA-12S (bg)	-0.01755	-49	-81	No	20	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWA-23S (bg)	-0.03095	-60	-81	No	20	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	**BRGWA-2I (bg)**	**-0.07157**	**-82**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (S.U.)	**BRGWA-2S (bg)**	**-0.03999**	**-100**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (S.U.)	BRGWA-5I (bg)	-0.01794	-48	-81	No	20	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	**BRGWA-5S (bg)**	**-0.05423**	**-104**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (S.U.)	BRGWA-6S (bg)	-0.006594	-9	-74	No	19	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWC-29I	-0.01574	-23	-81	No	20	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWC-50	-0.03717	-62	-87	No	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**BRGWA-12I (bg)**	**-0.2108**	**-113**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**BRGWA-12S (bg)**	**-0.126**	**-88**	**-68**	**Yes**	**18**	**16.67**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**BRGWA-23S (bg)**	**-8.828**	**-75**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**

Appendix III Trend Tests - All Results

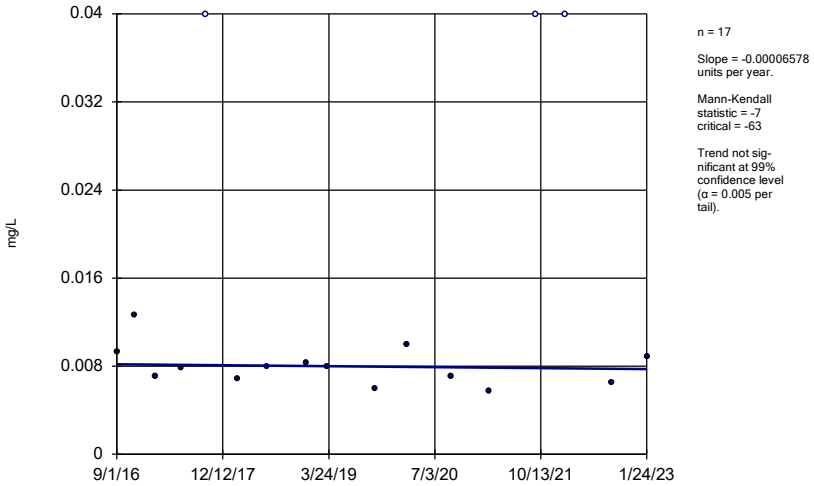
Plant Branch Data: Plant Branch AP Printed 10/23/2023, 7:09 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Sulfate (mg/L)	BRGWA-2I (bg)	-0.1349	-35	-68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-2S (bg)	0	-4	-68	No	18	33.33	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-5I (bg)	-0.2786	-63	-68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-5S (bg)	-0.0299	-41	-68	No	18	33.33	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-6S (bg)	-0.00337	-11	-68	No	18	22.22	n/a	n/a	0.01	NP
Sulfate (mg/L)	**BRGWC-25I**	**-25.4**	**-87**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**BRGWC-27I**	**-22.62**	**-121**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	BRGWC-29I	-25.24	-62	-68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**BRGWC-30I**	**75**	**93**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**BRGWC-32S**	**-28.81**	**-89**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	BRGWC-45	-2.7	-47	-74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-47	-51.06	-73	-74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-50	-87.99	-62	-63	No	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-52I	-7.645	-56	-68	No	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWA-12I (bg)	-5.117	-61	-68	No	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWA-12S (bg)	-5.699	-57	-68	No	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	**BRGWA-23S (bg)**	**-13.07**	**-86**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	BRGWA-2I (bg)	-8.462	-53	-68	No	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWA-2S (bg)	-0.5826	-5	-68	No	18	5.556	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWA-5I (bg)	-4.727	-44	-68	No	18	5.556	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	**BRGWA-5S (bg)**	**-8.69**	**-93**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	BRGWA-6S (bg)	-1.676	-17	-63	No	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	**BRGWC-25I**	**-37.57**	**-103**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**BRGWC-27I**	**-25.03**	**-101**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**BRGWC-29I**	**-49.93**	**-75**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**BRGWC-30I**	**125.3**	**107**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**BRGWC-32S**	**-41.37**	**-106**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**BRGWC-45**	**-23.69**	**-117**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**BRGWC-47**	**-43.29**	**-75**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**BRGWC-50**	**-73.18**	**-79**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	BRGWC-52I	-11.87	-51	-68	No	18	0	n/a	n/a	0.01	NP

Sanitas™ v.10.0.13 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-12I (bg)



n = 17

Slope = -0.00006578 units per year.

Mann-Kendall statistic = -7
critical = -63

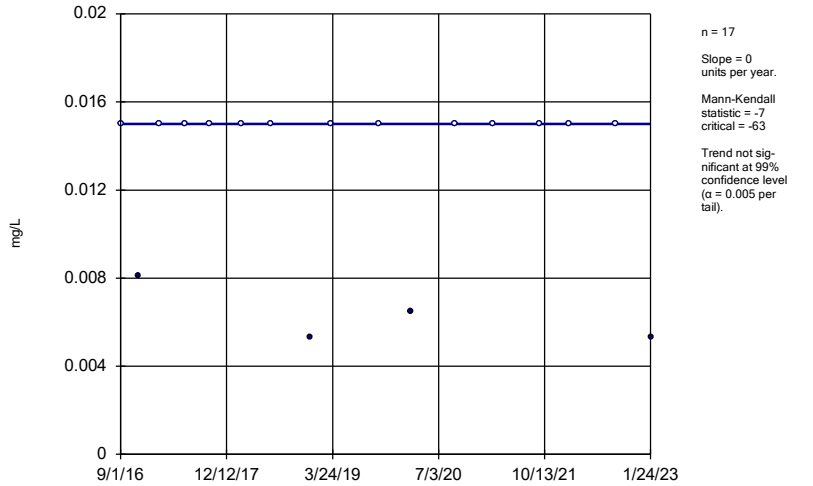
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/23/2023 7:02 PM View: Appendix III - Trend Test - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-12S (bg)



n = 17

Slope = 0 units per year.

Mann-Kendall statistic = -7
critical = -63

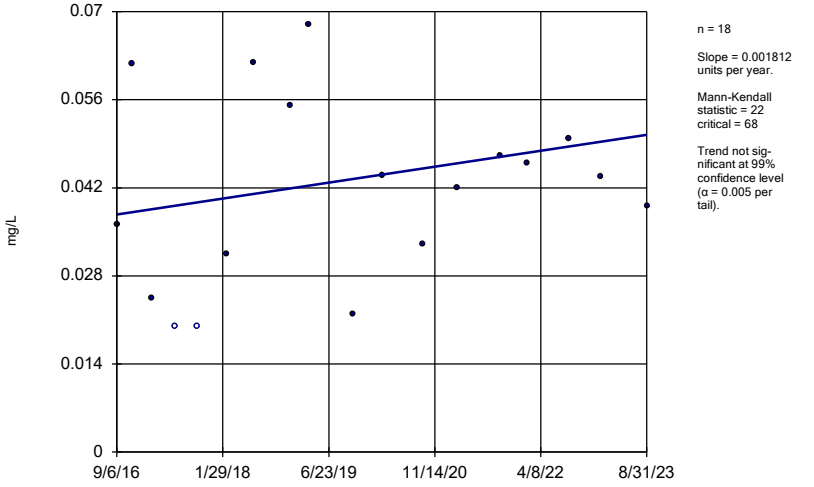
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/23/2023 7:02 PM View: Appendix III - Trend Test - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-23S (bg)



n = 18

Slope = 0.001812 units per year.

Mann-Kendall statistic = 22
critical = 68

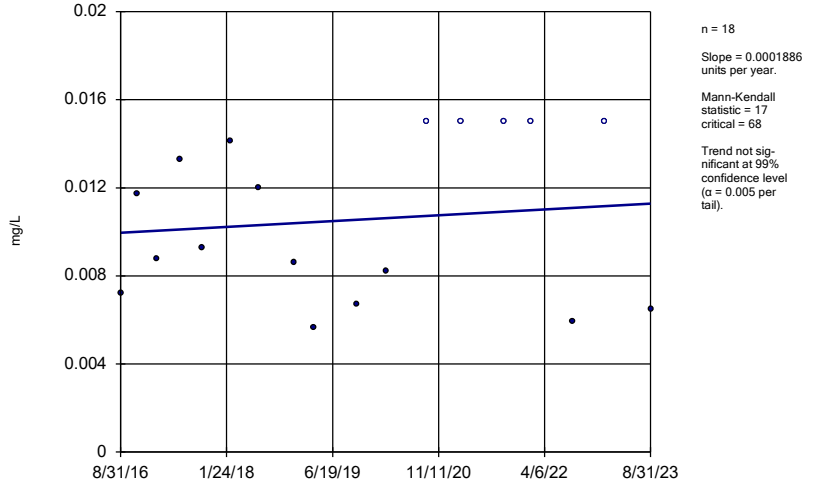
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/23/2023 7:02 PM View: Appendix III - Trend Test - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-2I (bg)



n = 18

Slope = 0.0001886 units per year.

Mann-Kendall statistic = 17
critical = 68

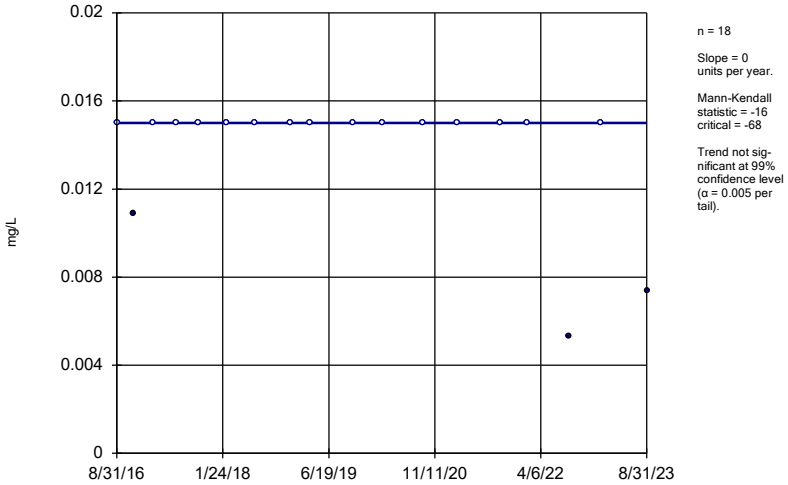
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/23/2023 7:02 PM View: Appendix III - Trend Test - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-2S (bg)



n = 18

Slope = 0 units per year.

Mann-Kendall statistic = -16
critical = -68

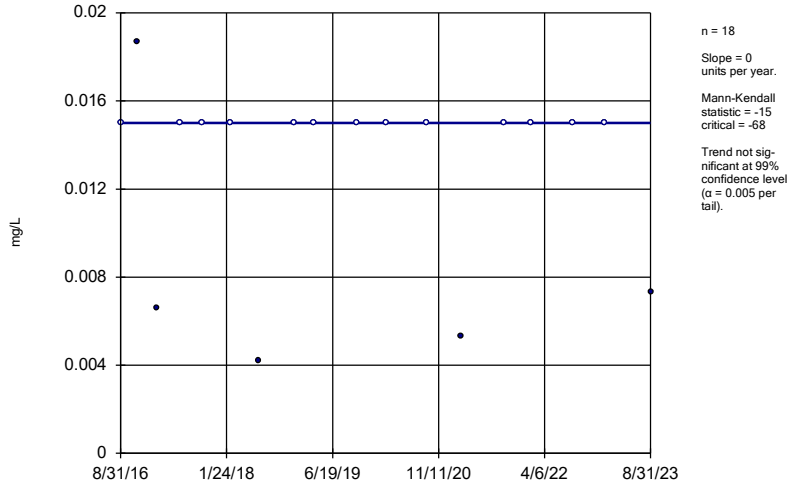
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/23/2023 7:02 PM View: Appendix III - Trend Test - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-5I (bg)



n = 18

Slope = 0 units per year.

Mann-Kendall statistic = -15
critical = -68

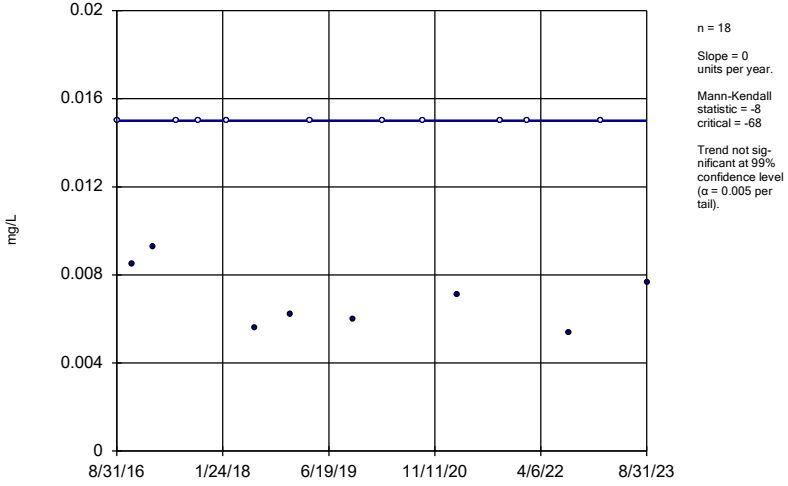
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/23/2023 7:02 PM View: Appendix III - Trend Test - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-5S (bg)



n = 18

Slope = 0 units per year.

Mann-Kendall statistic = -8
critical = -68

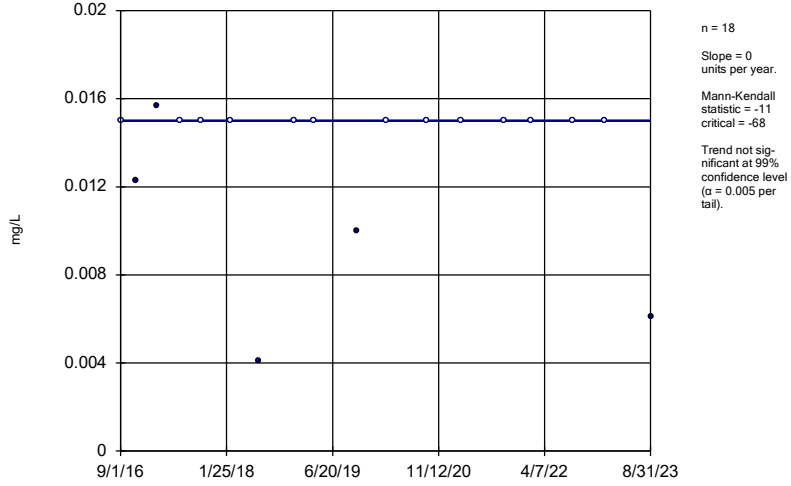
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/23/2023 7:02 PM View: Appendix III - Trend Test - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-6S (bg)



n = 18

Slope = 0 units per year.

Mann-Kendall statistic = -11
critical = -68

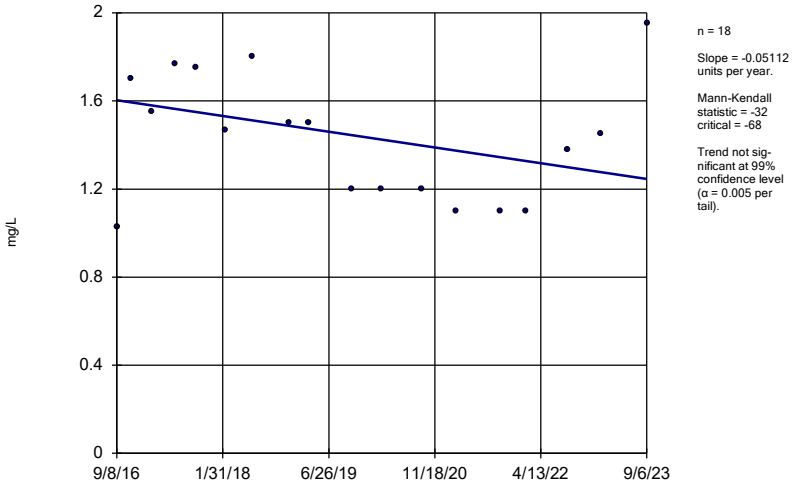
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

Sen's Slope Estimator

BRGWC-25I



n = 18

Slope = -0.05112 units per year.

Mann-Kendall statistic = -32
critical = -68

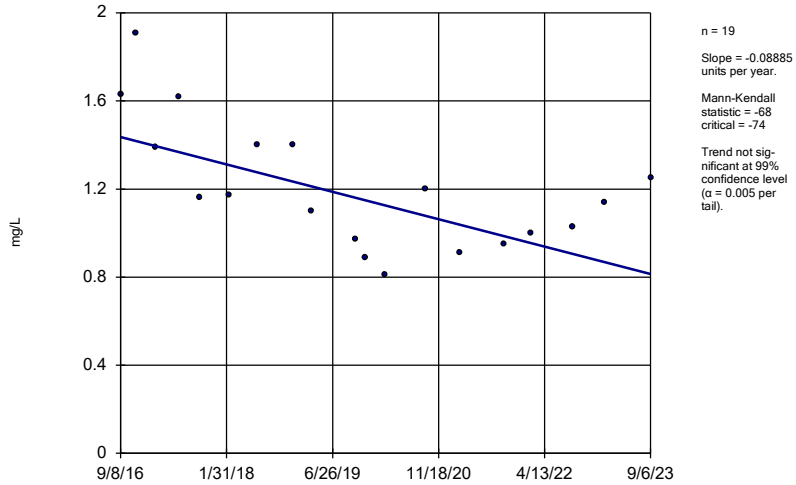
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

Sen's Slope Estimator

BRGWC-27I



n = 19

Slope = -0.08885 units per year.

Mann-Kendall statistic = -68
critical = -74

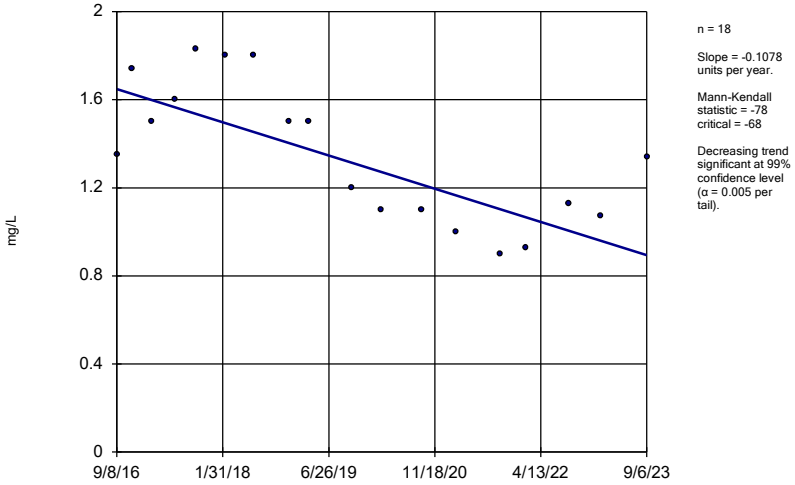
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

Sen's Slope Estimator

BRGWC-29I



n = 18

Slope = -0.1078 units per year.

Mann-Kendall statistic = -78
critical = -68

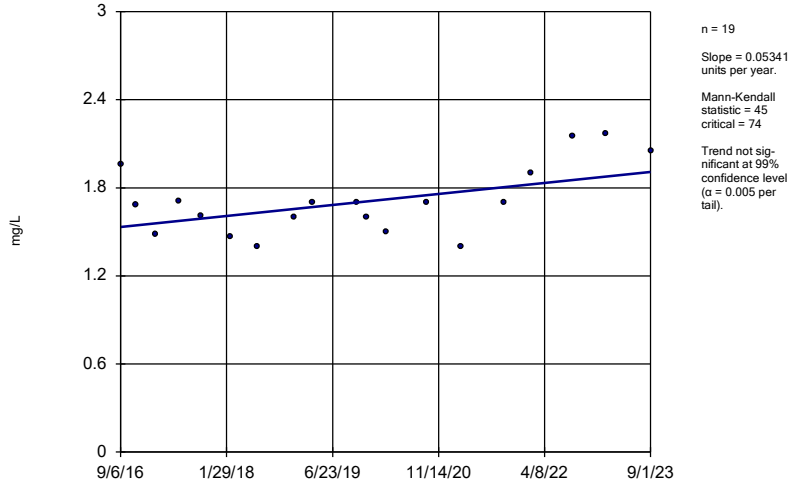
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

Sen's Slope Estimator

BRGWC-30I



n = 19

Slope = 0.05341 units per year.

Mann-Kendall statistic = 45
critical = 74

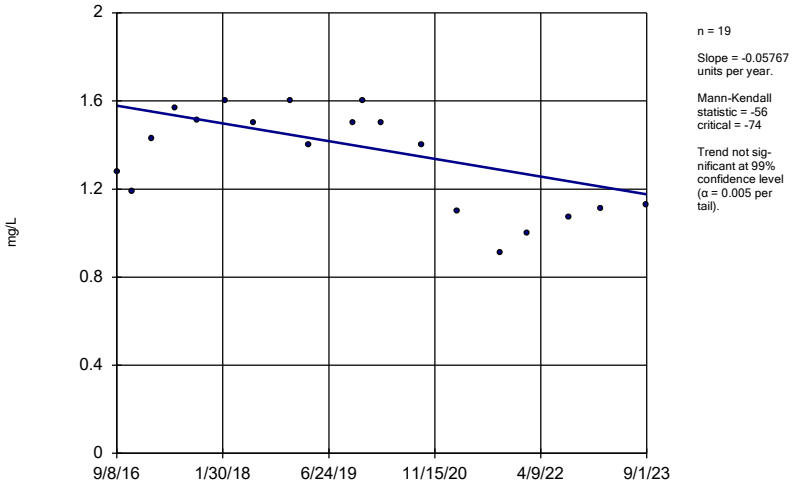
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

Sen's Slope Estimator

BRGWC-32S



n = 19

Slope = -0.05767 units per year.

Mann-Kendall statistic = -56
critical = -74

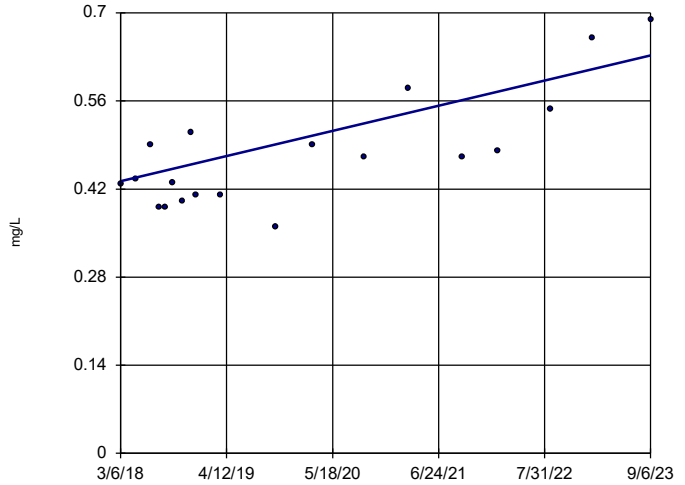
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

Sen's Slope Estimator

BRGWC-47



n = 19

Slope = 0.03626 units per year.

Mann-Kendall statistic = 77
critical = 74

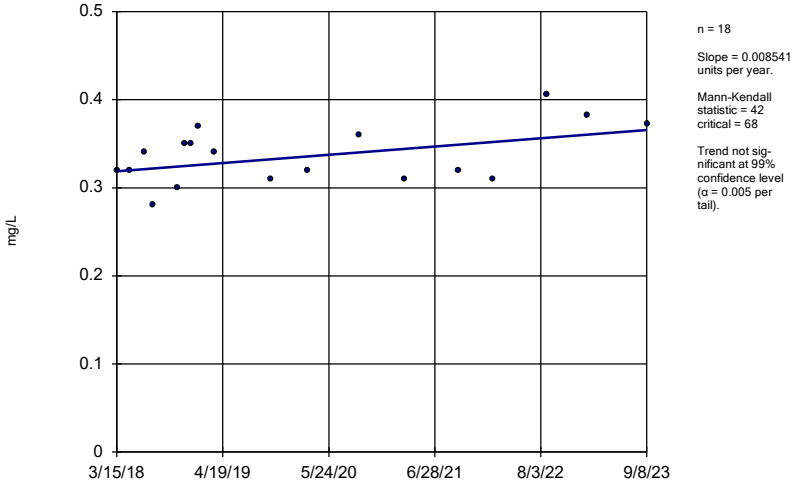
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

Sen's Slope Estimator

BRGWC-50



n = 18

Slope = 0.008541 units per year.

Mann-Kendall statistic = 42
critical = 68

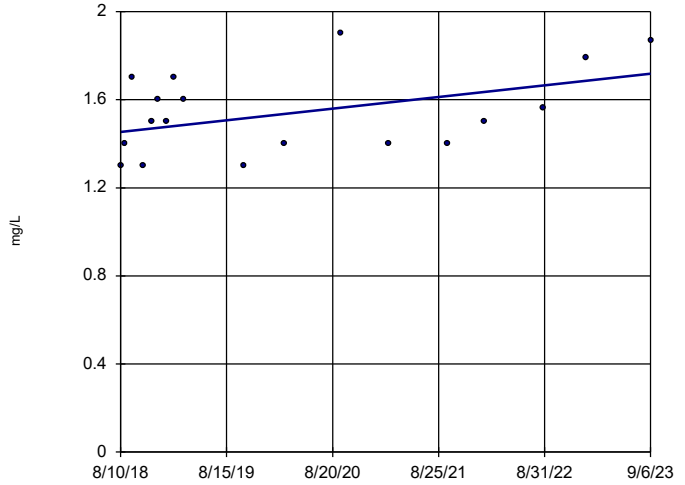
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

Sen's Slope Estimator

BRGWC-52I



n = 18

Slope = 0.05214 units per year.

Mann-Kendall statistic = 45
critical = 68

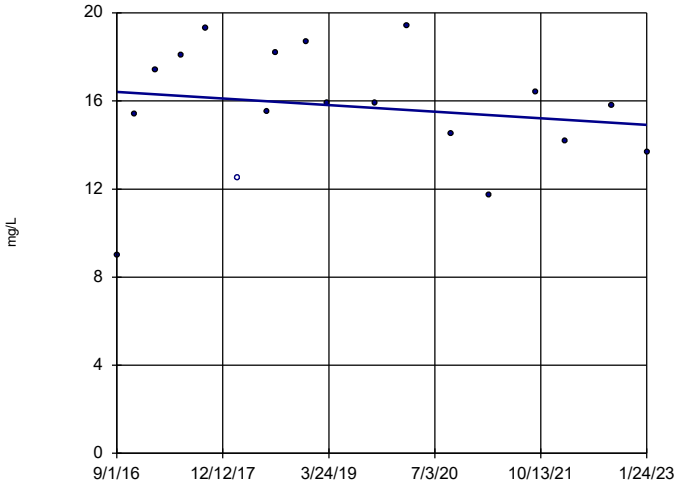
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-12I (bg)



n = 18

Slope = -0.2348 units per year.

Mann-Kendall statistic = -12
critical = -68

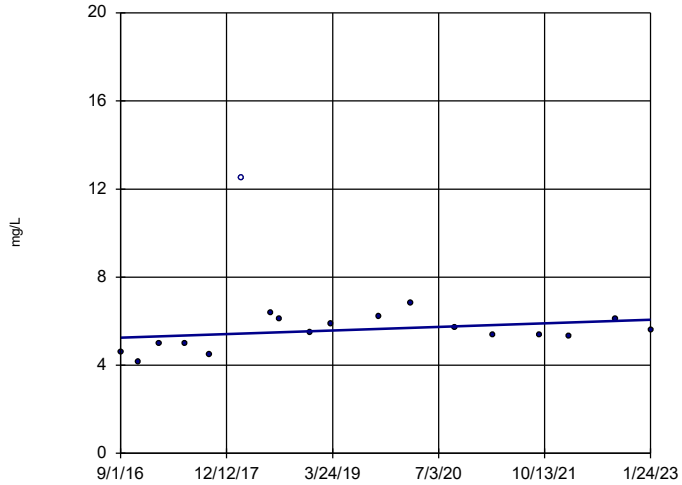
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-12S (bg)



n = 18

Slope = 0.1273 units per year.

Mann-Kendall statistic = 28
critical = 68

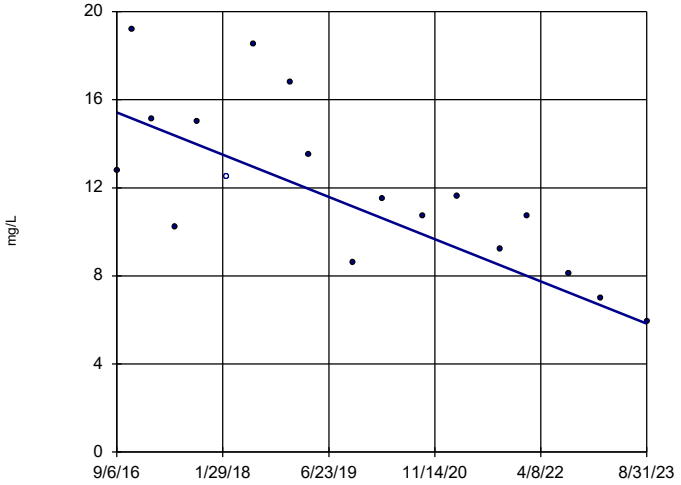
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-23S (bg)



n = 18

Slope = -1.372 units per year.

Mann-Kendall statistic = -92
critical = -68

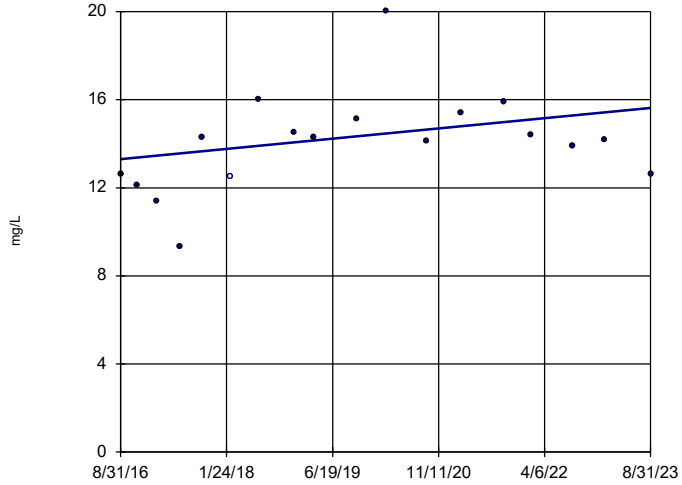
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-2I (bg)



n = 18

Slope = 0.3318 units per year.

Mann-Kendall statistic = 33
critical = 68

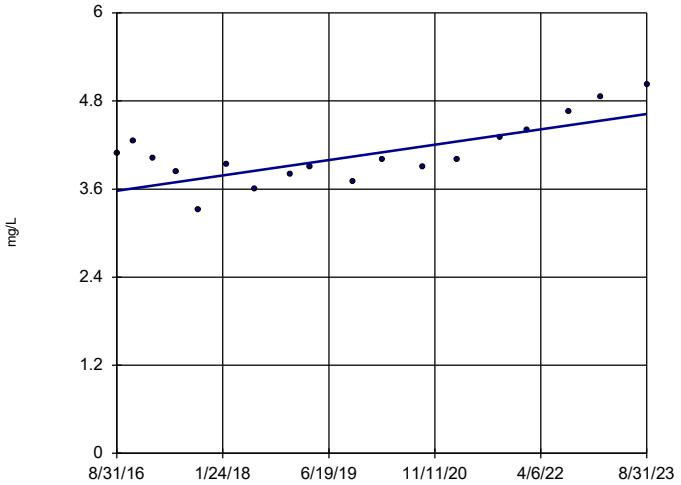
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

Sen's Slope Estimator

BRGWA-2S (bg)



n = 18

Slope = 0.149 units per year.

Mann-Kendall statistic = 63 critical = 68

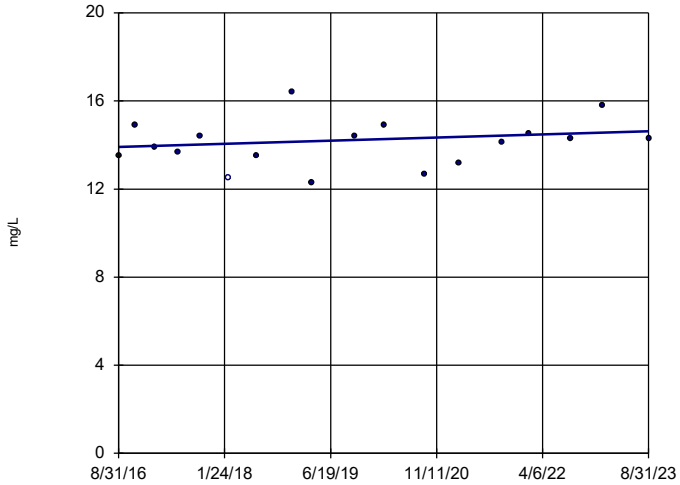
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-5I (bg)



n = 18

Slope = 0.103 units per year.

Mann-Kendall statistic = 21 critical = 68

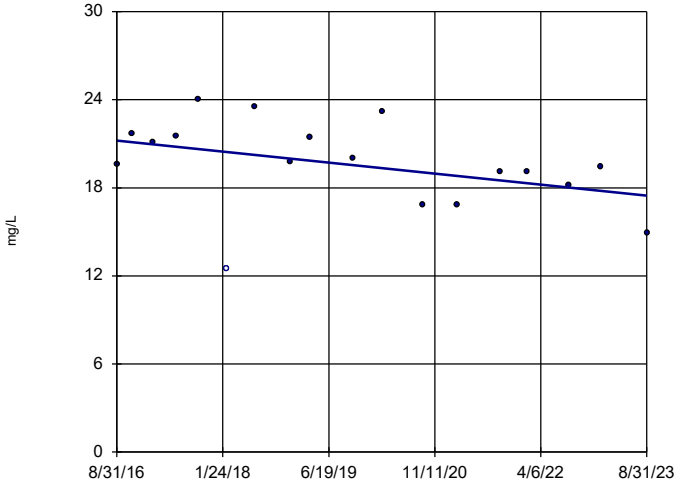
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-5S (bg)



n = 18

Slope = -0.5359 units per year.

Mann-Kendall statistic = -55 critical = -68

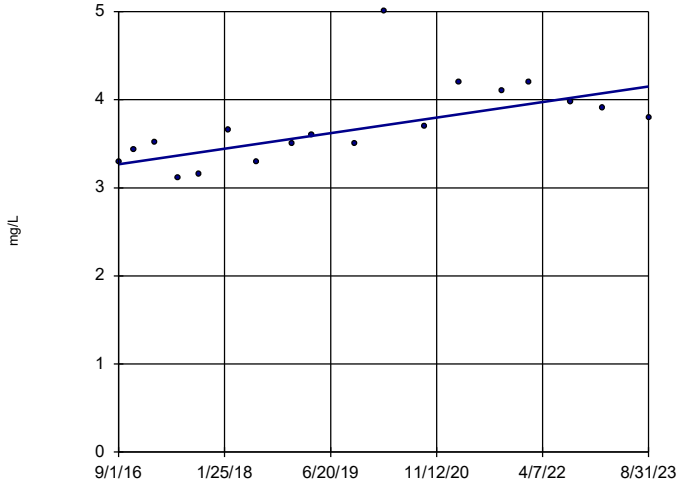
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

Sen's Slope Estimator

BRGWA-6S (bg)



n = 18

Slope = 0.1264 units per year.

Mann-Kendall statistic = 80 critical = 68

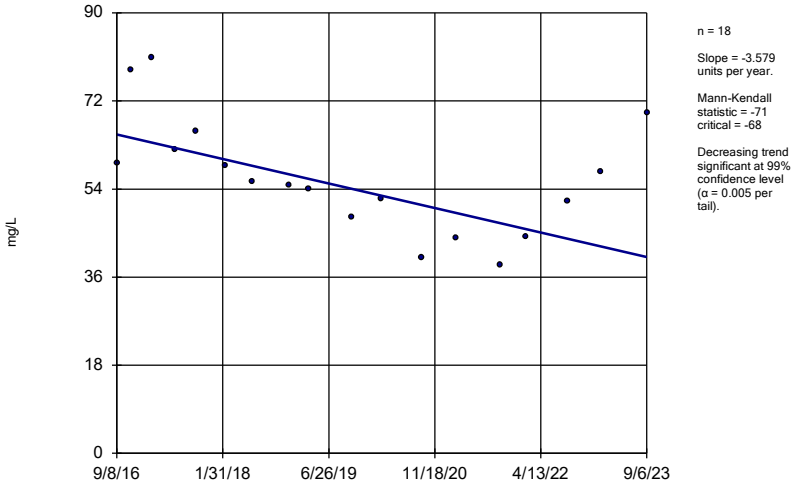
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

Sen's Slope Estimator

BRGWC-25I



n = 18

Slope = -3.579 units per year.

Mann-Kendall statistic = -71 critical = -68

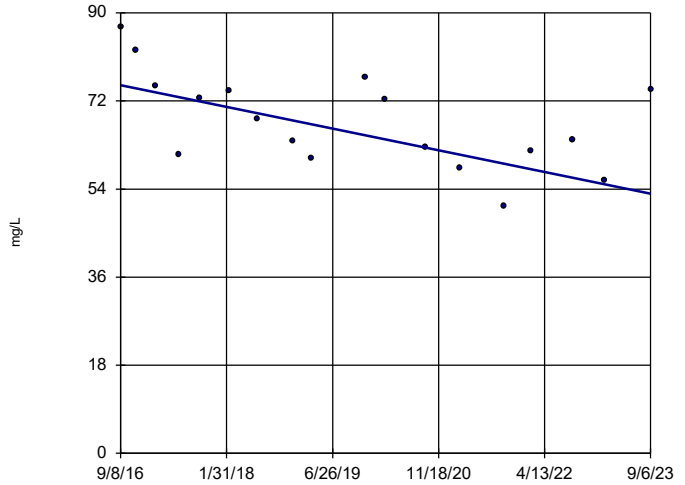
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

Sen's Slope Estimator

BRGWC-27I



n = 18

Slope = -3.17 units per year.

Mann-Kendall statistic = -67 critical = -68

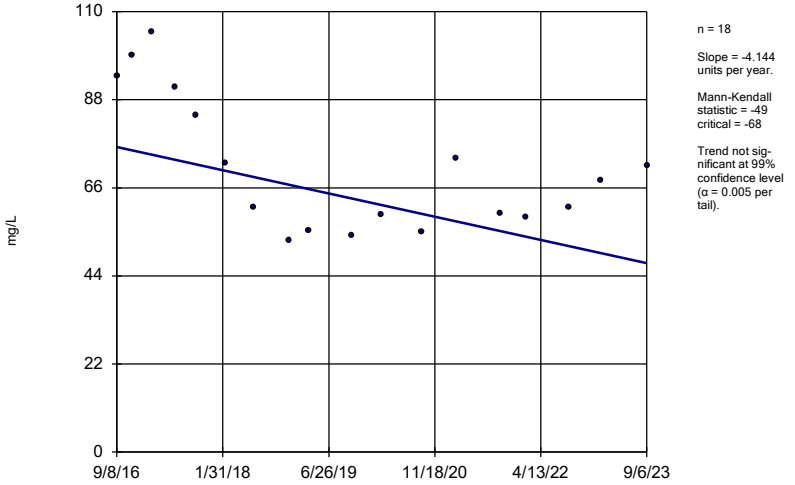
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

Sen's Slope Estimator

BRGWC-29I



n = 18

Slope = -4.144 units per year.

Mann-Kendall statistic = -49 critical = -68

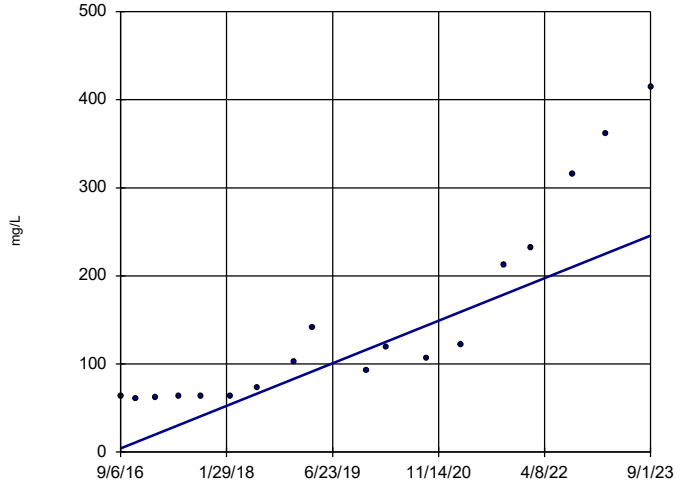
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

Sen's Slope Estimator

BRGWC-30I



n = 18

Slope = 34.59 units per year.

Mann-Kendall statistic = 130 critical = 68

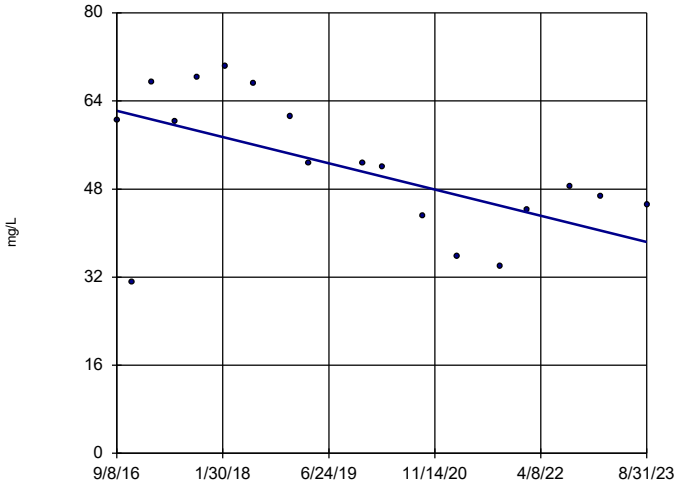
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

Sen's Slope Estimator

BRGWC-32S



n = 18

Slope = -3.414 units per year.

Mann-Kendall statistic = -67
critical = -68

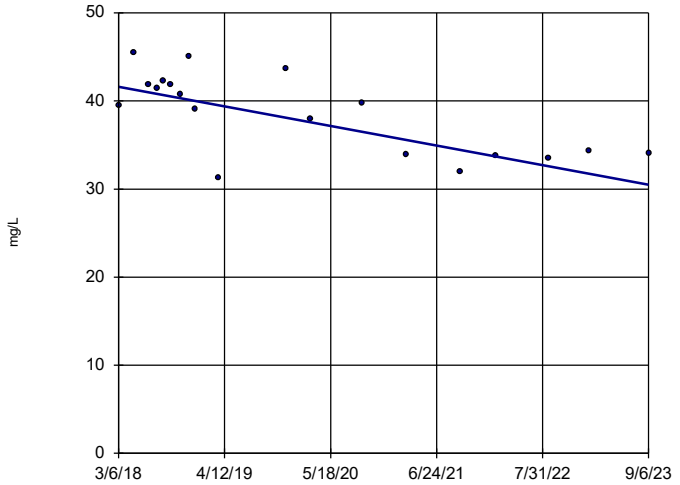
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

Sen's Slope Estimator

BRGWC-45



n = 19

Slope = -2.018 units per year.

Mann-Kendall statistic = -82
critical = -74

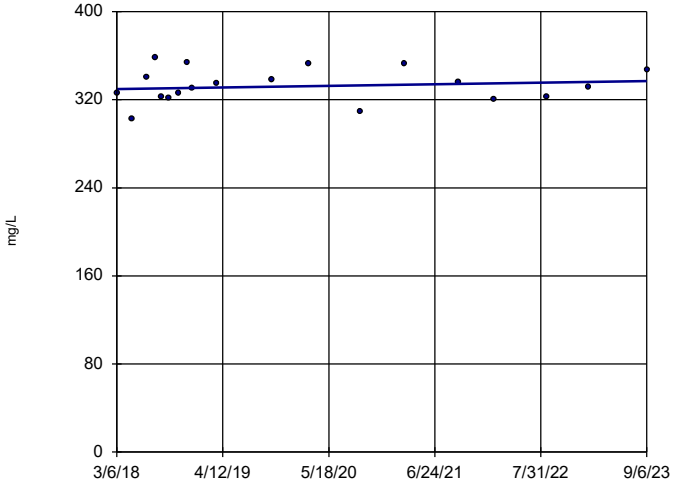
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

Sen's Slope Estimator

BRGWC-47



n = 19

Slope = 1.347 units per year.

Mann-Kendall statistic = 14
critical = 74

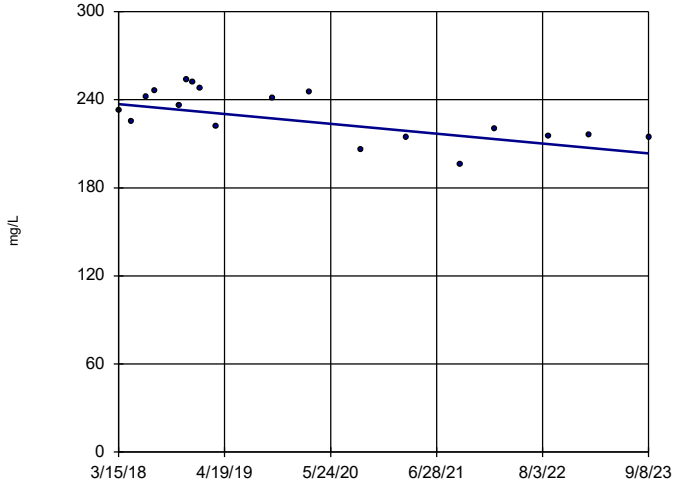
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

Sen's Slope Estimator

BRGWC-50



n = 18

Slope = -6.102 units per year.

Mann-Kendall statistic = -62
critical = -68

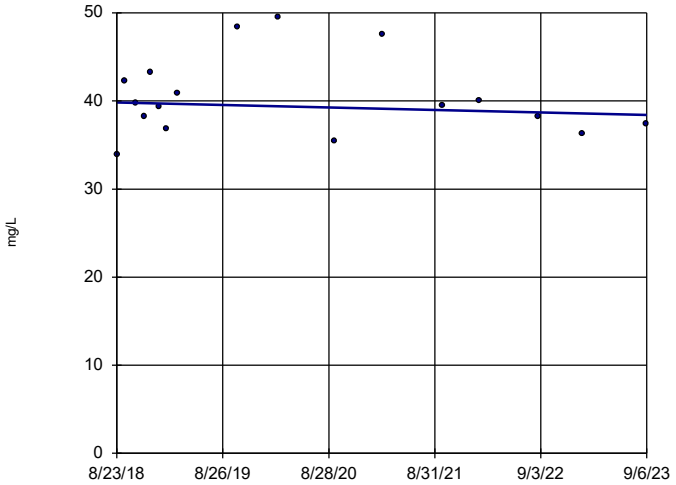
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

Sen's Slope Estimator

BRGWC-52I



n = 17

Slope = -0.2829 units per year.

Mann-Kendall statistic = -8 critical = -63

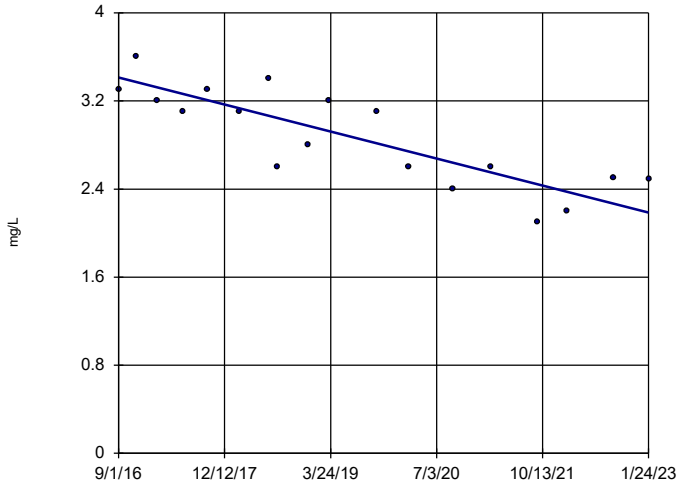
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

Sen's Slope Estimator

BRGWA-12I (bg)



n = 18

Slope = -0.1919 units per year.

Mann-Kendall statistic = -99 critical = -68

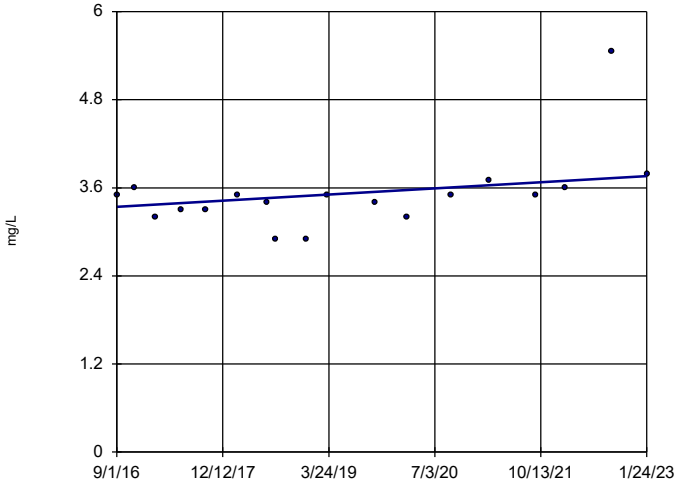
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

Sen's Slope Estimator

BRGWA-12S (bg)



n = 18

Slope = 0.06545 units per year.

Mann-Kendall statistic = 54 critical = 68

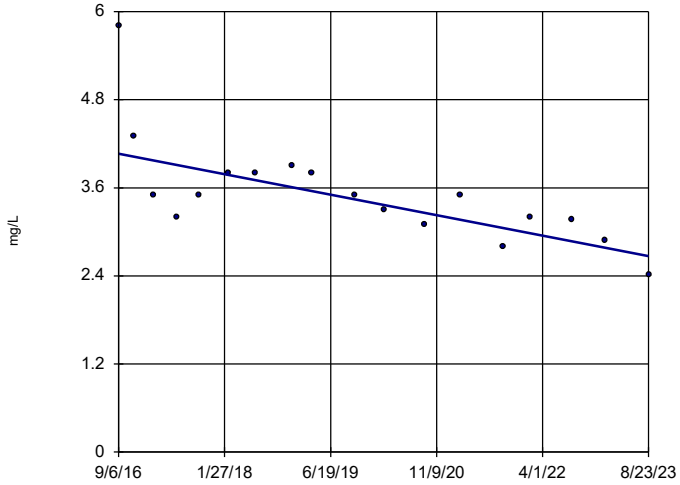
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

Sen's Slope Estimator

BRGWA-23S (bg)



n = 18

Slope = -0.2007 units per year.

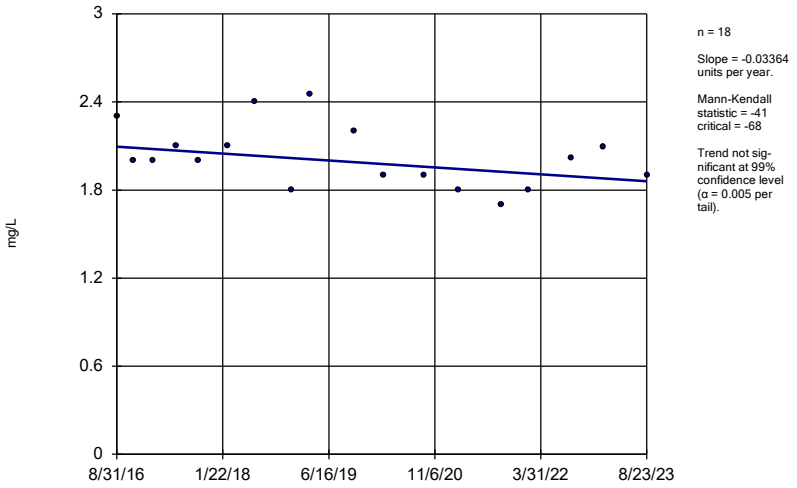
Mann-Kendall statistic = -93 critical = -68

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
Plant Branch Data: Plant Branch AP

Sen's Slope Estimator

BRGWA-2I (bg)



n = 18

Slope = -0.03364 units per year.

Mann-Kendall statistic = -41 critical = -68

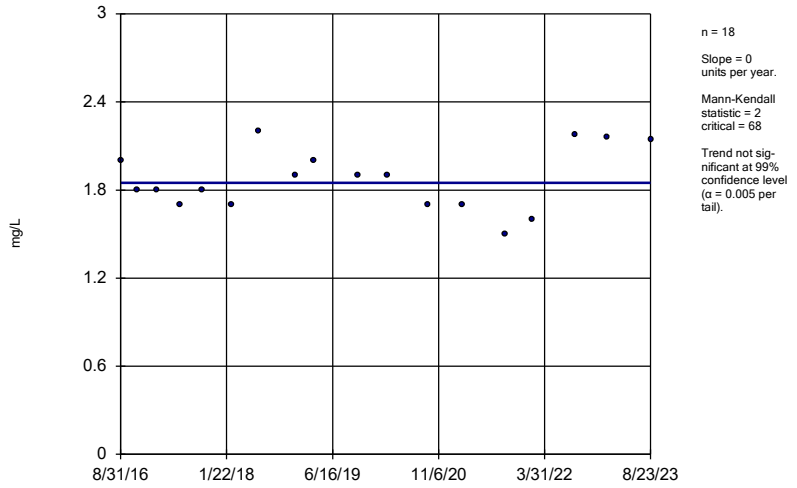
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

Sen's Slope Estimator

BRGWA-2S (bg)



n = 18

Slope = 0 units per year.

Mann-Kendall statistic = 2 critical = 68

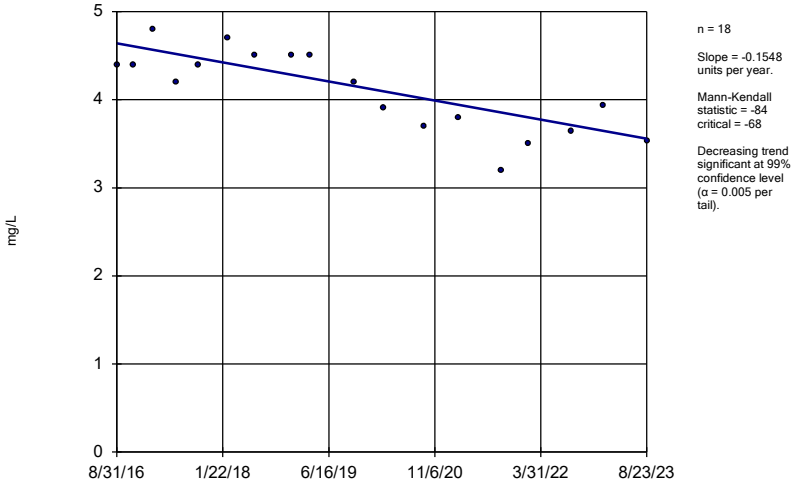
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

Sen's Slope Estimator

BRGWA-5I (bg)



n = 18

Slope = -0.1548 units per year.

Mann-Kendall statistic = -84 critical = -68

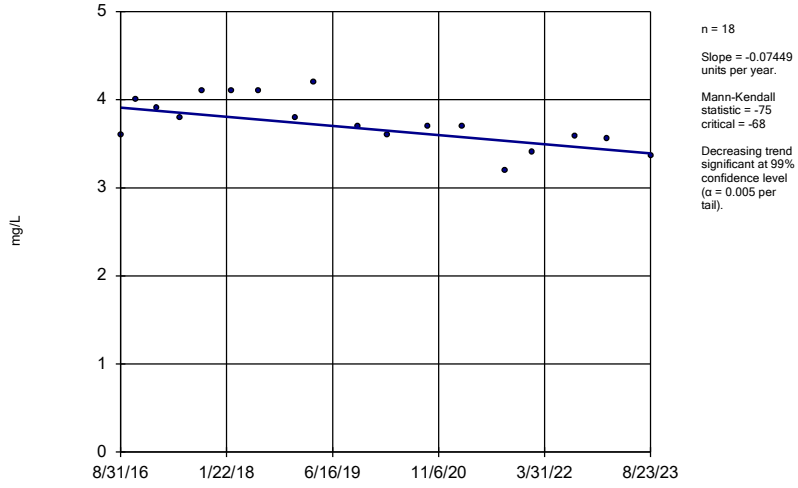
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

Sen's Slope Estimator

BRGWA-5S (bg)



n = 18

Slope = -0.07449 units per year.

Mann-Kendall statistic = -75 critical = -68

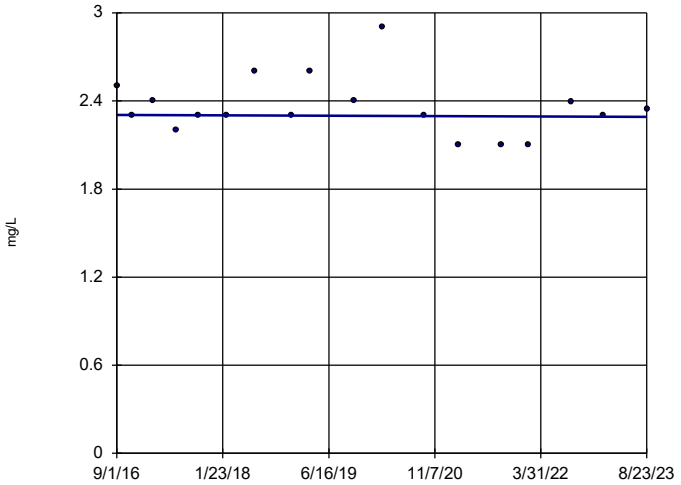
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

Sen's Slope Estimator

BRGWA-6S (bg)



n = 18

Slope = -0.001816 units per year.

Mann-Kendall statistic = -21 critical = -68

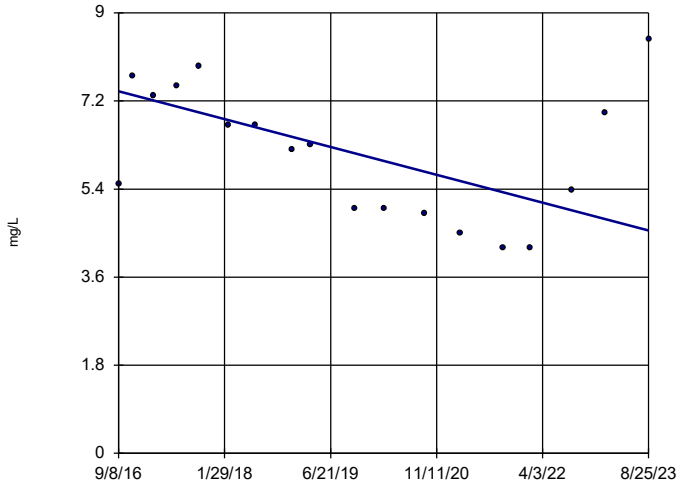
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

Sen's Slope Estimator

BRGWC-25I



n = 18

Slope = -0.409 units per year.

Mann-Kendall statistic = -54 critical = -68

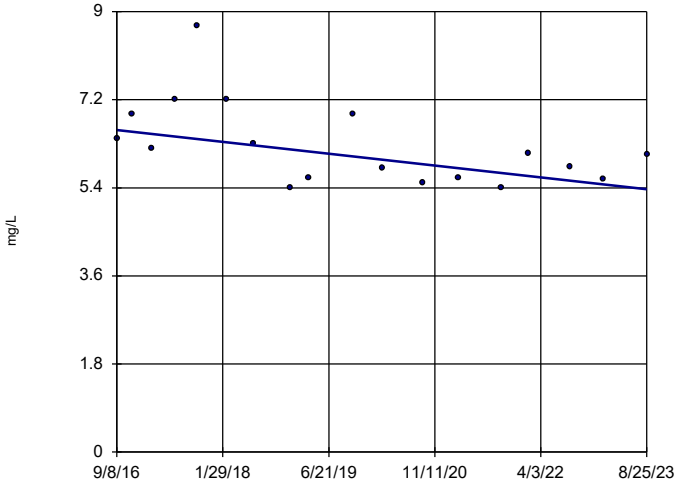
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

Sen's Slope Estimator

BRGWC-29I



n = 18

Slope = -0.1739 units per year.

Mann-Kendall statistic = -57 critical = -68

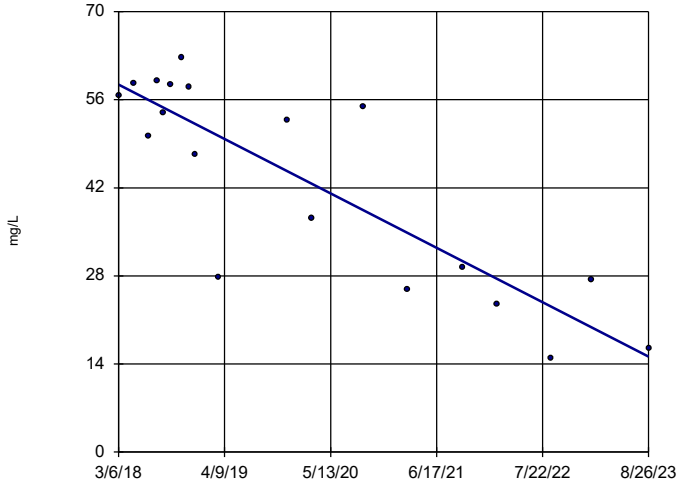
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

Sen's Slope Estimator

BRGWC-45



n = 19

Slope = -7.89 units per year.

Mann-Kendall statistic = -105 critical = -74

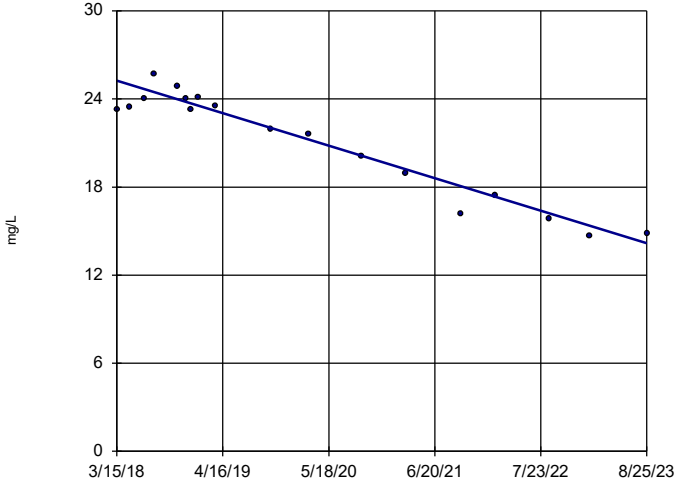
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

Sen's Slope Estimator

BRGWC-50



n = 18

Slope = -2.03 units per year.

Mann-Kendall statistic = -109 critical = -68

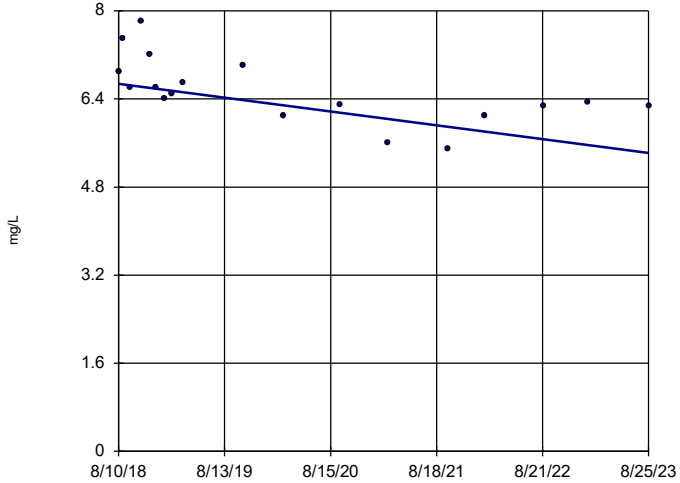
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

Sen's Slope Estimator

BRGWC-52I



n = 18

Slope = -0.2483 units per year.

Mann-Kendall statistic = -81 critical = -68

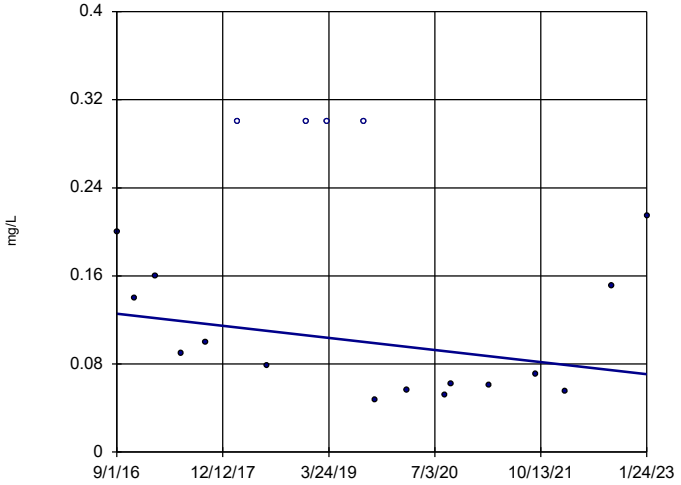
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-12I (bg)



n = 19

Slope = -0.008595 units per year.

Mann-Kendall statistic = -35 critical = -74

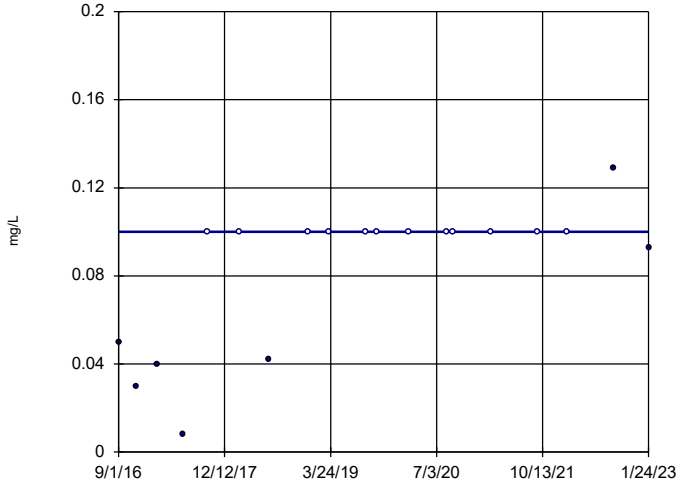
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-12S (bg)



n = 19

Slope = 0 units per year.

Mann-Kendall statistic = 63 critical = 74

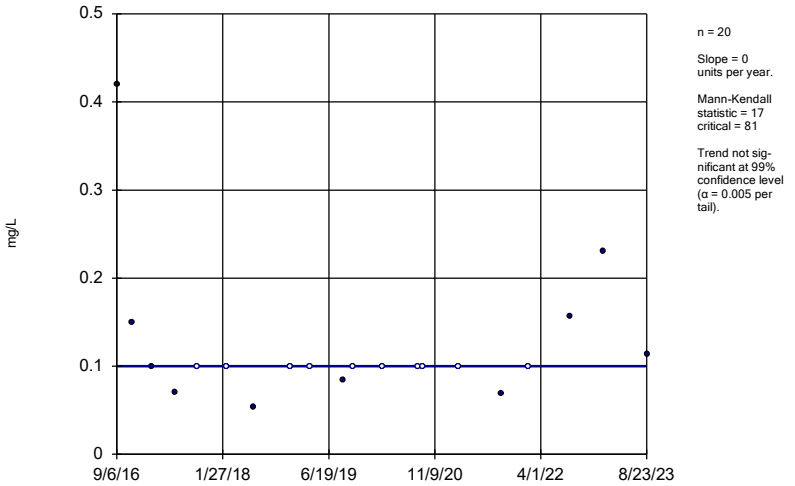
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-23S (bg)



n = 20

Slope = 0 units per year.

Mann-Kendall statistic = 17
critical = 81

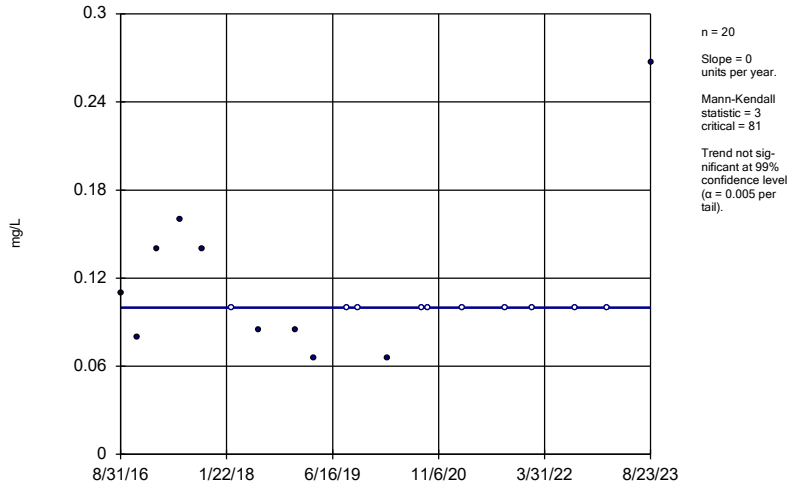
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-2I (bg)



n = 20

Slope = 0 units per year.

Mann-Kendall statistic = 3
critical = 81

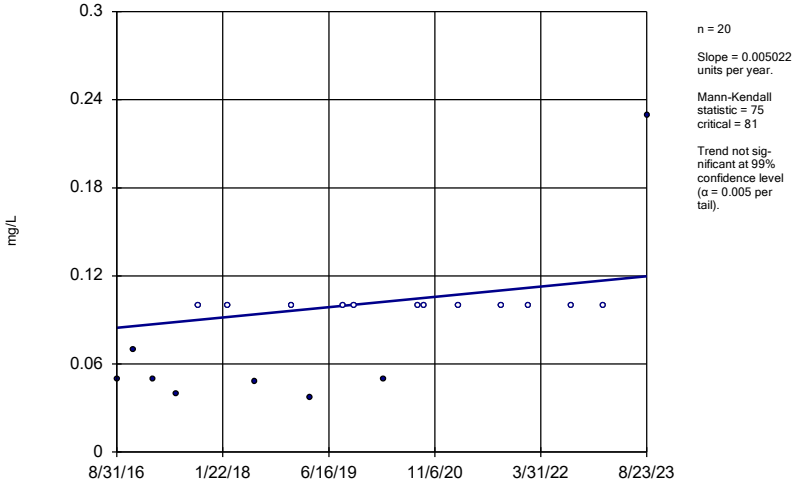
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-2S (bg)



n = 20

Slope = 0.005022 units per year.

Mann-Kendall statistic = 75
critical = 81

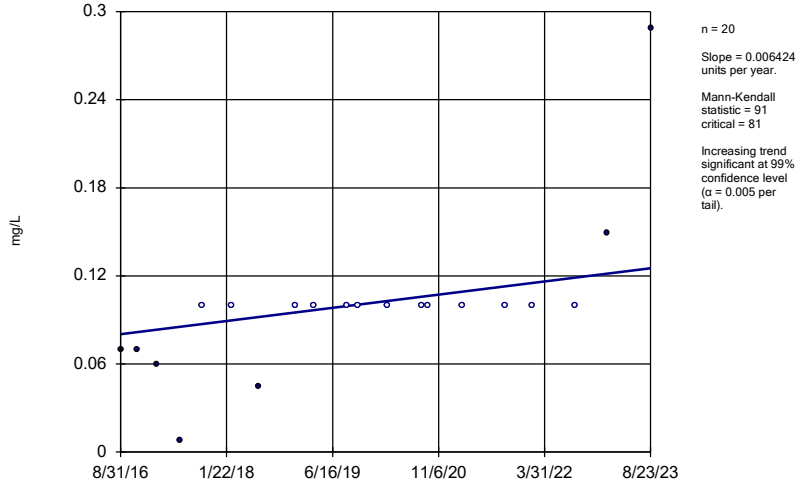
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-5I (bg)



n = 20

Slope = 0.006424 units per year.

Mann-Kendall statistic = 91
critical = 81

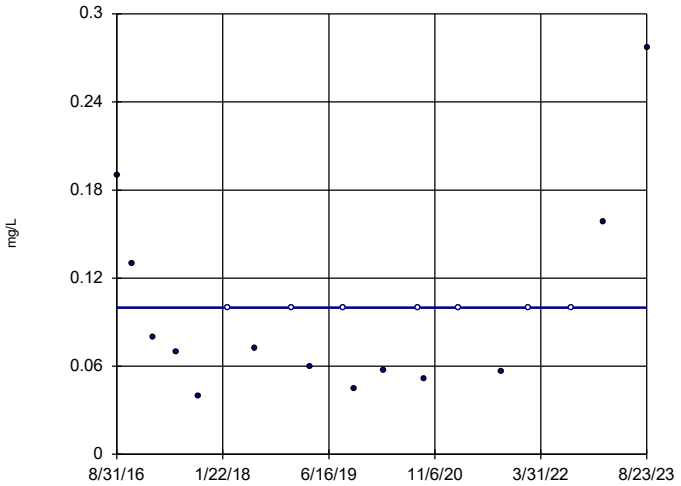
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-5S (bg)



n = 20

Slope = 0 units per year.

Mann-Kendall statistic = 15
critical = 81

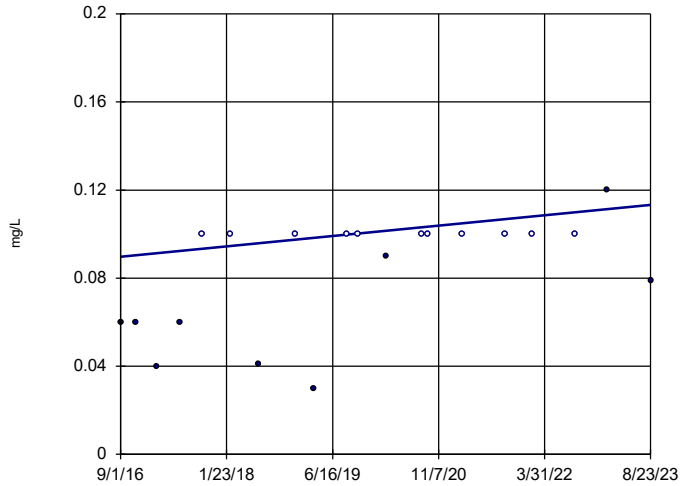
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-6S (bg)



n = 20

Slope = 0.003384 units per year.

Mann-Kendall statistic = 66
critical = 81

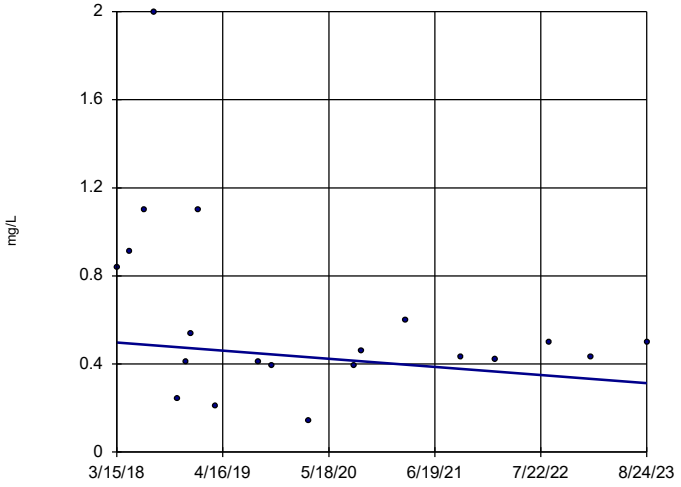
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

Sen's Slope Estimator

BRGWC-50



n = 20

Slope = -0.03378 units per year.

Mann-Kendall statistic = -23
critical = -81

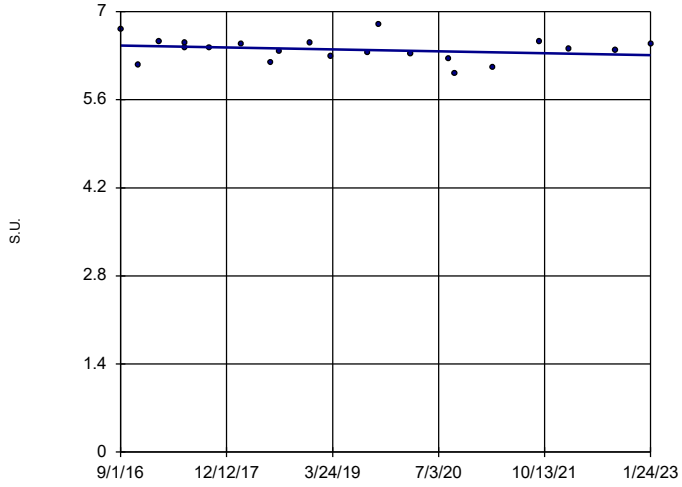
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

Sen's Slope Estimator

BRGWA-12I (bg)



n = 21

Slope = -0.02367 units per year.

Mann-Kendall statistic = -36
critical = -87

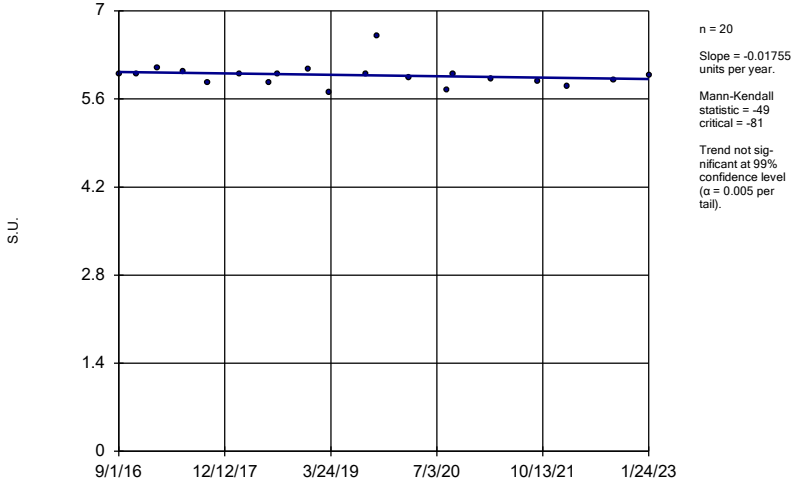
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

Sen's Slope Estimator

BRGWA-12S (bg)



n = 20

Slope = -0.01755 units per year.

Mann-Kendall statistic = -49 critical = -81

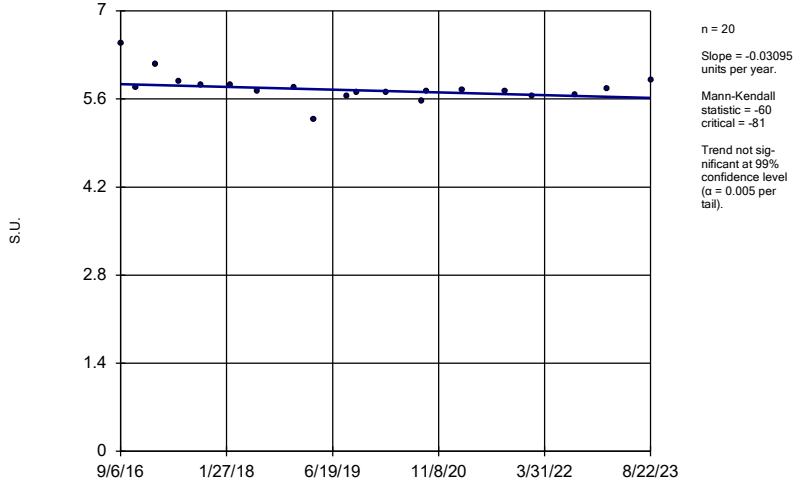
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

Sen's Slope Estimator

BRGWA-23S (bg)



n = 20

Slope = -0.03095 units per year.

Mann-Kendall statistic = -60 critical = -81

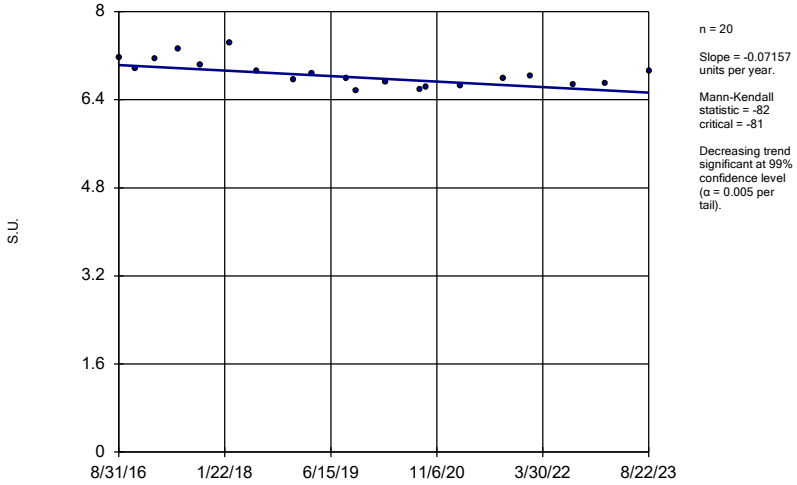
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

Sen's Slope Estimator

BRGWA-2I (bg)



n = 20

Slope = -0.07157 units per year.

Mann-Kendall statistic = -82 critical = -81

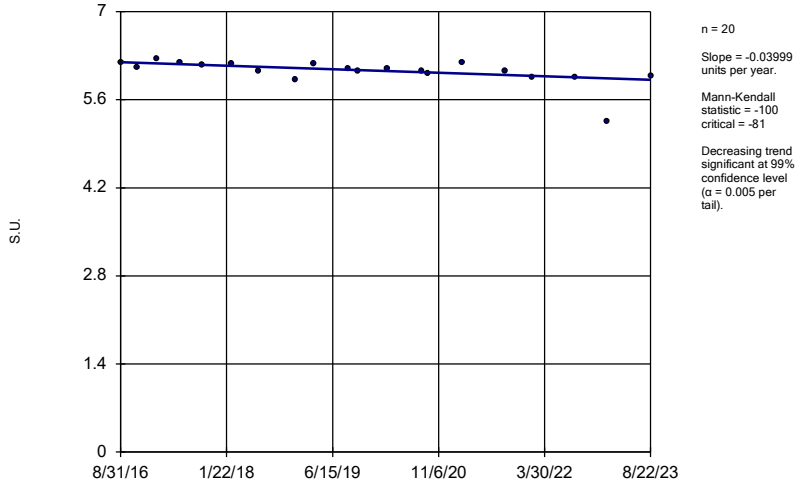
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

Sen's Slope Estimator

BRGWA-2S (bg)



n = 20

Slope = -0.03999 units per year.

Mann-Kendall statistic = -100 critical = -81

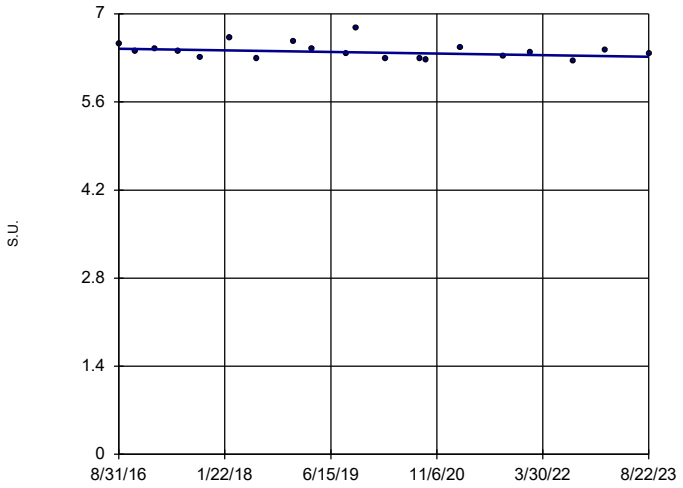
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

Sen's Slope Estimator

BRGWA-5I (bg)



n = 20

Slope = -0.01794 units per year.

Mann-Kendall statistic = -48
critical = -81

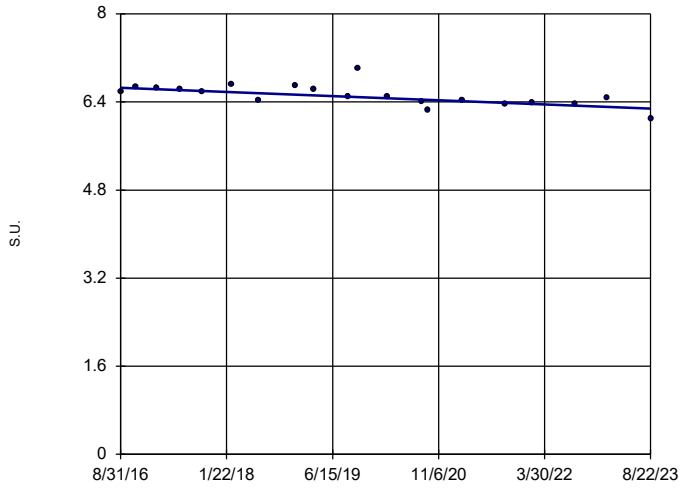
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

Sen's Slope Estimator

BRGWA-5S (bg)



n = 20

Slope = -0.05423 units per year.

Mann-Kendall statistic = -104
critical = -81

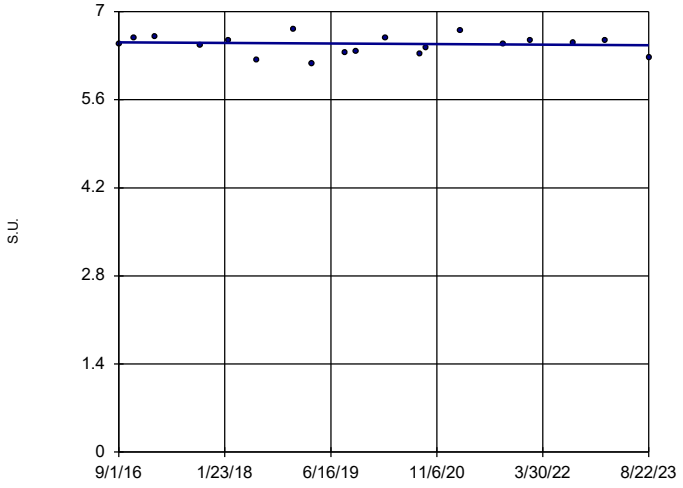
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

Sen's Slope Estimator

BRGWA-6S (bg)



n = 19

Slope = -0.006594 units per year.

Mann-Kendall statistic = -9
critical = -74

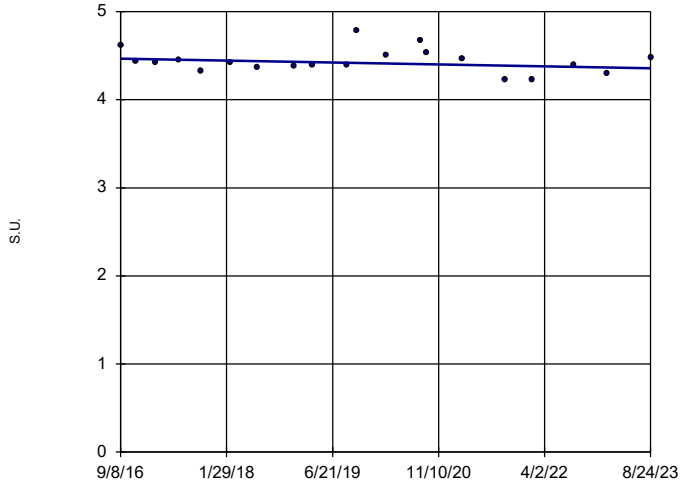
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

Sen's Slope Estimator

BRGWC-29I



n = 20

Slope = -0.01574 units per year.

Mann-Kendall statistic = -23
critical = -81

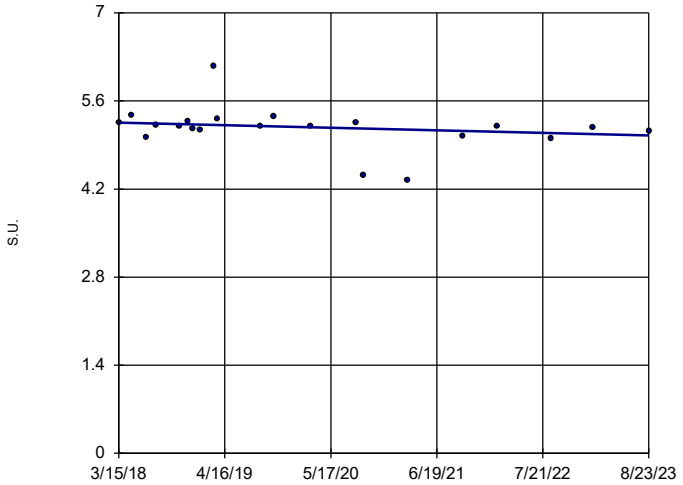
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

Sen's Slope Estimator

BRGWC-50



n = 21

Slope = -0.03717 units per year.

Mann-Kendall statistic = -62 critical = -87

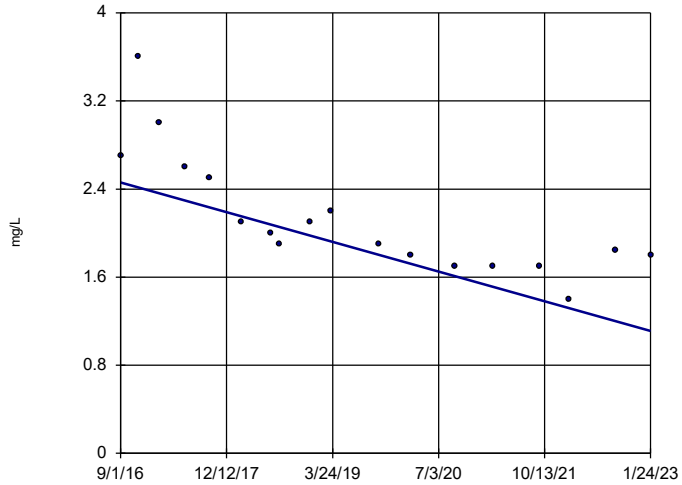
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

Sen's Slope Estimator

BRGWA-12I (bg)



n = 18

Slope = -0.2108 units per year.

Mann-Kendall statistic = -113 critical = -68

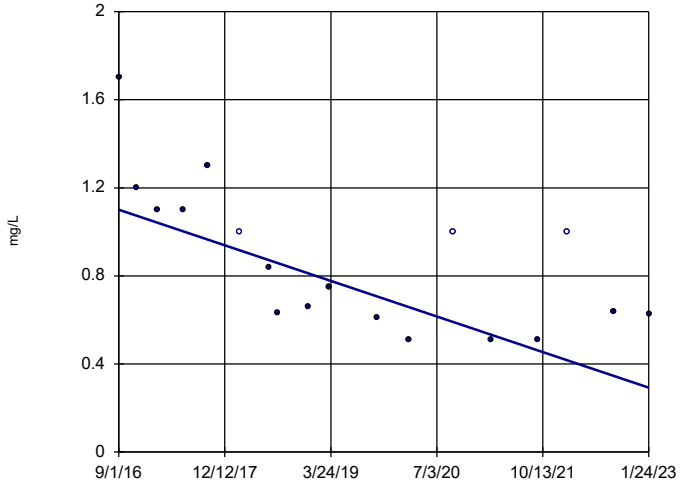
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-12S (bg)



n = 18

Slope = -0.126 units per year.

Mann-Kendall statistic = -88 critical = -68

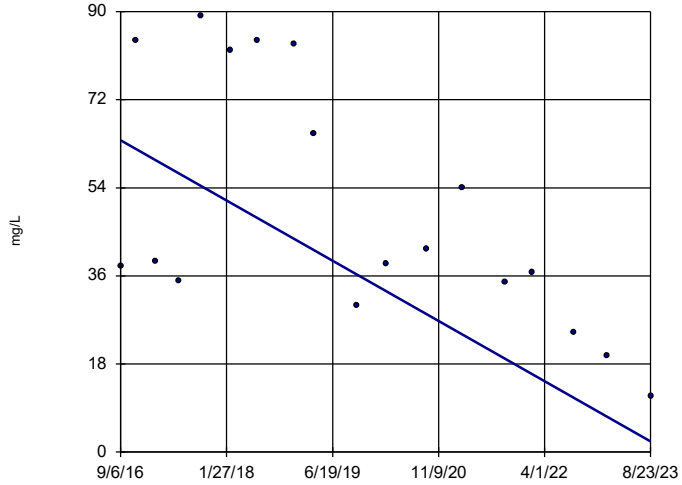
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

Sen's Slope Estimator

BRGWA-23S (bg)



n = 18

Slope = -8.828 units per year.

Mann-Kendall statistic = -75 critical = -68

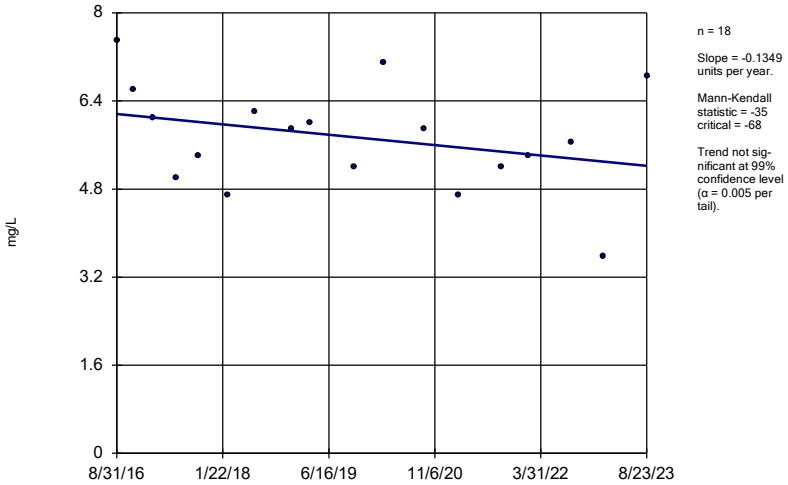
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

Sen's Slope Estimator

BRGWA-2I (bg)



n = 18

Slope = -0.1349 units per year.

Mann-Kendall statistic = -35 critical = -68

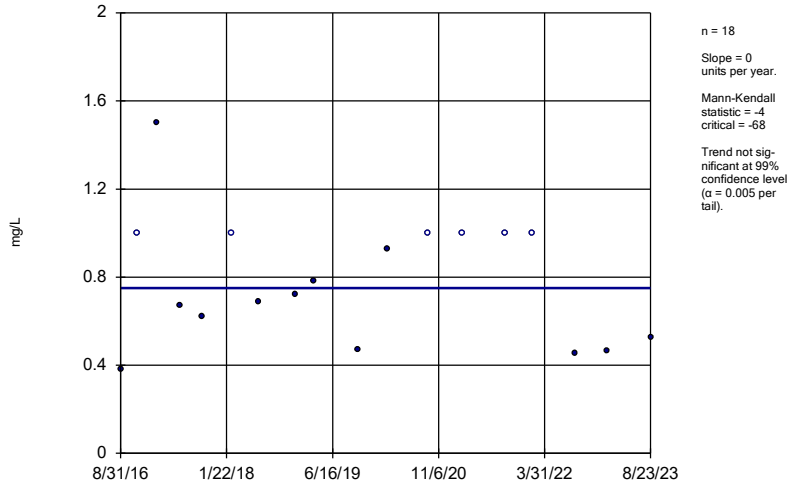
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-2S (bg)



n = 18

Slope = 0 units per year.

Mann-Kendall statistic = -4 critical = -68

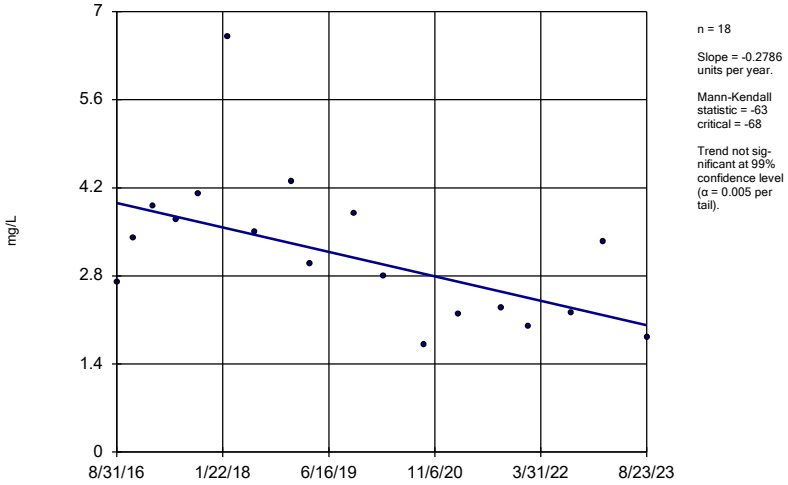
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

Sen's Slope Estimator

BRGWA-5I (bg)



n = 18

Slope = -0.2786 units per year.

Mann-Kendall statistic = -63 critical = -68

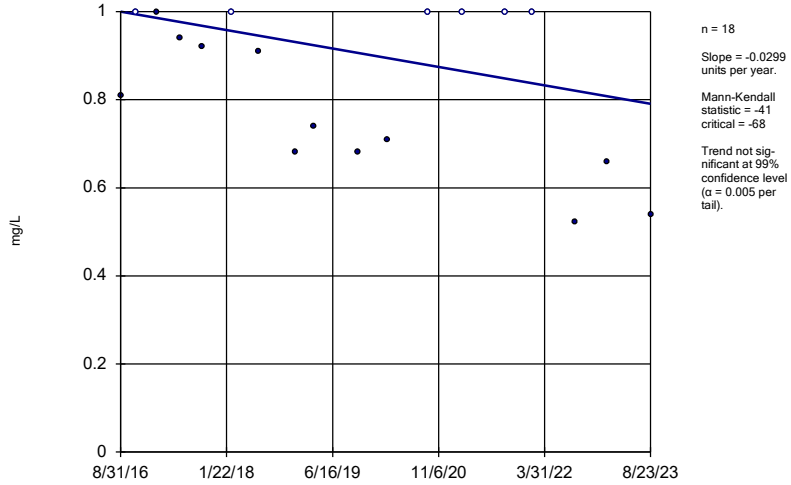
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-5S (bg)



n = 18

Slope = -0.0299 units per year.

Mann-Kendall statistic = -41 critical = -68

Trend not significant at 99% confidence level (α = 0.005 per tail).

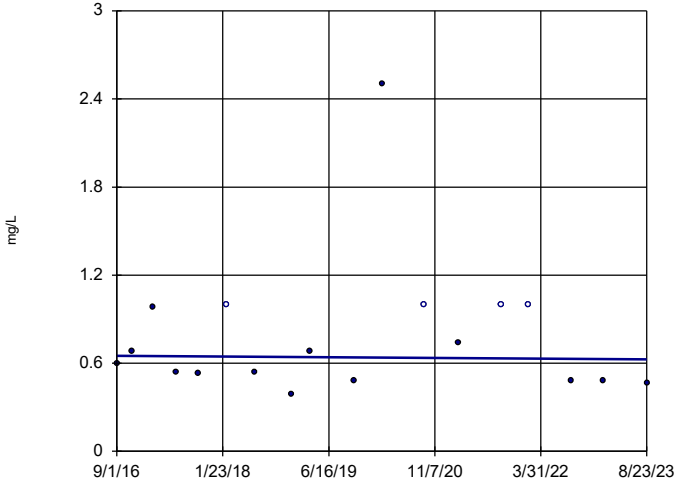
Constituent: Sulfate Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-6S (bg)



n = 18

Slope = -0.00337 units per year.

Mann-Kendall statistic = -11
critical = -68

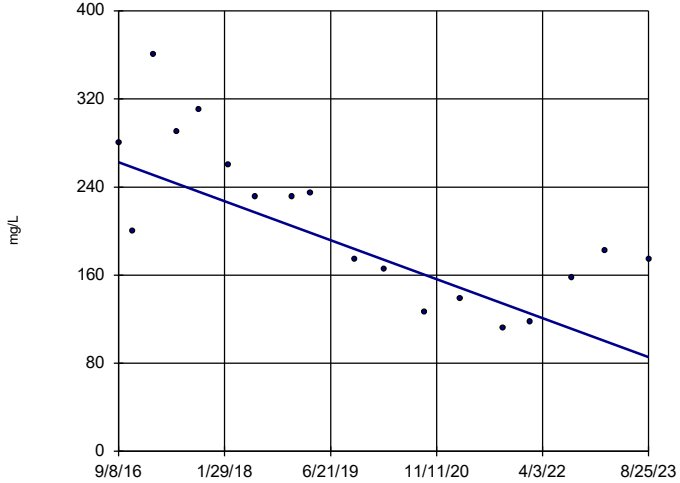
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

Sen's Slope Estimator

BRGWC-25I



n = 18

Slope = -25.4 units per year.

Mann-Kendall statistic = -87
critical = -68

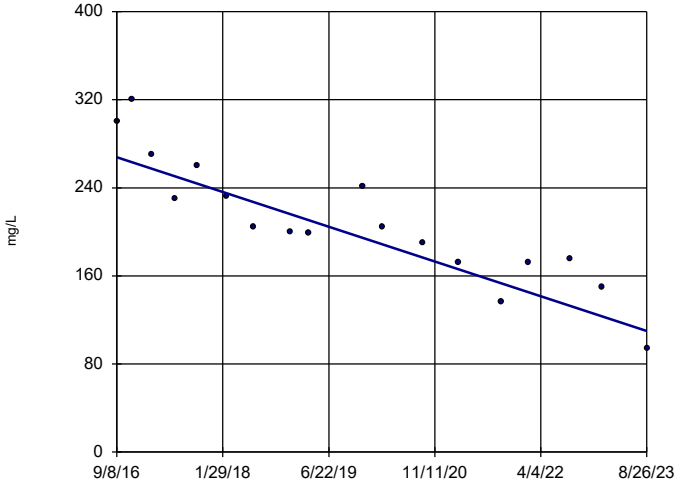
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

Sen's Slope Estimator

BRGWC-27I



n = 18

Slope = -22.62 units per year.

Mann-Kendall statistic = -121
critical = -68

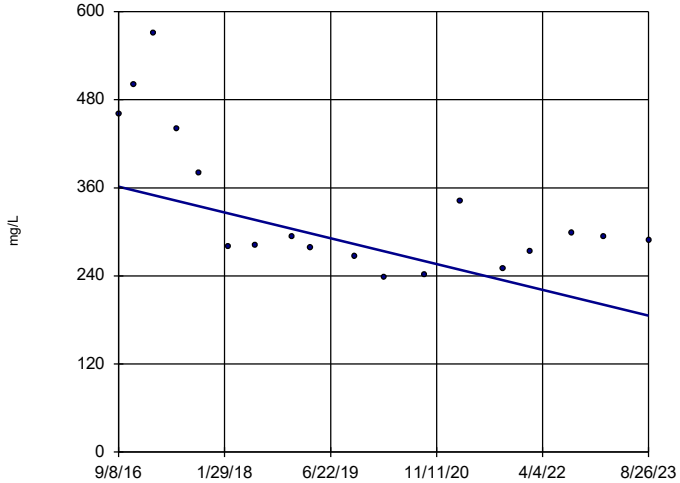
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

Sen's Slope Estimator

BRGWC-29I



n = 18

Slope = -25.24 units per year.

Mann-Kendall statistic = -62
critical = -68

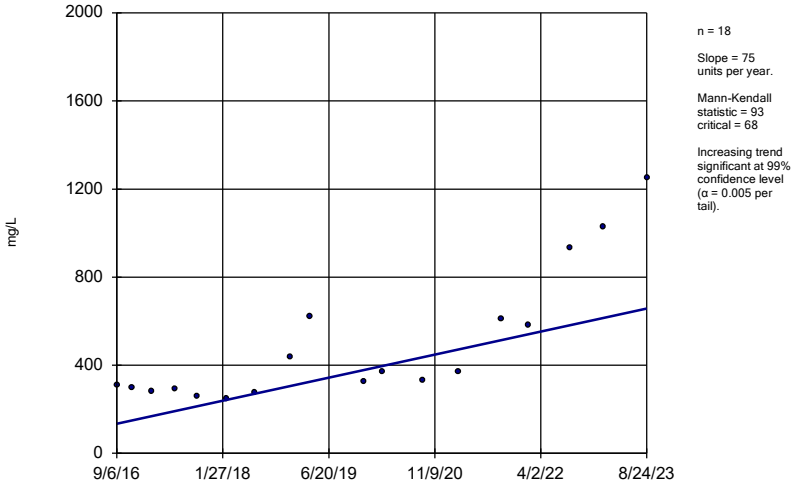
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

Sen's Slope Estimator

BRGWC-30I



n = 18

Slope = 75 units per year.

Mann-Kendall statistic = 93 critical = 68

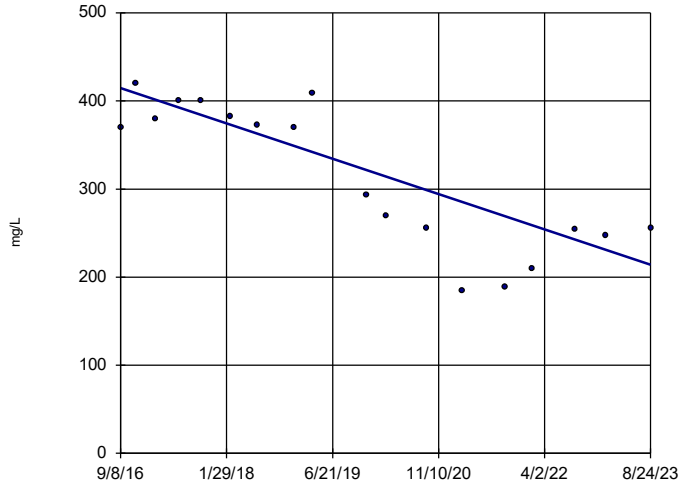
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

Sen's Slope Estimator

BRGWC-32S



n = 18

Slope = -28.81 units per year.

Mann-Kendall statistic = -89 critical = -68

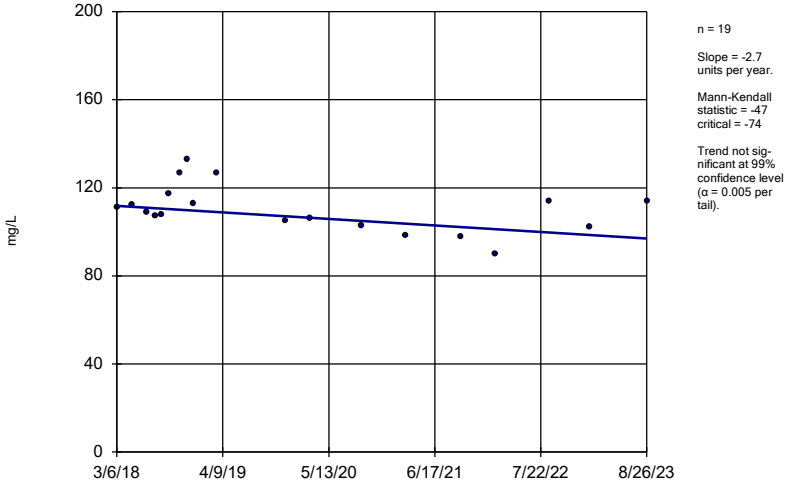
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

Sen's Slope Estimator

BRGWC-45



n = 19

Slope = -2.7 units per year.

Mann-Kendall statistic = -47 critical = -74

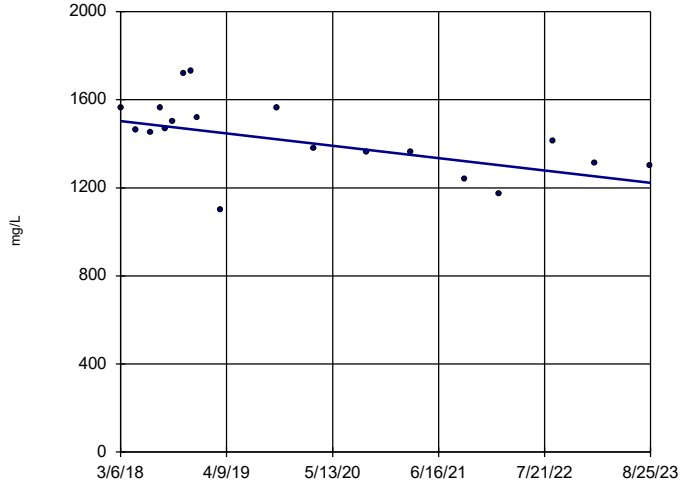
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

Sen's Slope Estimator

BRGWC-47



n = 19

Slope = -51.06 units per year.

Mann-Kendall statistic = -73 critical = -74

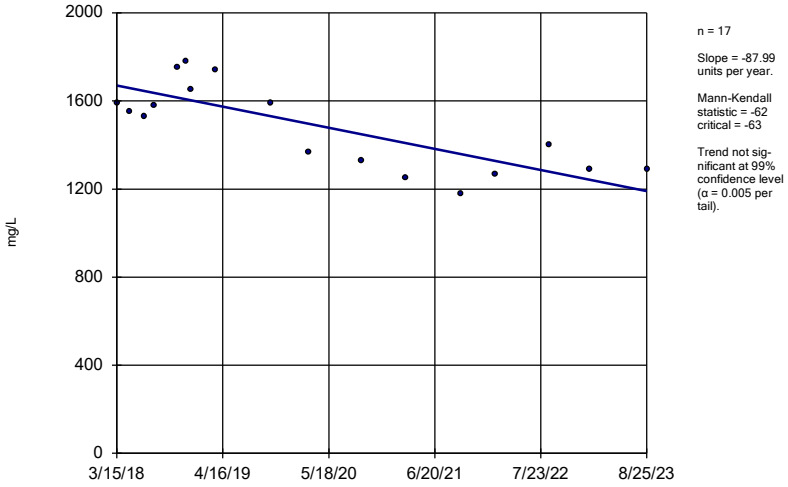
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/23/2023 7:03 PM View: Appendix III - Trend Test - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

Sen's Slope Estimator

BRGWC-50



n = 17

Slope = -87.99 units per year.

Mann-Kendall statistic = -62 critical = -63

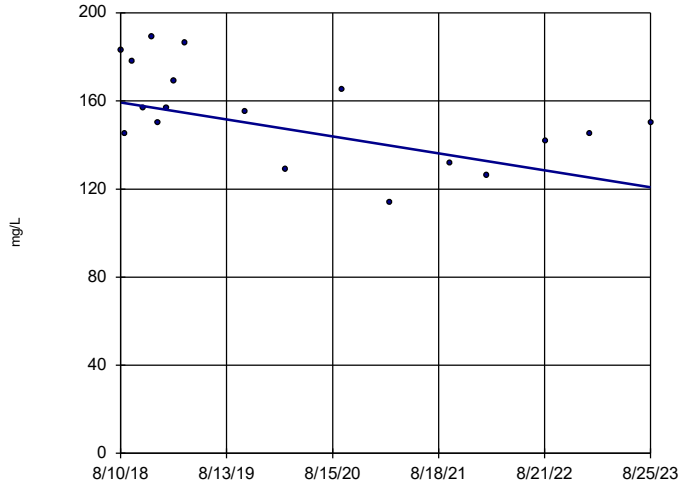
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/23/2023 7:04 PM View: Appendix III - Trend Test - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

Sen's Slope Estimator

BRGWC-52I



n = 18

Slope = -7.645 units per year.

Mann-Kendall statistic = -56 critical = -68

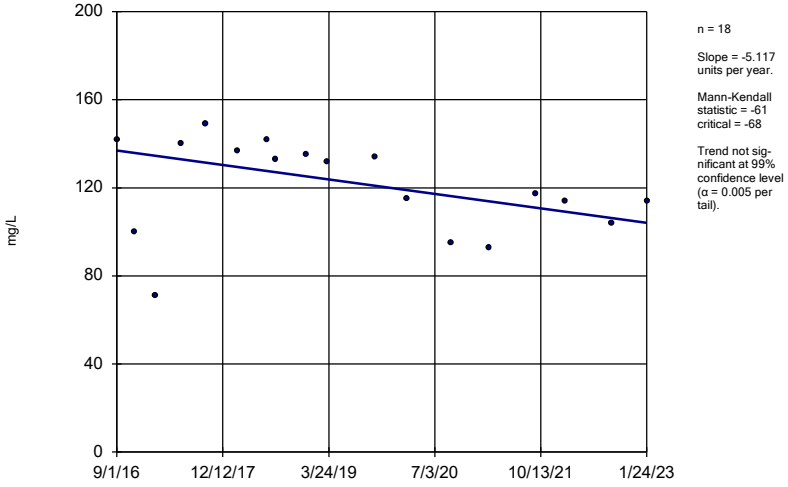
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/23/2023 7:04 PM View: Appendix III - Trend Test - B,C,D
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

Sen's Slope Estimator

BRGWA-12I (bg)



n = 18

Slope = -5.117 units per year.

Mann-Kendall statistic = -61 critical = -68

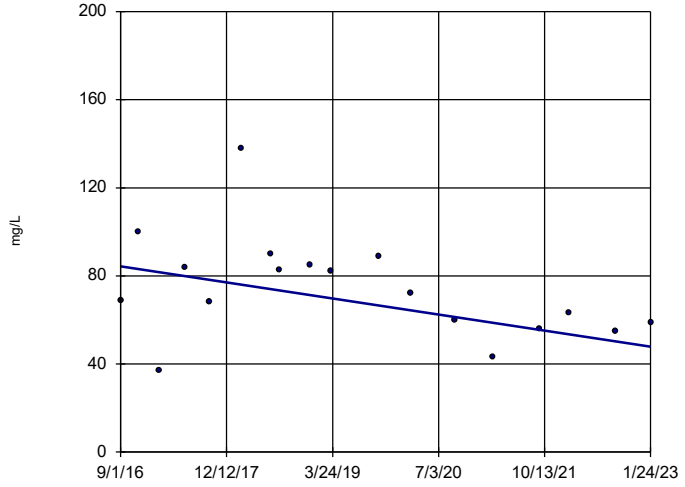
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 10/23/2023 7:04 PM View: Appendix III - Trend Test - B,
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

Sen's Slope Estimator

BRGWA-12S (bg)



n = 18

Slope = -5.699 units per year.

Mann-Kendall statistic = -57 critical = -68

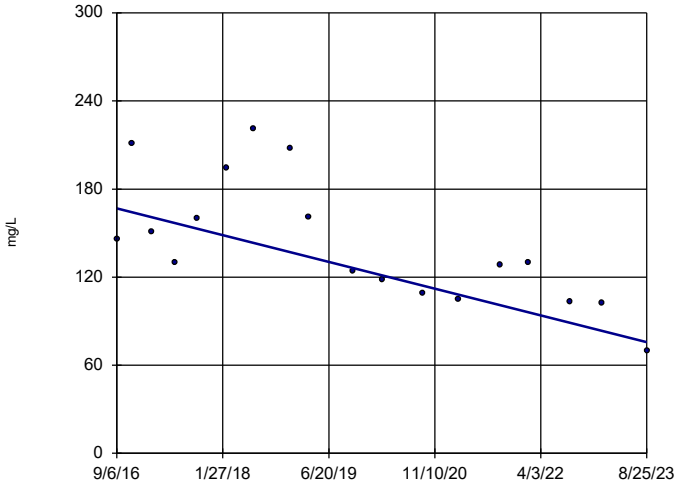
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 10/23/2023 7:04 PM View: Appendix III - Trend Test - B,
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

Sen's Slope Estimator

BRGWA-23S (bg)



n = 18

Slope = -13.07 units per year.

Mann-Kendall statistic = -86 critical = -68

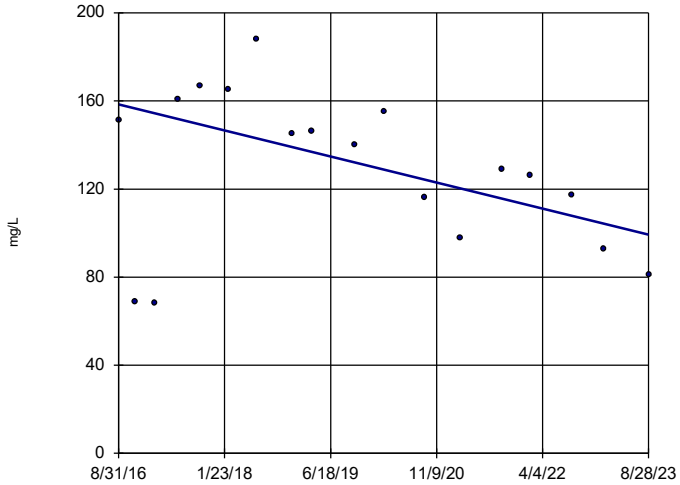
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 10/23/2023 7:04 PM View: Appendix III - Trend Test - B, Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

Sen's Slope Estimator

BRGWA-2I (bg)



n = 18

Slope = -8.462 units per year.

Mann-Kendall statistic = -53 critical = -68

Trend not significant at 99% confidence level (α = 0.005 per tail).

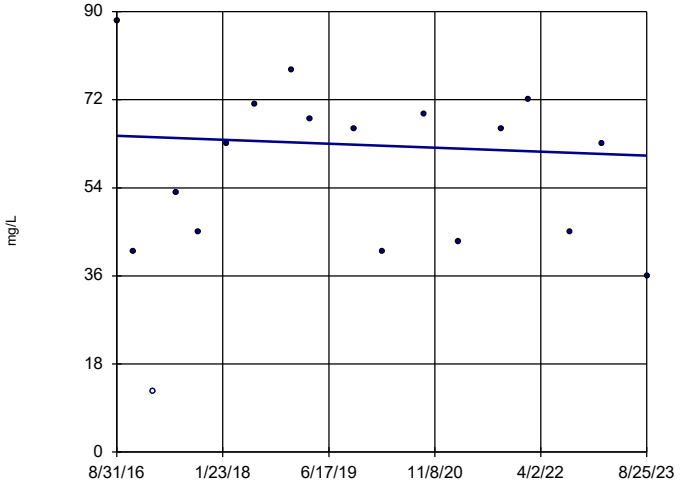
Constituent: Total Dissolved Solids Analysis Run 10/23/2023 7:04 PM View: Appendix III - Trend Test - B, Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-2S (bg)



n = 18

Slope = -0.5826 units per year.

Mann-Kendall statistic = -5 critical = -68

Trend not significant at 99% confidence level (α = 0.005 per tail).

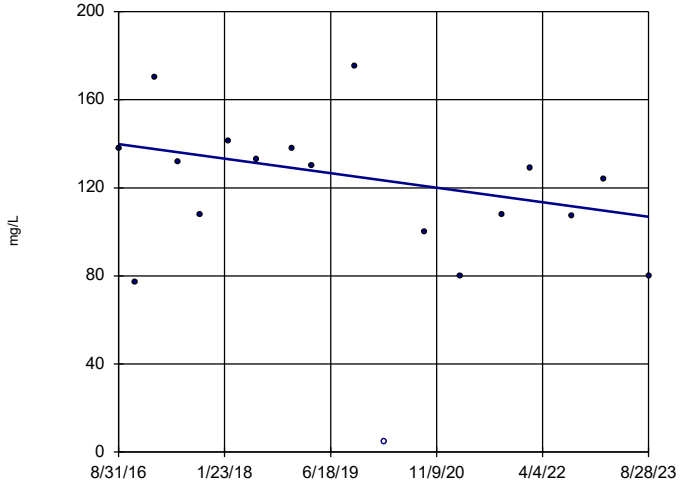
Constituent: Total Dissolved Solids Analysis Run 10/23/2023 7:04 PM View: Appendix III - Trend Test - B, Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-5I (bg)



n = 18

Slope = -4.727 units per year.

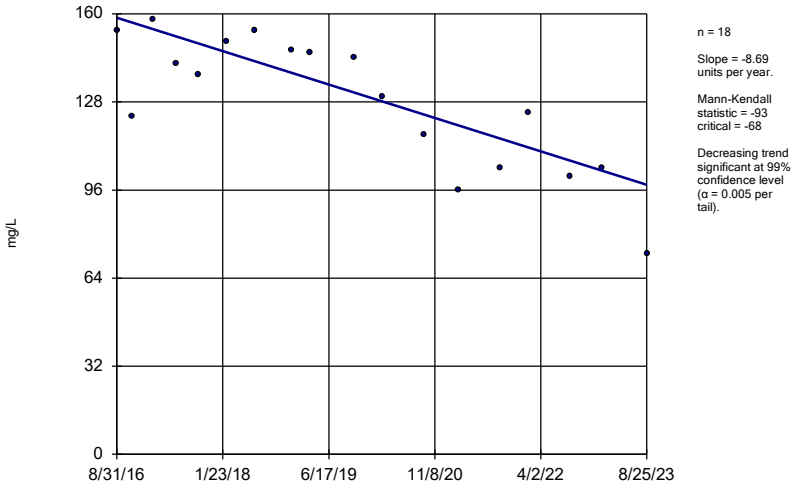
Mann-Kendall statistic = -44 critical = -68

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 10/23/2023 7:04 PM View: Appendix III - Trend Test - B, Plant Branch Data: Plant Branch AP

Sen's Slope Estimator

BRGWA-5S (bg)



n = 18

Slope = -8.69 units per year.

Mann-Kendall statistic = -93 critical = -68

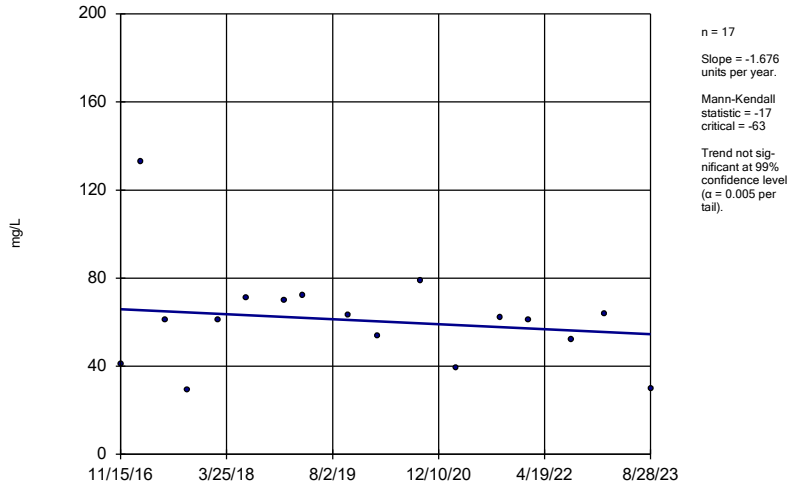
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 10/23/2023 7:04 PM View: Appendix III - Trend Test - B, Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

Sen's Slope Estimator

BRGWA-6S (bg)



n = 17

Slope = -1.676 units per year.

Mann-Kendall statistic = -17 critical = -63

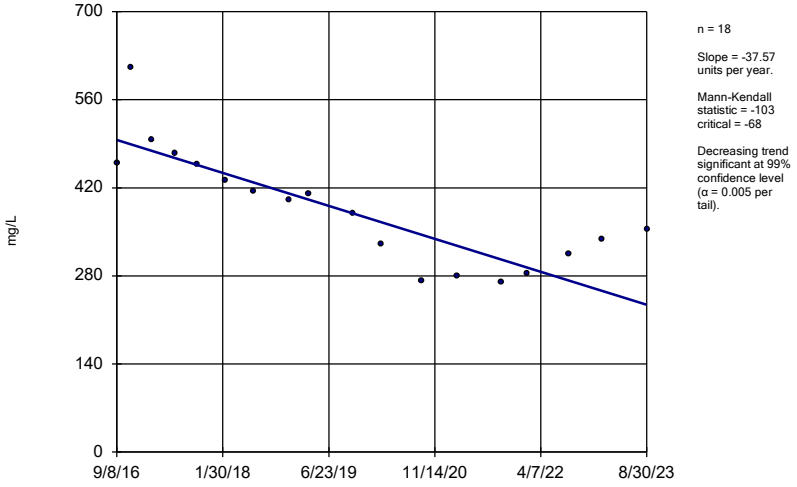
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 10/23/2023 7:04 PM View: Appendix III - Trend Test - B, Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

Sen's Slope Estimator

BRGWC-25I



n = 18

Slope = -37.57 units per year.

Mann-Kendall statistic = -103 critical = -68

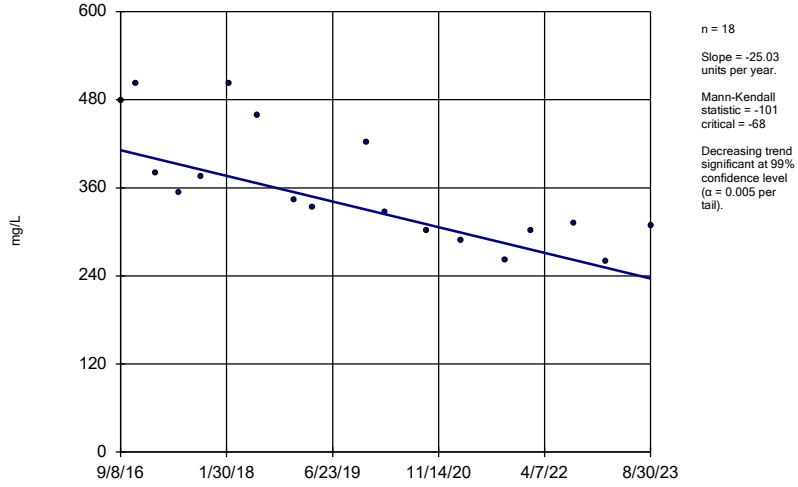
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 10/23/2023 7:04 PM View: Appendix III - Trend Test - B, Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

Sen's Slope Estimator

BRGWC-27I



n = 18

Slope = -25.03 units per year.

Mann-Kendall statistic = -101 critical = -68

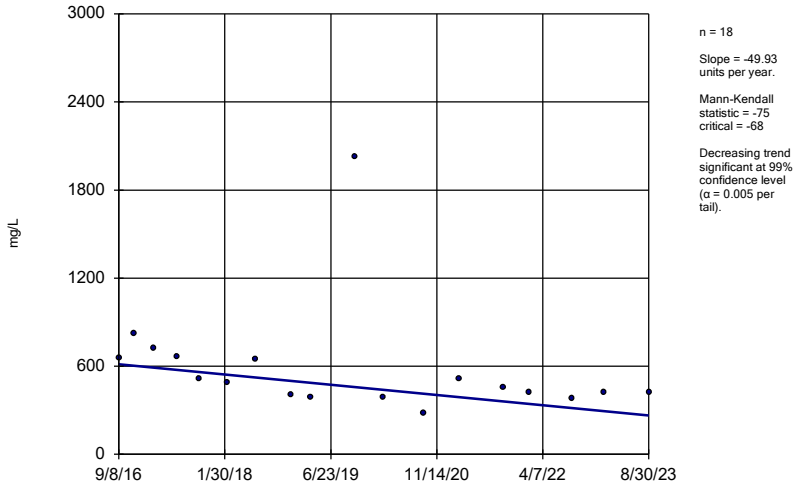
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 10/23/2023 7:04 PM View: Appendix III - Trend Test - B, Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

Sen's Slope Estimator

BRGWC-29I



n = 18

Slope = -49.93 units per year.

Mann-Kendall statistic = -75
critical = -68

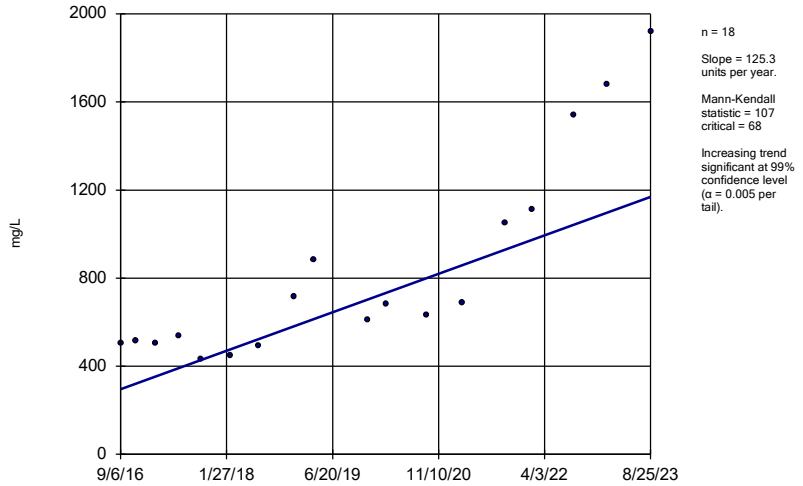
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 10/23/2023 7:04 PM View: Appendix III - Trend Test - B, Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

Sen's Slope Estimator

BRGWC-30I



n = 18

Slope = 125.3 units per year.

Mann-Kendall statistic = 107
critical = 68

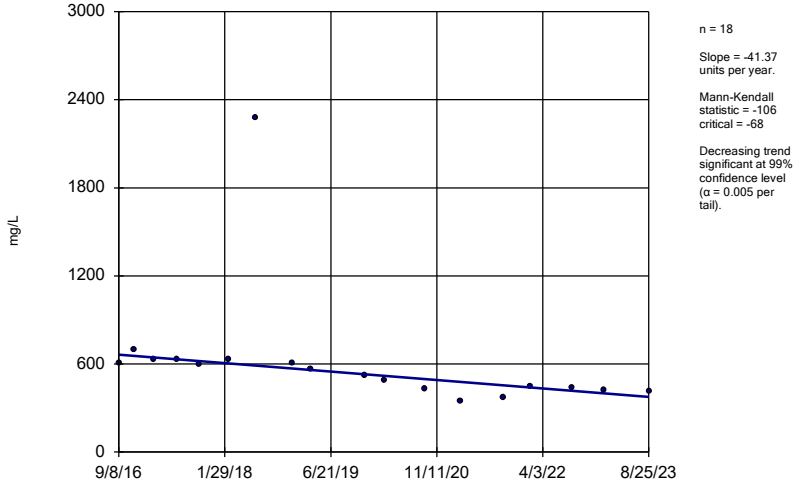
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 10/23/2023 7:04 PM View: Appendix III - Trend Test - B, Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

Sen's Slope Estimator

BRGWC-32S



n = 18

Slope = -41.37 units per year.

Mann-Kendall statistic = -106
critical = -68

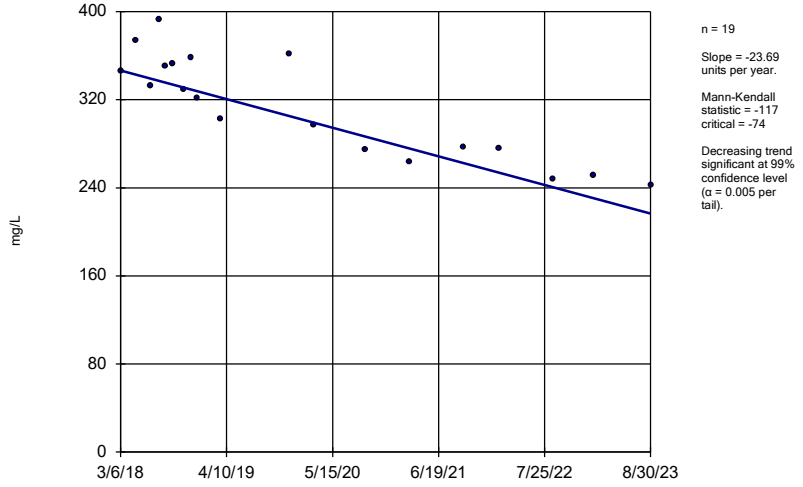
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 10/23/2023 7:04 PM View: Appendix III - Trend Test - B, Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

Sen's Slope Estimator

BRGWC-45



n = 19

Slope = -23.69 units per year.

Mann-Kendall statistic = -117
critical = -74

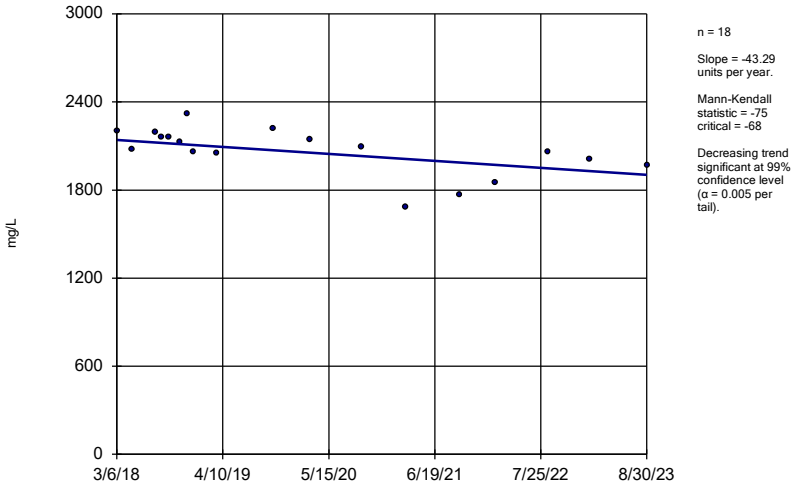
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 10/23/2023 7:04 PM View: Appendix III - Trend Test - B, Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

Sen's Slope Estimator

BRGWC-47



n = 18

Slope = -43.29 units per year.

Mann-Kendall statistic = -75
critical = -68

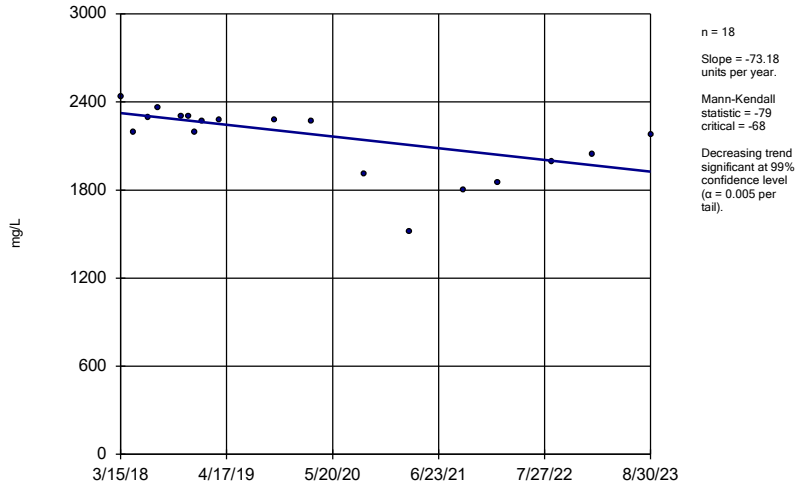
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 10/23/2023 7:04 PM View: Appendix III - Trend Test - B, Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

Sen's Slope Estimator

BRGWC-50



n = 18

Slope = -73.18 units per year.

Mann-Kendall statistic = -79
critical = -68

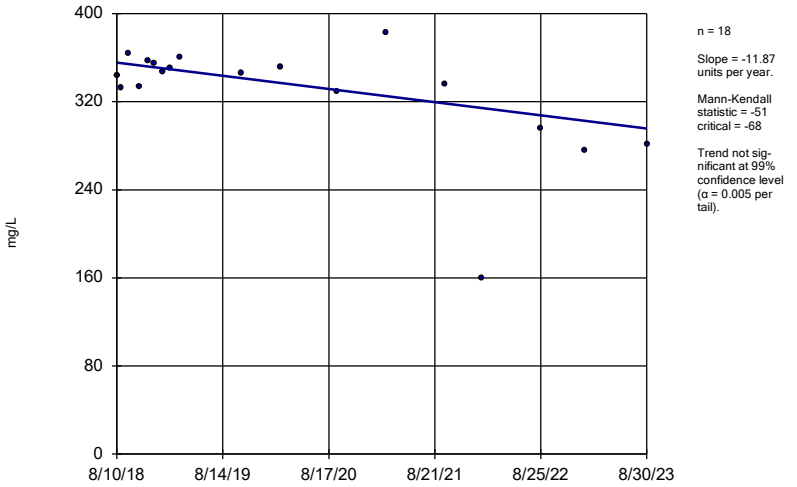
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 10/23/2023 7:04 PM View: Appendix III - Trend Test - B, Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

Sen's Slope Estimator

BRGWC-52I



n = 18

Slope = -11.87 units per year.

Mann-Kendall statistic = -51
critical = -68

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 10/23/2023 7:04 PM View: Appendix III - Trend Test - B, Plant Branch Data: Plant Branch AP

FIGURE F.

Upper Tolerance Limits Summary Table

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 10/24/2023, 2:23 PM

Constituent	Upper Lim.	Date	Observ.	Sig.	Bg N	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	0.0245	n/a	n/a	n/a	150	83.33	n/a	n/a	0.0004556	NP Inter(NDs)
Arsenic (mg/L)	0.005	n/a	n/a	n/a	150	76.67	n/a	n/a	0.0004556	NP Inter(NDs)
Barium (mg/L)	0.13	n/a	n/a	n/a	150	0	n/a	n/a	0.0004556	NP Inter(normality)
Beryllium (mg/L)	0.0005	n/a	n/a	n/a	150	100	n/a	n/a	0.0004556	NP Inter(NDs)
Cadmium (mg/L)	0.001	n/a	n/a	n/a	152	98.68	n/a	n/a	0.0004111	NP Inter(NDs)
Chromium (mg/L)	0.016	n/a	n/a	n/a	150	22	n/a	n/a	0.0004556	NP Inter(normality)
Cobalt (mg/L)	0.0135	n/a	n/a	n/a	150	55.33	n/a	n/a	0.0004556	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	2.171	n/a	n/a	n/a	150	0	None	sqrt(x)	0.05	Inter
Fluoride (mg/L)	0.42	n/a	n/a	n/a	158	50	n/a	n/a	0.0003022	NP Inter(normality)
Lead (mg/L)	0.002	n/a	n/a	n/a	150	88	n/a	n/a	0.0004556	NP Inter(NDs)
Lithium (mg/L)	0.089	n/a	n/a	n/a	150	41.33	n/a	n/a	0.0004556	NP Inter(normality)
Mercury (mg/L)	0.00021	n/a	n/a	n/a	134	88.81	n/a	n/a	0.001035	NP Inter(NDs)
Molybdenum (mg/L)	0.008	n/a	n/a	n/a	147	76.19	n/a	n/a	0.0005313	NP Inter(NDs)
Selenium (mg/L)	0.006	n/a	n/a	n/a	150	92	n/a	n/a	0.0004556	NP Inter(NDs)
Thallium (mg/L)	0.002	n/a	n/a	n/a	150	100	n/a	n/a	0.0004556	NP Inter(NDs)

FIGURE G.

PLANT BRANCH POND BCD GWPS				
Constituent Name	**MCL**	**CCR-Rule Specified**	**Background Limit**	**GWPS**
Antimony, Total (mg/L)	0.006		0.025	0.006
Arsenic, Total (mg/L)	0.01		0.005	0.01
Barium, Total (mg/L)	2		0.13	2
Beryllium, Total (mg/L)	0.004		0.0005	0.004
Cadmium, Total (mg/L)	0.005		0.001	0.005
Chromium, Total (mg/L)	0.1		0.016	0.1
Cobalt, Total (mg/L)	n/a	0.006	0.014	0.014
Combined Radium, Total (pCi/L)	5		2.17	5
Fluoride, Total (mg/L)	4		0.42	4
Lead, Total (mg/L)	n/a	0.015	0.002	0.015
Lithium, Total (mg/L)	n/a	0.04	0.089	0.089
Mercury, Total (mg/L)	0.002		0.00021	0.002
Molybdenum, Total (mg/L)	n/a	0.1	0.008	0.1
Selenium, Total (mg/L)	0.05		0.006	0.05
Thallium, Total (mg/L)	0.002		0.002	0.002

**Highlighted cells indicate Background is higher than MCLs*

**MCL = Maximum Contaminant Level*

**CCR = Coal Combustion Residuals*

**GWPS = Groundwater Protection Standard*

***MCL used in lieu of Background limit for Antimony*

FIGURE H.

Confidence Intervals Summary Table - Significant Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 1/31/2024, 1:49 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Beryllium (mg/L)	**BRGWC-50**	**0.008516**	**0.005195**	**0.004**	**Yes**	**9**	**0.006856**	**0.001719**	**0**	**None**	**No**	**0.01**	**Param.**
Beryllium (mg/L)	**PZ-58I**	**0.03983**	**0.02257**	**0.004**	**Yes**	**5**	**0.0312**	**0.005152**	**0**	**None**	**No**	**0.01**	**Param.**
Beryllium (mg/L)	**PZ-60I**	**0.07905**	**0.06195**	**0.004**	**Yes**	**5**	**0.0705**	**0.005101**	**0**	**None**	**No**	**0.01**	**Param.**
Cadmium (mg/L)	**BRGWC-50**	**0.038**	**0.0079**	**0.005**	**Yes**	**19**	**0.02552**	**0.0242**	**0**	**None**	**No**	**0.01**	**NP (normality)**
Cadmium (mg/L)	**PZ-60I**	**0.01719**	**0.01445**	**0.005**	**Yes**	**5**	**0.01582**	**0.0008198**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	**BRGWC-50**	**1.42**	**1.35**	**0.014**	**Yes**	**19**	**1.392**	**0.0633**	**0**	**None**	**No**	**0.01**	**NP (normality)**
Cobalt (mg/L)	**PZ-51I**	**0.0259**	**0.018**	**0.014**	**Yes**	**12**	**0.02274**	**0.006306**	**0**	**None**	**No**	**0.01**	**NP (normality)**
Cobalt (mg/L)	**PZ-58I**	**0.5929**	**0.3659**	**0.014**	**Yes**	**5**	**0.4794**	**0.06773**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	**PZ-60I**	**3.827**	**3.333**	**0.014**	**Yes**	**5**	**3.58**	**0.1471**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	**PZ-61I**	**0.7712**	**0.382**	**0.014**	**Yes**	**5**	**0.5766**	**0.1162**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	**PZ-60I**	**0.114**	**0.0936**	**0.089**	**Yes**	**5**	**0.1013**	**0.007636**	**0**	**None**	**No**	**0.031**	**NP (selected)**
Selenium (mg/L)	**BRGWC-32S**	**0.1777**	**0.08972**	**0.05**	**Yes**	**11**	**0.1337**	**0.0528**	**0**	**None**	**No**	**0.01**	**Param.**

Confidence Intervals Summary Table - All Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 1/31/2024, 1:49 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	BRGWC-29I	0.003	0.0007	0.006	No	19	0.002879	0.0005277	94.74	None	No	0.01	NP (NDs)
Antimony (mg/L)	BRGWC-30I	0.003	0.0013	0.006	No	19	0.002911	0.00039	94.74	None	No	0.01	NP (NDs)
Antimony (mg/L)	BRGWC-32S	0.003	0.0014	0.006	No	19	0.002916	0.0003671	94.74	None	No	0.01	NP (NDs)
Antimony (mg/L)	BRGWC-45	0.003	0.0016	0.006	No	20	0.002502	0.0008619	65	None	No	0.01	NP (NDs)
Antimony (mg/L)	BRGWC-47	0.003	0.00035	0.006	No	20	0.002868	0.0005926	95	None	No	0.01	NP (NDs)
Antimony (mg/L)	BRGWC-50	0.003	0.00092	0.006	No	19	0.002624	0.0008973	84.21	None	No	0.01	NP (NDs)
Antimony (mg/L)	BRGWC-52I	0.003	0.00091	0.006	No	19	0.002642	0.0008549	84.21	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-50D	0.003	0.00056	0.006	No	6	0.002593	0.0009961	83.33	None	No	0.0155	NP (NDs)
Antimony (mg/L)	PZ-51D	0.003	0.0013	0.006	No	6	0.002717	0.000694	83.33	None	No	0.0155	NP (NDs)
Antimony (mg/L)	PZ-51I	0.003	0.0012	0.006	No	10	0.002469	0.0008816	70	None	No	0.011	NP (NDs)
Arsenic (mg/L)	BRGWC-25I	0.005	0.00091	0.01	No	19	0.004092	0.001808	78.95	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-27I	0.005	0.0014	0.01	No	19	0.004163	0.001669	78.95	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-29I	0.005	0.0015	0.01	No	19	0.003611	0.001909	63.16	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-30I	0.005	0.00283	0.01	No	19	0.004498	0.001251	84.21	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-32S	0.005	0.00053	0.01	No	19	0.004765	0.001025	94.74	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-45	0.005	0.0021	0.01	No	20	0.003867	0.001817	70	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-47	0.002641	0.001266	0.01	No	20	0.002965	0.001753	30	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	BRGWC-50	0.005	0.00236	0.01	No	19	0.004077	0.001646	73.68	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-52I	0.005	0.0026	0.01	No	19	0.003798	0.001452	47.37	None	No	0.01	NP (normality)
Arsenic (mg/L)	PZ-44	0.005	0.00221	0.01	No	7	0.004459	0.001059	71.43	None	No	0.008	NP (NDs)
Arsenic (mg/L)	PZ-50D	0.002982	0.0008455	0.01	No	6	0.002428	0.001481	16.67	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	PZ-51D	0.003948	0.001176	0.01	No	6	0.002968	0.001417	16.67	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	PZ-51I	0.005	0.005	0.01	No	10	0.004722	0.0008791	90	Kaplan-Meier	No	0.011	NP (NDs)
Arsenic (mg/L)	PZ-58I	0.005	0.00245	0.01	No	5	0.00449	0.00114	80	Kaplan-Meier	No	0.031	NP (NDs)
Arsenic (mg/L)	PZ-60I	0.005	0.00204	0.01	No	5	0.004124	0.001317	60	None	No	0.031	NP (NDs)
Arsenic (mg/L)	PZ-61I	0.003048	0.002019	0.01	No	5	0.0035	0.001397	40	Kaplan-Meier	ln(x)	0.01	Param.
Barium (mg/L)	BRGWC-25I	0.03371	0.02648	2	No	19	0.03051	0.00672	0	None	ln(x)	0.01	Param.
Barium (mg/L)	BRGWC-27I	0.01674	0.01509	2	No	19	0.01592	0.001409	0	None	No	0.01	Param.
Barium (mg/L)	BRGWC-29I	0.01903	0.017	2	No	19	0.01802	0.001739	0	None	No	0.01	Param.
Barium (mg/L)	BRGWC-30I	0.03032	0.02311	2	No	19	0.02718	0.006723	0	None	ln(x)	0.01	Param.
Barium (mg/L)	BRGWC-32S	0.04014	0.02605	2	No	19	0.03309	0.01202	0	None	No	0.01	Param.
Barium (mg/L)	BRGWC-45	0.09133	0.0718	2	No	20	0.08157	0.0172	0	None	No	0.01	Param.
Barium (mg/L)	BRGWC-47	0.04162	0.03263	2	No	20	0.03713	0.007917	0	None	No	0.01	Param.
Barium (mg/L)	BRGWC-50	0.02069	0.01781	2	No	19	0.01925	0.002456	0	None	No	0.01	Param.
Barium (mg/L)	BRGWC-52I	0.02593	0.01695	2	No	19	0.02186	0.008206	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	PZ-44	0.05569	0.04728	2	No	7	0.05149	0.003537	0	None	No	0.01	Param.
Barium (mg/L)	PZ-50D	0.04083	0.0253	2	No	6	0.03307	0.005652	0	None	No	0.01	Param.
Barium (mg/L)	PZ-51D	0.07446	0.04064	2	No	6	0.05755	0.01231	0	None	No	0.01	Param.
Barium (mg/L)	PZ-51I	0.01594	0.01396	2	No	10	0.01495	0.001115	0	None	No	0.01	Param.
Barium (mg/L)	PZ-58I	0.01831	0.01573	2	No	5	0.01702	0.0007727	0	None	No	0.01	Param.
Barium (mg/L)	PZ-60I	0.02351	0.02073	2	No	5	0.02212	0.0008319	0	None	No	0.01	Param.
Barium (mg/L)	PZ-61I	0.029	0.0125	2	No	5	0.0165	0.007057	0	None	No	0.031	NP (normality)
Barium (mg/L)	PZ-63I	0.037	0.022	2	No	4	0.02603	0.00733	0	None	No	0.0625	NP (normality)
Beryllium (mg/L)	BRGWC-27I	0.0005	0.00011	0.004	No	20	0.0002617	0.000184	35	None	No	0.01	NP (normality)
Beryllium (mg/L)	BRGWC-29I	0.001074	0.0008106	0.004	No	19	0.0009597	0.0002429	5.263	None	ln(x)	0.01	Param.
Beryllium (mg/L)	BRGWC-45	0.0005	0.000079	0.004	No	21	0.0004583	0.0001317	90.48	None	No	0.01	NP (NDs)
Beryllium (mg/L)	BRGWC-47	0.0005	0.000056	0.004	No	20	0.0004329	0.0001639	85	None	No	0.01	NP (NDs)
Beryllium (mg/L)	**BRGWC-50**	**0.008516**	**0.005195**	**0.004**	**Yes**	**9**	**0.006856**	**0.001719**	**0**	**None**	**No**	**0.01**	**Param.**
Beryllium (mg/L)	PZ-50D	0.0025	0.000059	0.004	No	6	0.001721	0.001208	66.67	None	No	0.0155	NP (NDs)
Beryllium (mg/L)	PZ-51I	0.0005	0.000071	0.004	No	10	0.0002476	0.0002175	40	None	No	0.011	NP (normality)
Beryllium (mg/L)	**PZ-58I**	**0.03983**	**0.02257**	**0.004**	**Yes**	**5**	**0.0312**	**0.005152**	**0**	**None**	**No**	**0.01**	**Param.**
Beryllium (mg/L)	**PZ-60I**	**0.07905**	**0.06195**	**0.004**	**Yes**	**5**	**0.0705**	**0.005101**	**0**	**None**	**No**	**0.01**	**Param.**
Beryllium (mg/L)	PZ-61I	0.002003	0.001305	0.004	No	5	0.001654	0.0002085	0	None	No	0.01	Param.
Cadmium (mg/L)	BRGWC-27I	0.001	0.00009	0.005	No	20	0.000908	0.0002832	90	None	No	0.01	NP (NDs)
Cadmium (mg/L)	BRGWC-30I	0.001	0.00014	0.005	No	20	0.000911	0.0002741	90	None	No	0.01	NP (NDs)

Confidence Intervals Summary Table - All Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 1/31/2024, 1:49 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Cadmium (mg/L)	BRGWC-32S	0.001	0.00011	0.005	No	20	0.0008645	0.000331	85	None	No	0.01	NP (NDs)
Cadmium (mg/L)	BRGWC-45	0.001	0.0002	0.005	No	21	0.0008356	0.0003477	80.95	None	No	0.01	NP (NDs)
Cadmium (mg/L)	BRGWC-47	0.001	0.00017	0.005	No	20	0.0005865	0.0004251	50	None	No	0.01	NP (normality)
Cadmium (mg/L)	**BRGWC-50**	**0.038**	**0.0079**	**0.005**	**Yes**	**19**	**0.02552**	**0.0242**	**0**	**None**	**No**	**0.01**	**NP (normality)**
Cadmium (mg/L)	PZ-51I	0.007544	0.00117	0.005	No	12	0.006233	0.009531	0	None	ln(x)	0.01	Param.
Cadmium (mg/L)	PZ-58I	0.004829	0.003763	0.005	No	5	0.004296	0.0003183	0	None	No	0.01	Param.
Cadmium (mg/L)	**PZ-60I**	**0.01719**	**0.01445**	**0.005**	**Yes**	**5**	**0.01582**	**0.0008198**	**0**	**None**	**No**	**0.01**	**Param.**
Cadmium (mg/L)	PZ-61I	0.001049	0.00008008	0.005	No	5	0.0005644	0.000289	0	None	No	0.01	Param.
Chromium (mg/L)	BRGWC-25I	0.01	0.0016	0.1	No	19	0.009083	0.002748	89.47	None	No	0.01	NP (NDs)
Chromium (mg/L)	BRGWC-27I	0.01	0.003	0.1	No	19	0.009158	0.002544	89.47	None	No	0.01	NP (NDs)
Chromium (mg/L)	BRGWC-29I	0.02	0.01	0.1	No	19	0.01053	0.002294	94.74	None	No	0.01	NP (NDs)
Chromium (mg/L)	BRGWC-30I	0.014	0.0051	0.1	No	19	0.009953	0.00149	89.47	None	No	0.01	NP (NDs)
Chromium (mg/L)	BRGWC-32S	0.01	0.0014	0.1	No	19	0.005195	0.004228	42.11	None	No	0.01	NP (normality)
Chromium (mg/L)	BRGWC-45	0.01	0.0014	0.1	No	20	0.008646	0.003309	85	None	No	0.01	NP (NDs)
Chromium (mg/L)	BRGWC-47	0.01	0.0018	0.1	No	20	0.008207	0.003685	80	None	No	0.01	NP (NDs)
Chromium (mg/L)	BRGWC-50	0.01	0.00098	0.1	No	19	0.006881	0.004281	63.16	None	No	0.01	NP (NDs)
Chromium (mg/L)	BRGWC-52I	0.01	0.0017	0.1	No	19	0.009563	0.001904	94.74	None	No	0.01	NP (NDs)
Chromium (mg/L)	PZ-51I	0.01	0.00098	0.1	No	10	0.008178	0.003841	80	None	No	0.011	NP (NDs)
Chromium (mg/L)	PZ-61I	0.01	0.0077	0.1	No	5	0.00954	0.001029	80	None	No	0.031	NP (NDs)
Cobalt (mg/L)	BRGWC-25I	0.005891	0.003686	0.014	No	19	0.005039	0.00211	5.263	None	ln(x)	0.01	Param.
Cobalt (mg/L)	BRGWC-27I	0.01028	0.007556	0.014	No	20	0.008916	0.002396	0	None	No	0.01	Param.
Cobalt (mg/L)	BRGWC-29I	0.009386	0.006679	0.014	No	19	0.008172	0.002486	5.263	None	x^(1/3)	0.01	Param.
Cobalt (mg/L)	BRGWC-30I	0.00163	0.0008	0.014	No	20	0.007016	0.01422	15	None	No	0.01	NP (normality)
Cobalt (mg/L)	BRGWC-32S	0.0025	0.001	0.014	No	20	0.001075	0.0003354	90	None	No	0.01	NP (NDs)
Cobalt (mg/L)	BRGWC-45	0.01235	0.005405	0.014	No	21	0.01143	0.01401	0	None	ln(x)	0.01	Param.
Cobalt (mg/L)	BRGWC-47	0.001516	0.0004522	0.014	No	20	0.002026	0.002969	25	Kaplan-Meier	ln(x)	0.01	Param.
Cobalt (mg/L)	**BRGWC-50**	**1.42**	**1.35**	**0.014**	**Yes**	**19**	**1.392**	**0.0633**	**0**	**None**	**No**	**0.01**	**NP (normality)**
Cobalt (mg/L)	BRGWC-52I	0.0015	0.00063	0.014	No	19	0.001306	0.0009458	57.89	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-50D	0.506	0.0037	0.014	No	7	0.128	0.1811	0	None	No	0.008	NP (selected)
Cobalt (mg/L)	PZ-51D	0.001	0.000306	0.014	No	7	0.000649	0.0003306	42.86	None	No	0.008	NP (normality)
Cobalt (mg/L)	**PZ-51I**	**0.0259**	**0.018**	**0.014**	**Yes**	**12**	**0.02274**	**0.006306**	**0**	**None**	**No**	**0.01**	**NP (normality)**
Cobalt (mg/L)	**PZ-58I**	**0.5929**	**0.3659**	**0.014**	**Yes**	**5**	**0.4794**	**0.06773**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	**PZ-60I**	**3.827**	**3.333**	**0.014**	**Yes**	**5**	**3.58**	**0.1471**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	**PZ-61I**	**0.7712**	**0.382**	**0.014**	**Yes**	**5**	**0.5766**	**0.1162**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	PZ-63I	0.0372	0.01335	0.014	No	4	0.02528	0.005252	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-25I	1.649	0.6555	5	No	19	1.251	1.026	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-27I	1.488	0.6539	5	No	19	1.145	0.8041	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-29I	1.859	1.229	5	No	19	1.544	0.5385	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-30I	1.571	0.7037	5	No	19	1.213	0.8317	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-32S	1.322	0.5448	5	No	19	0.9333	0.6635	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-45	0.9045	0.4255	5	No	20	0.665	0.4218	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-47	1.907	0.8611	5	No	20	1.384	0.9213	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-50	2.126	1.254	5	No	19	1.823	1.076	0	None	ln(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-52I	3.045	1.537	5	No	19	2.595	1.872	0	None	ln(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-44	1.804	0.1445	5	No	7	0.8834	0.8433	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-50D	2.804	0.9298	5	No	6	1.867	0.682	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-51D	3.735	1.251	5	No	6	2.493	0.9042	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-51I	3.695	0.719	5	No	10	2.636	3.453	0	None	ln(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-58I	4.688	0.06812	5	No	5	2.378	1.378	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-60I	5.692	1.724	5	No	5	3.708	1.184	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-61I	3.942	0.4133	5	No	5	1.856	1.106	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-63I	6.03	0.768	5	No	4	2.657	2.335	0	None	No	0.0625	NP (selected)
Fluoride (mg/L)	BRGWC-25I	0.25	0.15	4	No	20	0.2124	0.1265	5	None	No	0.01	NP (normality)
Fluoride (mg/L)	BRGWC-27I	0.2597	0.1685	4	No	20	0.2141	0.08032	10	None	No	0.01	Param.
Fluoride (mg/L)	BRGWC-29I	0.2114	0.09945	4	No	20	0.17	0.1177	10	None	x^(1/3)	0.01	Param.

Confidence Intervals Summary Table - All Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 1/31/2024, 1:49 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride (mg/L)	BRGWC-30I	0.3243	0.1374	4	No	20	0.2501	0.2052	5	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	BRGWC-32S	0.11	0.09	4	No	20	0.1034	0.0383	55	None	No	0.01	NP (NDs)
Fluoride (mg/L)	BRGWC-45	0.166	0.067	4	No	21	0.1761	0.2193	47.62	None	No	0.01	NP (normality)
Fluoride (mg/L)	BRGWC-47	0.28	0.1	4	No	21	0.2283	0.2452	47.62	None	No	0.01	NP (normality)
Fluoride (mg/L)	BRGWC-50	0.7652	0.3657	4	No	20	0.6009	0.4231	0	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	BRGWC-52I	0.2251	0.1389	4	No	19	0.182	0.07363	5.263	None	No	0.01	Param.
Fluoride (mg/L)	PZ-44	0.1933	0.06826	4	No	7	0.1791	0.09553	28.57	Kaplan-Meier	No	0.01	Param.
Fluoride (mg/L)	PZ-50D	0.2345	0.09408	4	No	7	0.1643	0.0591	0	None	No	0.01	Param.
Fluoride (mg/L)	PZ-51D	0.3721	0.2242	4	No	7	0.2981	0.06224	0	None	No	0.01	Param.
Fluoride (mg/L)	PZ-51I	0.12	0.0744	4	No	11	0.1003	0.02209	63.64	None	No	0.006	NP (NDs)
Fluoride (mg/L)	PZ-58I	1.788	0.8055	4	No	5	1.23	0.3281	0	None	ln(x)	0.01	Param.
Fluoride (mg/L)	PZ-60I	2.312	0.9685	4	No	5	1.64	0.4007	0	None	No	0.01	Param.
Fluoride (mg/L)	PZ-61I	0.2124	0.03122	4	No	5	0.1284	0.05446	20	Kaplan-Meier	No	0.01	Param.
Fluoride (mg/L)	PZ-63I	0.3286	0.09985	4	No	4	0.2143	0.05039	0	None	No	0.01	Param.
Lead (mg/L)	BRGWC-25I	0.002	0.00011	0.015	No	19	0.001901	0.0004336	94.74	None	No	0.01	NP (NDs)
Lead (mg/L)	BRGWC-27I	0.002	0.000063	0.015	No	19	0.001898	0.0004444	94.74	None	No	0.01	NP (NDs)
Lead (mg/L)	BRGWC-29I	0.002	0.00029	0.015	No	18	0.0008283	0.0007545	27.78	None	No	0.01	NP (normality)
Lead (mg/L)	BRGWC-30I	0.002	0.00011	0.015	No	19	0.001901	0.0004336	94.74	None	No	0.01	NP (NDs)
Lead (mg/L)	BRGWC-45	0.002	0.000595	0.015	No	20	0.001656	0.0007119	80	None	No	0.01	NP (NDs)
Lead (mg/L)	BRGWC-47	0.002	0.00012	0.015	No	20	0.001712	0.0007042	85	None	No	0.01	NP (NDs)
Lead (mg/L)	BRGWC-50	0.002	0.0001	0.015	No	19	0.001234	0.0009282	57.89	None	No	0.01	NP (NDs)
Lead (mg/L)	BRGWC-52I	0.002	0.000042	0.015	No	19	0.001897	0.0004492	94.74	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-50D	0.002	0.000056	0.015	No	6	0.001676	0.0007936	83.33	None	No	0.0155	NP (NDs)
Lead (mg/L)	PZ-51D	0.002	0.00013	0.015	No	6	0.001688	0.0007634	83.33	None	No	0.0155	NP (NDs)
Lead (mg/L)	PZ-51I	0.002	0.00036	0.015	No	10	0.001653	0.0007329	80	None	No	0.011	NP (NDs)
Lead (mg/L)	PZ-58I	0.005	0.00086	0.015	No	5	0.00253	0.002255	40	None	No	0.031	NP (normality)
Lead (mg/L)	PZ-61I	0.002	0.00113	0.015	No	5	0.001806	0.0003804	60	None	No	0.031	NP (NDs)
Lithium (mg/L)	BRGWC-27I	0.01	0.0014	0.089	No	19	0.003726	0.00386	26.32	None	No	0.01	NP (normality)
Lithium (mg/L)	BRGWC-29I	0.003583	0.003063	0.089	No	19	0.003323	0.0004437	0	None	No	0.01	Param.
Lithium (mg/L)	BRGWC-30I	0.01896	0.01284	0.089	No	19	0.01616	0.005502	0	None	sqrt(x)	0.01	Param.
Lithium (mg/L)	BRGWC-32S	0.0043	0.0021	0.089	No	19	0.005085	0.007125	10.53	None	No	0.01	NP (normality)
Lithium (mg/L)	BRGWC-45	0.003833	0.002971	0.089	No	19	0.003402	0.0007362	10.53	None	No	0.01	Param.
Lithium (mg/L)	BRGWC-47	0.04563	0.04113	0.089	No	20	0.04338	0.003961	0	None	No	0.01	Param.
Lithium (mg/L)	BRGWC-50	0.04439	0.03864	0.089	No	19	0.0417	0.005202	0	None	ln(x)	0.01	Param.
Lithium (mg/L)	BRGWC-52I	0.008695	0.003692	0.089	No	19	0.007458	0.006342	5.263	None	ln(x)	0.01	Param.
Lithium (mg/L)	PZ-44	0.006813	0.004472	0.089	No	7	0.005643	0.0009854	0	None	No	0.01	Param.
Lithium (mg/L)	PZ-50D	0.02759	0.01878	0.089	No	6	0.02318	0.003208	0	None	No	0.01	Param.
Lithium (mg/L)	PZ-51D	0.01024	0.005163	0.089	No	6	0.008033	0.002177	0	None	x^3	0.01	Param.
Lithium (mg/L)	PZ-51I	0.02356	0.01924	0.089	No	10	0.0214	0.002421	0	None	No	0.01	Param.
Lithium (mg/L)	PZ-58I	0.05661	0.03655	0.089	No	5	0.04658	0.005985	0	None	No	0.01	Param.
Lithium (mg/L)	**PZ-60I**	**0.114**	**0.0936**	**0.089**	**Yes**	**5**	**0.1013**	**0.007636**	**0**	**None**	**No**	**0.031**	**NP (selected)**
Lithium (mg/L)	PZ-61I	0.01262	0.00839	0.089	No	5	0.01051	0.001263	0	None	No	0.01	Param.
Lithium (mg/L)	PZ-63I	0.00819	0.003735	0.089	No	4	0.005963	0.0009812	0	None	No	0.01	Param.
Mercury (mg/L)	BRGWC-25I	0.0002	0.000083	0.002	No	17	0.0001837	0.00004662	88.24	None	No	0.01	NP (NDs)
Mercury (mg/L)	BRGWC-27I	0.0002	0.00005	0.002	No	17	0.0001822	0.00005032	88.24	None	No	0.01	NP (NDs)
Mercury (mg/L)	BRGWC-29I	0.0002	0.000098	0.002	No	17	0.0001769	0.00005236	82.35	None	No	0.01	NP (NDs)
Mercury (mg/L)	BRGWC-30I	0.0002	0.000082	0.002	No	17	0.000176	0.00005399	82.35	None	No	0.01	NP (NDs)
Mercury (mg/L)	BRGWC-32S	0.0002	0.0001	0.002	No	17	0.0001807	0.00004308	82.35	None	No	0.01	NP (NDs)
Mercury (mg/L)	PZ-51I	0.0002	0.0002	0.002	No	10	0.0001899	0.00003194	90	None	No	0.011	NP (NDs)
Molybdenum (mg/L)	BRGWC-25I	0.01	0.00092	0.1	No	18	0.005999	0.004605	55.56	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	BRGWC-30I	0.01	0.0012	0.1	No	18	0.006617	0.004373	61.11	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	BRGWC-45	0.01	0.00076	0.1	No	19	0.008004	0.003971	78.95	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	BRGWC-47	0.01	0.000296	0.1	No	19	0.008466	0.003639	84.21	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	BRGWC-50	0.0022	0.001	0.1	No	18	0.001194	0.0005965	88.89	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	BRGWC-52I	0.01	0.000782	0.1	No	18	0.005459	0.004128	38.89	None	No	0.01	NP (normality)

Confidence Intervals Summary Table - All Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 1/31/2024, 1:49 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Molybdenum (mg/L)	PZ-50D	0.001932	0.0006431	0.1	No	6	0.001318	0.0004849	16.67	Kaplan-Meier	No	0.01	Param.
Molybdenum (mg/L)	PZ-51D	0.0054	0.0004734	0.1	No	6	0.002563	0.002181	0	None	sqrt(x)	0.01	Param.
Molybdenum (mg/L)	PZ-51I	0.001	0.000313	0.1	No	10	0.0008596	0.0002961	80	None	No	0.011	NP (NDs)
Molybdenum (mg/L)	PZ-63I	0.001113	0.0003887	0.1	No	4	0.0007508	0.0001595	0	None	No	0.01	Param.
Selenium (mg/L)	BRGWC-25I	0.005	0.0021	0.05	No	19	0.004847	0.0006653	94.74	None	No	0.01	NP (NDs)
Selenium (mg/L)	BRGWC-27I	0.005	0.0025	0.05	No	19	0.003963	0.001231	42.11	None	No	0.01	NP (normality)
Selenium (mg/L)	BRGWC-29I	0.005	0.0042	0.05	No	19	0.004847	0.001272	57.89	None	No	0.01	NP (NDs)
Selenium (mg/L)	BRGWC-30I	0.005	0.0045	0.05	No	19	0.004658	0.0008255	78.95	None	No	0.01	NP (NDs)
Selenium (mg/L)	**BRGWC-32S**	**0.1777**	**0.08972**	**0.05**	**Yes**	**11**	**0.1337**	**0.0528**	**0**	**None**	**No**	**0.01**	**Param.**
Selenium (mg/L)	BRGWC-45	0.005	0.0029	0.05	No	20	0.004895	0.0004696	95	None	No	0.01	NP (NDs)
Selenium (mg/L)	BRGWC-47	0.005	0.002	0.05	No	20	0.00408	0.001462	70	None	No	0.01	NP (NDs)
Selenium (mg/L)	BRGWC-50	0.005	0.002	0.05	No	19	0.003676	0.001412	47.37	None	No	0.01	NP (normality)
Selenium (mg/L)	PZ-58I	0.005268	0.00116	0.05	No	5	0.003214	0.001226	0	None	No	0.01	Param.
Selenium (mg/L)	PZ-60I	0.005387	0.002241	0.05	No	5	0.003814	0.0009389	0	None	No	0.01	Param.
Selenium (mg/L)	PZ-61I	0.008085	0.001571	0.05	No	5	0.004828	0.001944	0	None	No	0.01	Param.
Thallium (mg/L)	BRGWC-29I	0.002	0.00017	0.002	No	19	0.0007537	0.00087	31.58	None	No	0.01	NP (normality)

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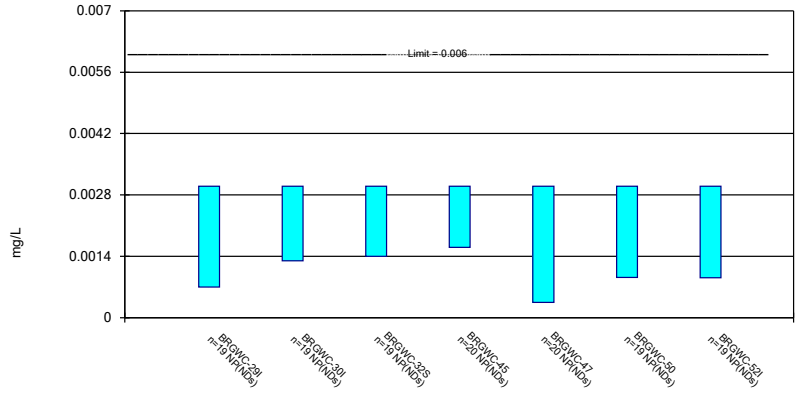
Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Antimony Analysis Run 1/31/2024 1:45 PM View: Pond BCD Appendix IV - Confidence Interv
Plant Branch Client: Southern Company Data: Plant Branch AP

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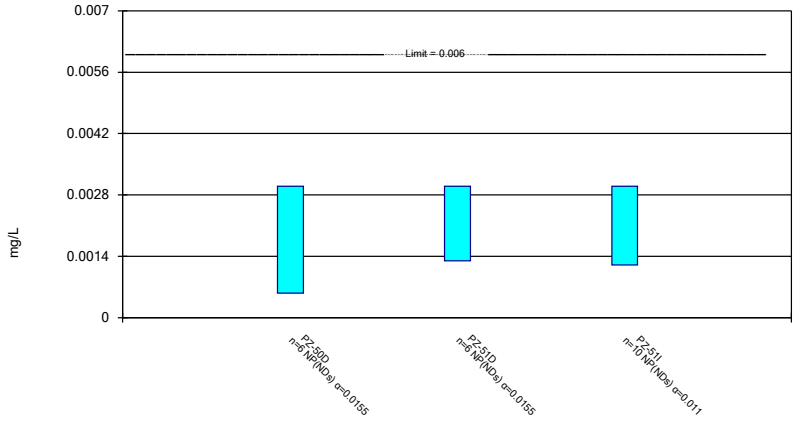
Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Constituent: Antimony Analysis Run 1/31/2024 1:45 PM View: Pond BCD Appendix IV - Confidence Interv
Plant Branch Client: Southern Company Data: Plant Branch AP

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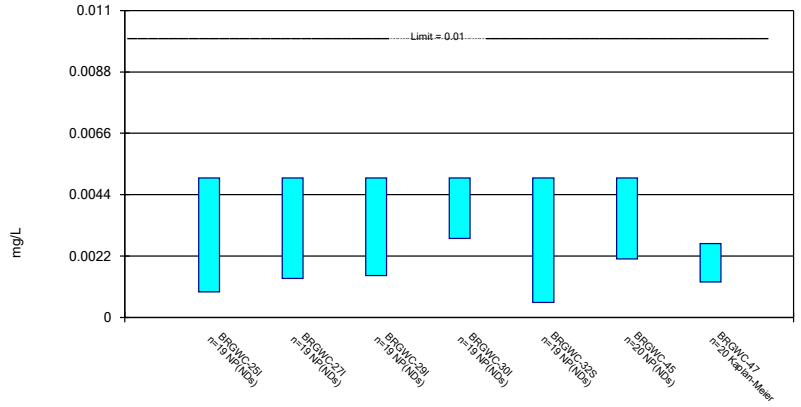
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 1/31/2024 1:45 PM View: Pond BCD Appendix IV - Confidence Interval
Plant Branch Client: Southern Company Data: Plant Branch AP

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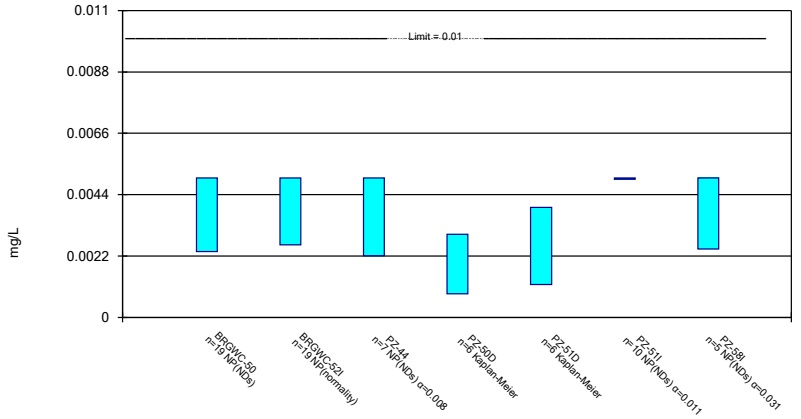
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 1/31/2024 1:45 PM View: Pond BCD Appendix IV - Confidence Interval
Plant Branch Client: Southern Company Data: Plant Branch AP

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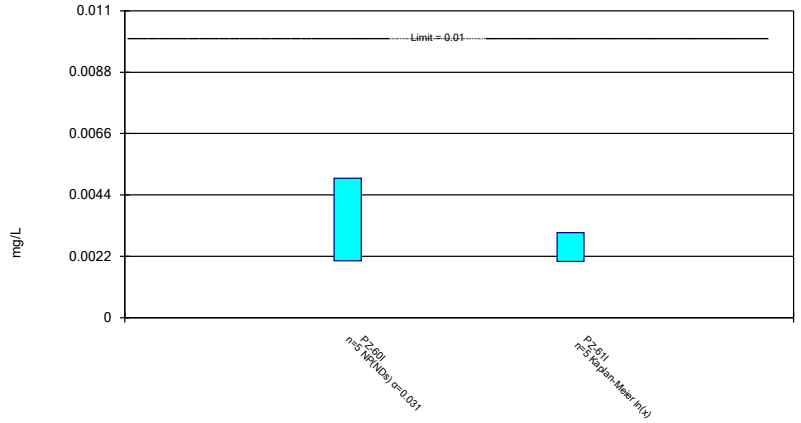
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 1/31/2024 1:45 PM View: Pond BCD Appendix IV - Confidence Interval
Plant Branch Client: Southern Company Data: Plant Branch AP

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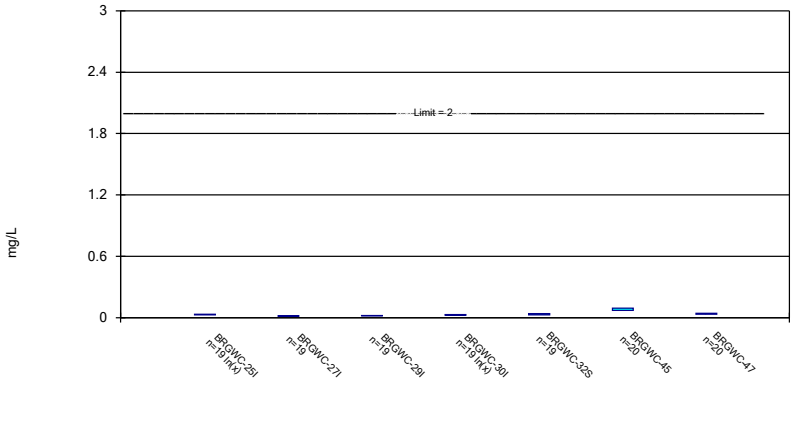
Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 1/31/2024 1:45 PM View: Pond BCD Appendix IV - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

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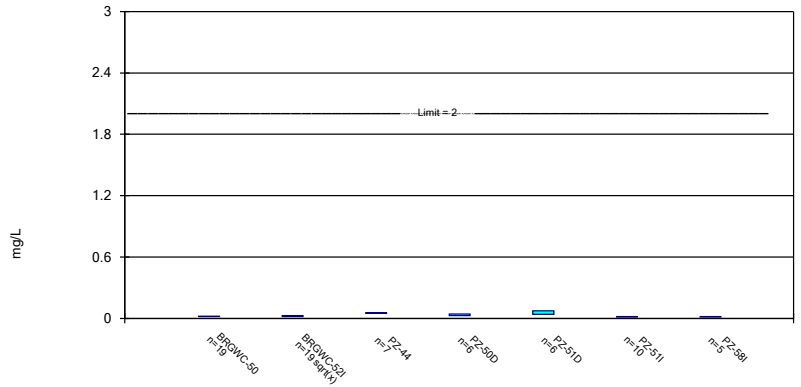
Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 1/31/2024 1:45 PM View: Pond BCD Appendix IV - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

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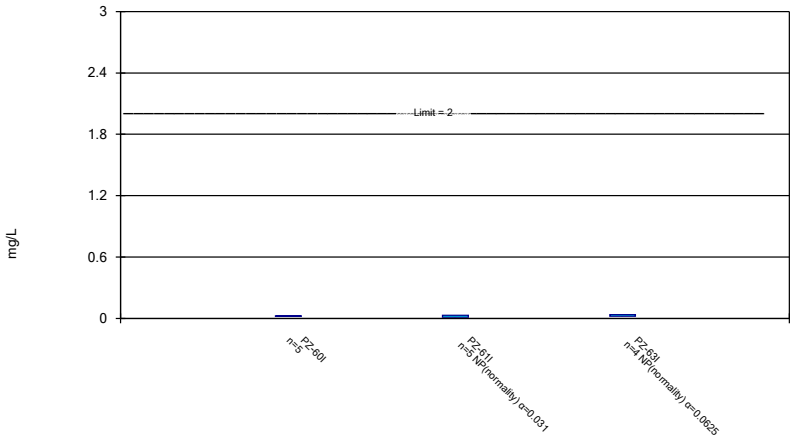
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 1/31/2024 1:45 PM View: Pond BCD Appendix IV - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

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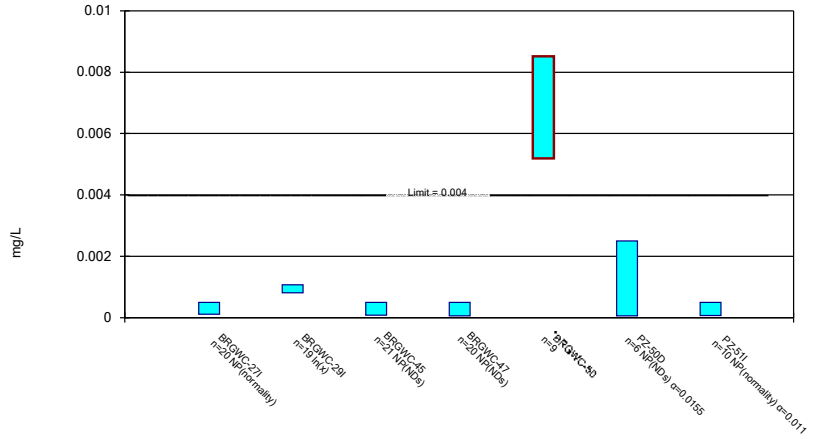
Parametric and Non-Parametric (NP) Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

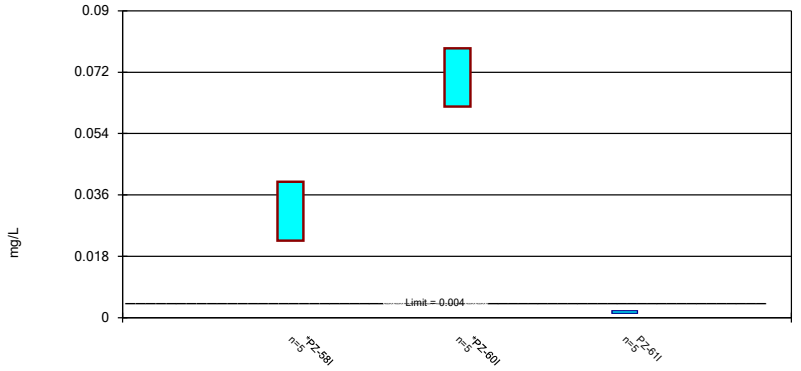


Constituent: Beryllium Analysis Run 1/31/2024 1:45 PM View: Pond BCD Appendix IV - Confidence Interv
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.15 Software licensed to Groundwater Stats Consulting. UG

Parametric Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

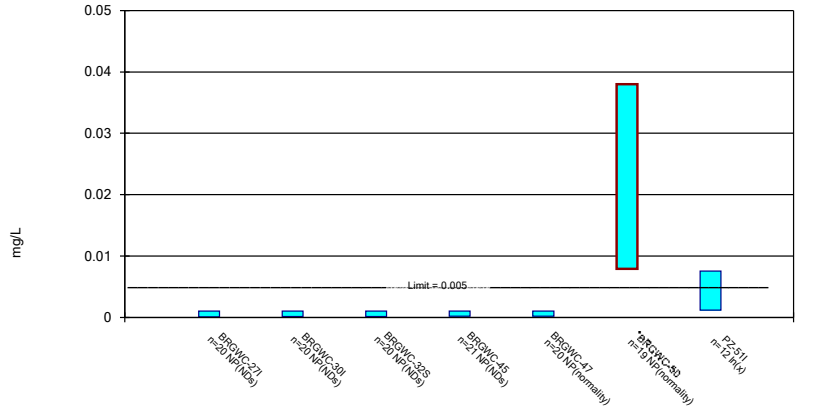


Constituent: Beryllium Analysis Run 1/31/2024 1:45 PM View: Pond BCD Appendix IV - Confidence Interv
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.15 Software licensed to Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

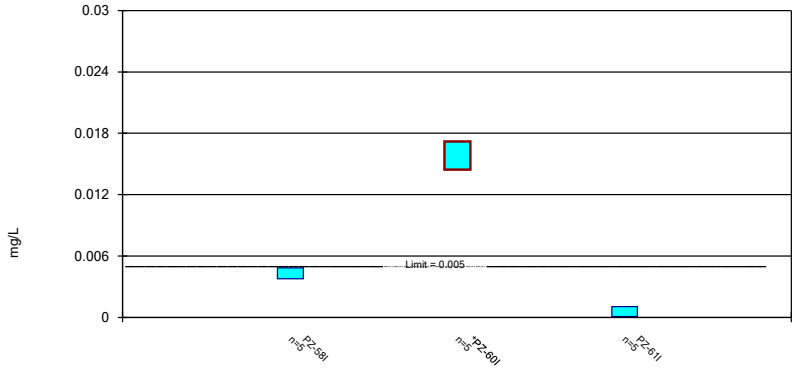


Constituent: Cadmium Analysis Run 1/31/2024 1:46 PM View: Pond BCD Appendix IV - Confidence Interv
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.15 Software licensed to Groundwater Stats Consulting. UG

Parametric Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

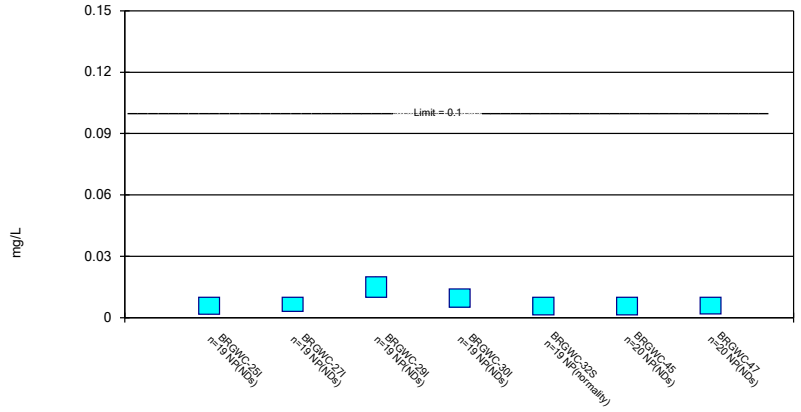


Constituent: Cadmium Analysis Run 1/31/2024 1:46 PM View: Pond BCD Appendix IV - Confidence Interv
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.15 Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

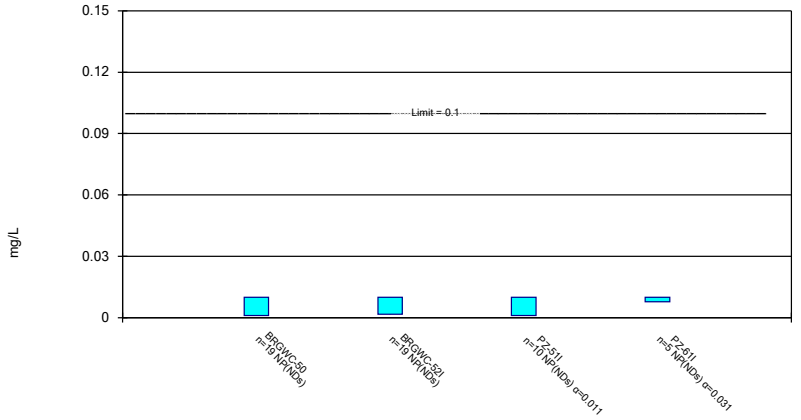


Constituent: Chromium Analysis Run 1/31/2024 1:46 PM View: Pond BCD Appendix IV - Confidence Inter
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.15 Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.

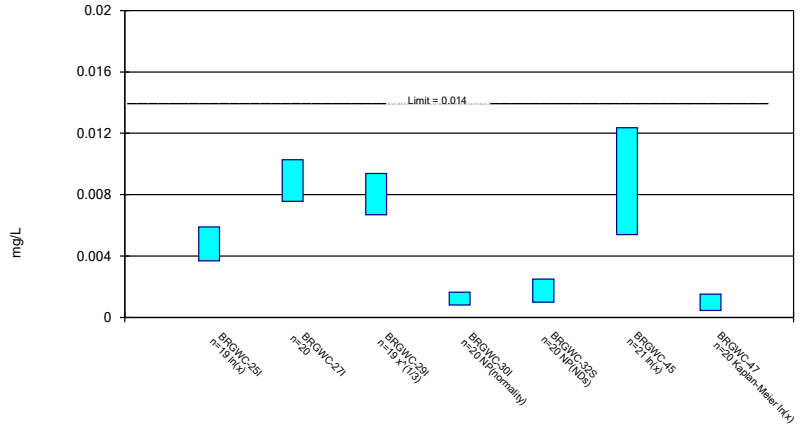


Constituent: Chromium Analysis Run 1/31/2024 1:46 PM View: Pond BCD Appendix IV - Confidence Inter
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.15 Software licensed to Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

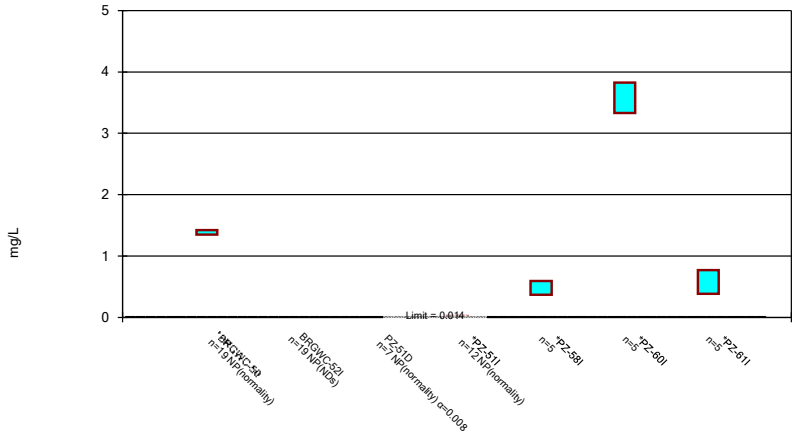


Constituent: Cobalt Analysis Run 1/31/2024 1:46 PM View: Pond BCD Appendix IV - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.15 Software licensed to Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

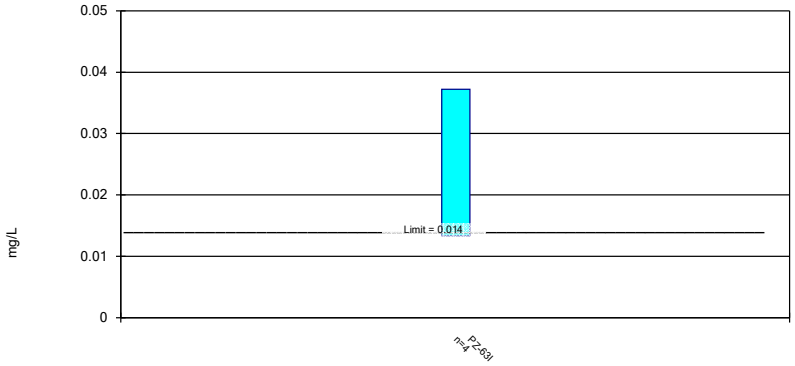


Constituent: Cobalt Analysis Run 1/31/2024 1:46 PM View: Pond BCD Appendix IV - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.15 Software licensed to Groundwater Stats Consulting. UG

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

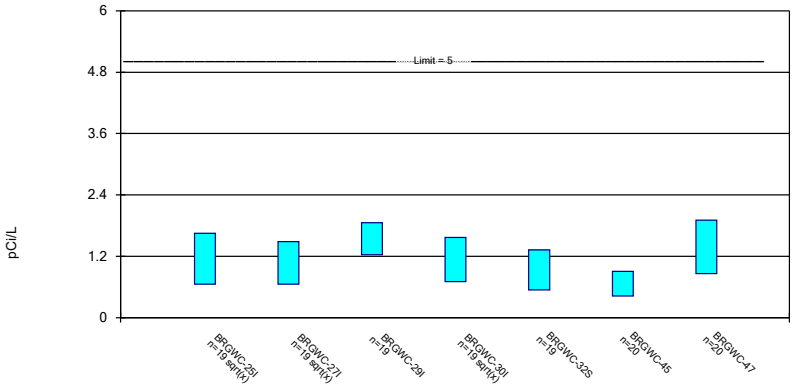


Constituent: Cobalt Analysis Run 1/31/2024 1:46 PM View: Pond BCD Appendix IV - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.15 Software licensed to Groundwater Stats Consulting. UG

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

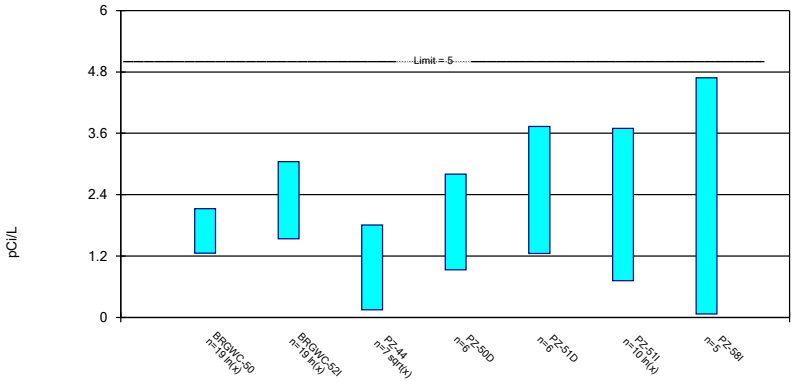


Constituent: Combined Radium 226 + 228 Analysis Run 1/31/2024 1:46 PM View: Pond BCD Appendix IV
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.15 Software licensed to Groundwater Stats Consulting. UG

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

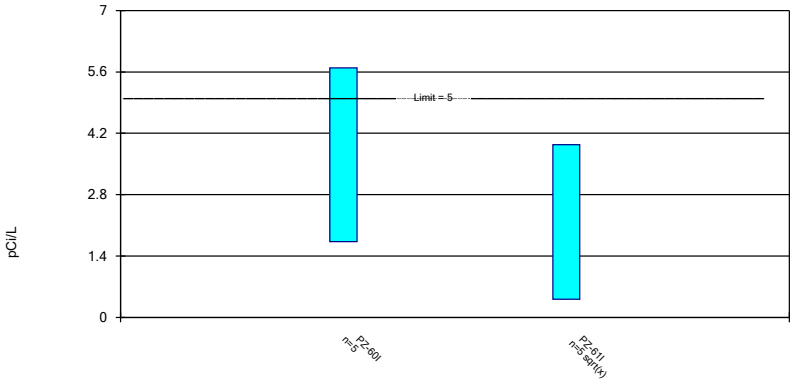


Constituent: Combined Radium 226 + 228 Analysis Run 1/31/2024 1:46 PM View: Pond BCD Appendix IV
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.15 Software licensed to Groundwater Stats Consulting. UG

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

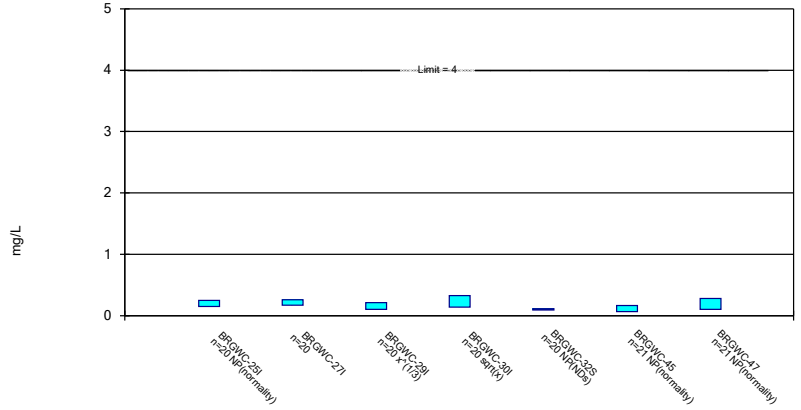


Constituent: Combined Radium 226 + 228 Analysis Run 1/31/2024 1:46 PM View: Pond BCD Appendix IV
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.15 Software licensed to Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

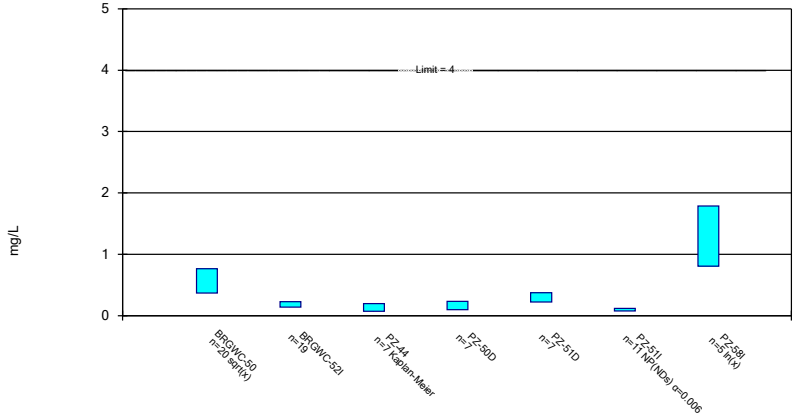


Constituent: Fluoride Analysis Run 1/31/2024 1:46 PM View: Pond BCD Appendix IV - Confidence Interval
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.15 Software licensed to Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

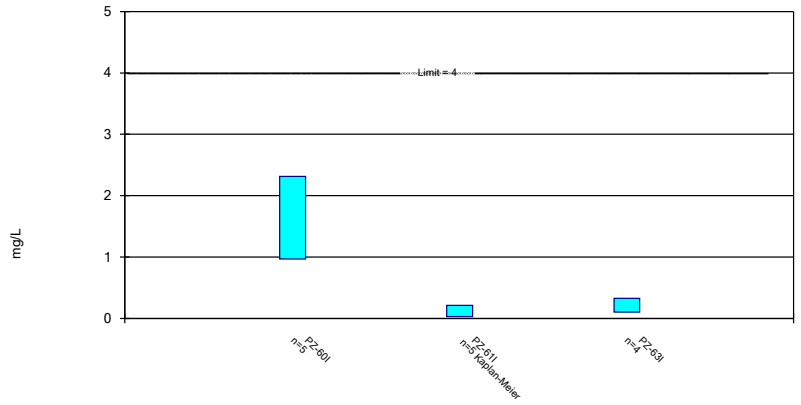


Constituent: Fluoride Analysis Run 1/31/2024 1:46 PM View: Pond BCD Appendix IV - Confidence Interval
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.15 Software licensed to Groundwater Stats Consulting. UG

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

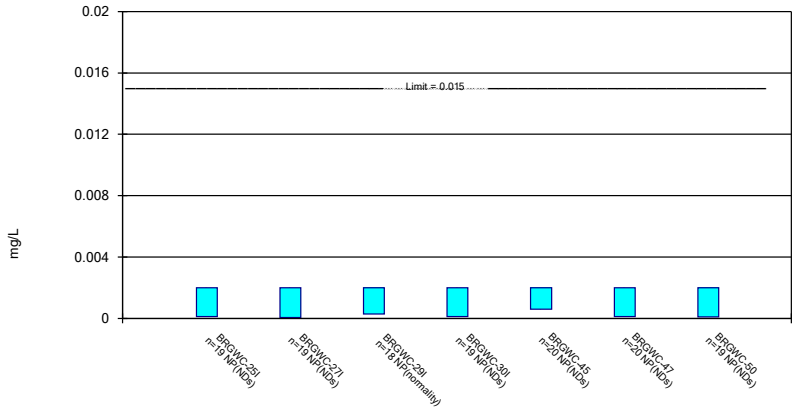


Constituent: Fluoride Analysis Run 1/31/2024 1:46 PM View: Pond BCD Appendix IV - Confidence Interval
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.15 Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

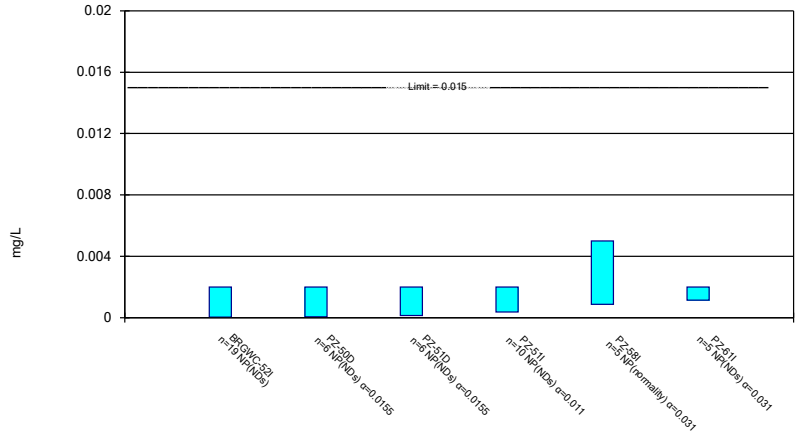


Constituent: Lead Analysis Run 1/31/2024 1:46 PM View: Pond BCD Appendix IV - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.15 Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Lead Analysis Run 1/31/2024 1:46 PM View: Pond BCD Appendix IV - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

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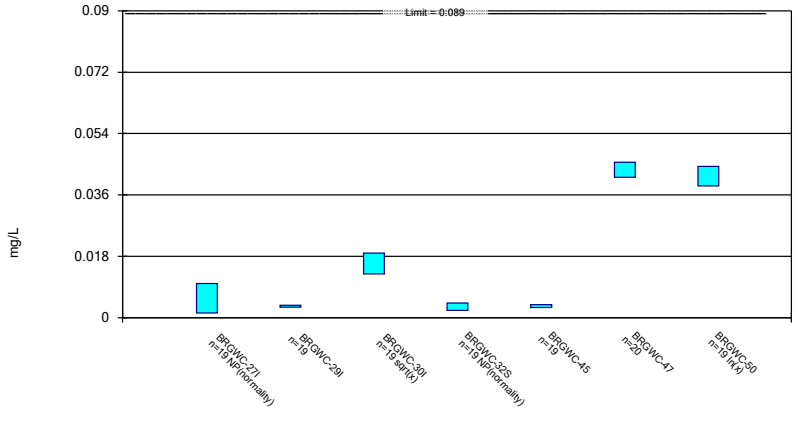
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

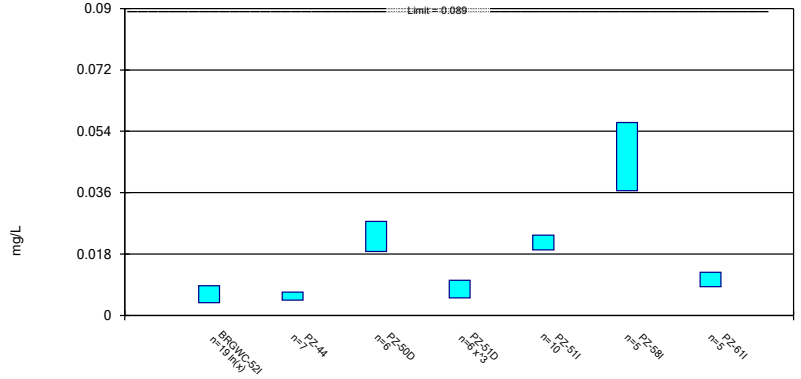


Constituent: Lithium Analysis Run 1/31/2024 1:46 PM View: Pond BCD Appendix IV - Confidence Interval
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.15 Software licensed to Groundwater Stats Consulting. UG

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

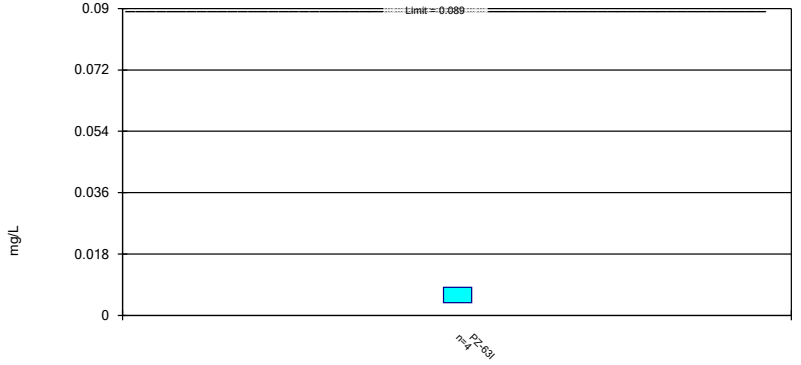


Constituent: Lithium Analysis Run 1/31/2024 1:46 PM View: Pond BCD Appendix IV - Confidence Interval
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.15 Software licensed to Groundwater Stats Consulting. UG

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

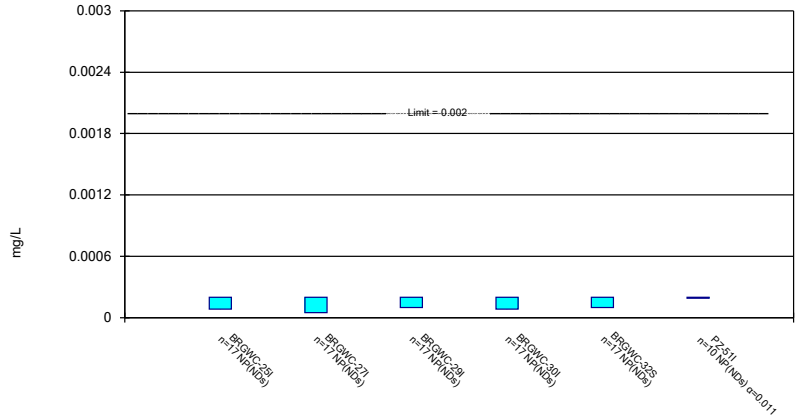


Constituent: Lithium Analysis Run 1/31/2024 1:46 PM View: Pond BCD Appendix IV - Confidence Interval
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.15 Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Mercury Analysis Run 1/31/2024 1:46 PM View: Pond BCD Appendix IV - Confidence Interval
Plant Branch Client: Southern Company Data: Plant Branch AP

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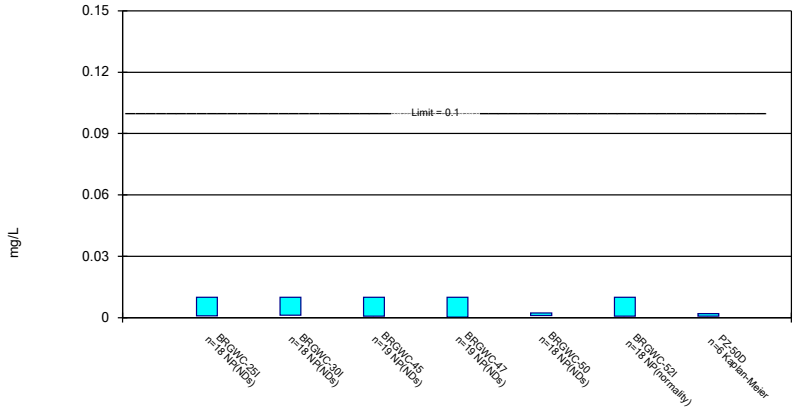
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 1/31/2024 1:46 PM View: Pond BCD Appendix IV - Confidence Int
Plant Branch Client: Southern Company Data: Plant Branch AP

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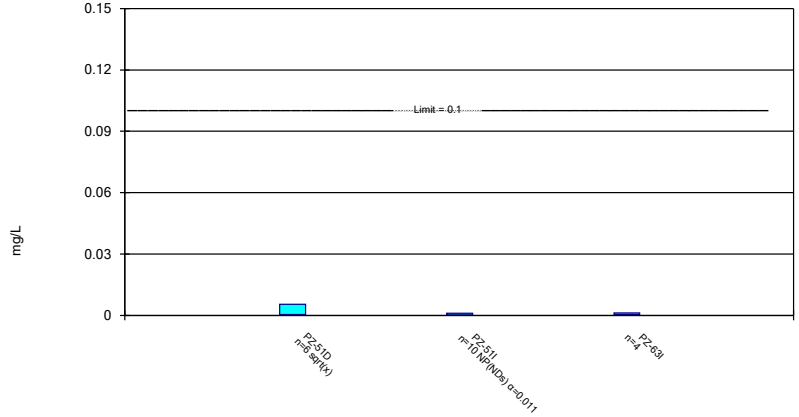
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

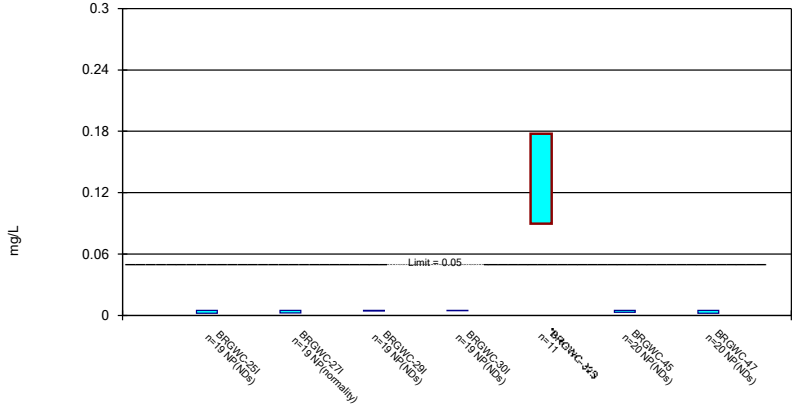


Constituent: Molybdenum Analysis Run 1/31/2024 1:46 PM View: Pond BCD Appendix IV - Confidence Int
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.15 Software licensed to Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 1/31/2024 1:46 PM View: Pond BCD Appendix IV - Confidence Interv
Plant Branch Client: Southern Company Data: Plant Branch AP

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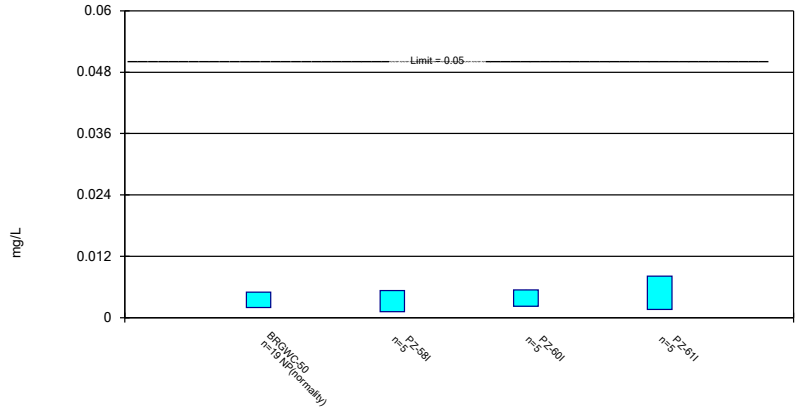
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

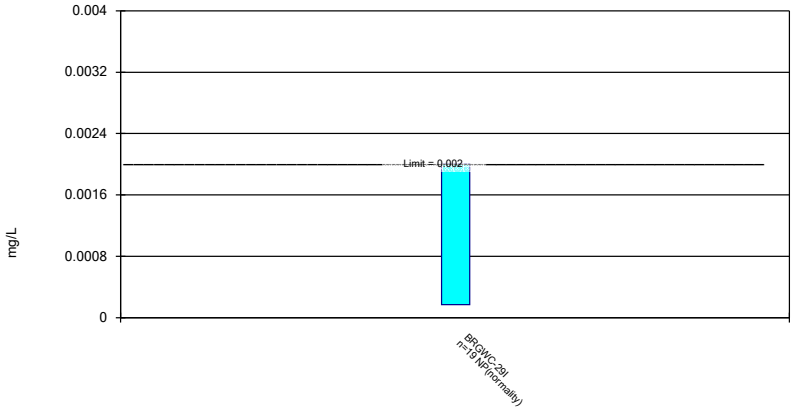


Constituent: Selenium Analysis Run 1/31/2024 1:46 PM View: Pond BCD Appendix IV - Confidence Interv
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.15 Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Thallium Analysis Run 1/31/2024 1:46 PM View: Pond BCD Appendix IV - Confidence Interva
Plant Branch Client: Southern Company Data: Plant Branch AP

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 1/31/2024 1:49 PM View: Pond BCD Appendix IV - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50	BRGWC-52I
9/6/2016		<0.003					
9/8/2016	<0.003		<0.003				
11/21/2016	<0.003	<0.003	<0.003				
2/22/2017	<0.003	<0.003	<0.003				
6/14/2017	0.0007 (J)	<0.003	<0.003				
9/27/2017	<0.003	<0.003	<0.003				
2/14/2018	<0.003	<0.003	<0.003				
3/6/2018				<0.003	<0.003		
3/15/2018						<0.003	
5/1/2018				<0.003	<0.003 (D)	<0.003	
6/27/2018	<0.003		<0.003		<0.003		
6/28/2018		<0.003		<0.003		<0.003	
7/31/2018				<0.003			
8/1/2018					<0.003	<0.003	
8/10/2018							<0.003
8/23/2018				<0.003	<0.003		0.00085 (J)
9/19/2018				<0.003	<0.003		<0.003
10/29/2018				<0.003	<0.003	<0.003	<0.003
11/28/2018				<0.003	<0.003	<0.003	<0.003
12/18/2018	<0.003	<0.003					
12/19/2018			<0.003		<0.003	<0.003	
12/20/2018				0.0024 (J)			<0.003
1/16/2019						<0.003	
1/17/2019							<0.003
2/13/2019							<0.003
8/27/2019		<0.003	<0.003				
8/28/2019	<0.003			0.00046 (J)	<0.003		
8/29/2019						0.00052 (J)	<0.003
10/16/2019	<0.003				<0.003	<0.003	<0.003
12/3/2019				0.00088 (J)			
12/4/2019		<0.003	<0.003				
3/4/2020	<0.003				<0.003	<0.003	0.00043 (J)
3/5/2020		<0.003	0.0014 (J)	0.0016 (J)			
8/19/2020	<0.003	<0.003	<0.003				
8/20/2020				0.0031	<0.003	<0.003	<0.003
9/15/2020	<0.003						
9/16/2020		<0.003	<0.003	0.0012 (J)	0.00035 (J)		
9/17/2020						0.00041 (J)	<0.003
3/2/2021				0.0014 (J)	<0.003		
3/3/2021	<0.003	<0.003					
3/4/2021			<0.003			0.00092 (J)	0.00091 (J)
9/23/2021				<0.003	<0.003		
9/27/2021						<0.003	
9/28/2021	<0.003	<0.003	<0.003				<0.003
2/2/2022		0.0013 (J)	<0.003	<0.003	<0.003		<0.003
2/3/2022	<0.003					<0.003	
8/23/2022					<0.003		
8/24/2022	<0.003	<0.003				<0.003	
8/25/2022			<0.003	<0.003			<0.003
1/24/2023			<0.003				
1/25/2023				<0.003		<0.003	<0.003
1/26/2023	<0.003	<0.003			<0.003		

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 1/31/2024 1:49 PM View: Pond BCD Appendix IV - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50	BRGWC-52I
8/31/2023		<0.003	<0.003				
9/6/2023	<0.003			<0.003	<0.003		<0.003
9/8/2023						<0.003	
Mean	0.002879	0.002911	0.002916	0.002502	0.002868	0.002624	0.002642
Std. Dev.	0.0005277	0.00039	0.0003671	0.0008619	0.0005926	0.0008973	0.0008549
Upper Lim.	0.003	0.003	0.003	0.003	0.003	0.003	0.003
Lower Lim.	0.0007	0.0013	0.0014	0.0016	0.00035	0.00092	0.00091

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 1/31/2024 1:49 PM View: Pond BCD Appendix IV - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

	PZ-50D	PZ-51D	PZ-51I
1/19/2019			<0.003
10/18/2019			<0.003
8/20/2020			0.0017 (J)
9/17/2020			<0.003
3/3/2021		0.0013 (J)	
3/4/2021			0.00079 (J)
3/5/2021	0.00056 (J)		
9/27/2021			0.0012 (J)
9/28/2021	<0.003	<0.003	
2/2/2022			<0.003
2/3/2022	<0.003	<0.003	
8/24/2022		<0.003	<0.003
8/25/2022	<0.003		
1/26/2023		<0.003	<0.003
1/27/2023	<0.003		
9/6/2023		<0.003	
9/8/2023	<0.003		<0.003
Mean	0.002593	0.002717	0.002469
Std. Dev.	0.0009961	0.000694	0.0008816
Upper Lim.	0.003	0.003	0.003
Lower Lim.	0.00056	0.0013	0.0012

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 1/31/2024 1:49 PM View: Pond BCD Appendix IV - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47
9/6/2016				<0.005			
9/8/2016	<0.005	<0.005	<0.005		<0.005		
11/17/2016	<0.005						
11/18/2016		<0.005					
11/21/2016			0.0019 (J)	<0.005	<0.005		
2/21/2017	<0.005	<0.005					
2/22/2017			<0.005	<0.005	<0.005		
6/13/2017	0.0006 (J)	0.0009 (J)					
6/14/2017			0.002 (J)	<0.005	<0.005		
9/27/2017	<0.005	0.0007 (J)	0.0016 (J)	<0.005	<0.005		
2/14/2018	<0.005	<0.005	<0.005	<0.005	<0.005		
3/6/2018						<0.005 (X)	<0.005 (X)
5/1/2018						0.0021 (J)	0.0018 (JD)
6/26/2018	0.00072 (J)						
6/27/2018		<0.005	<0.005		<0.005		0.0016 (J)
6/28/2018				<0.005 (X)		<0.005 (X)	
7/31/2018						<0.005	
8/1/2018							0.0028 (J)
8/23/2018						0.00075 (J)	<0.005
9/19/2018						<0.005	<0.005
10/29/2018						<0.005	0.0012 (J)
11/28/2018						0.00096 (J)	0.0019 (J)
12/18/2018	0.00091 (J)		<0.005	<0.005			
12/19/2018					<0.005		0.00075 (J)
12/20/2018		<0.005				<0.005	
8/27/2019	<0.005			<0.005	<0.005		
8/28/2019		0.0014 (J)	0.00051 (J)			0.00058 (J)	0.0018 (J)
10/15/2019	0.00052 (J)						
10/16/2019			0.00065 (J)				<0.005
12/3/2019						0.0007 (J)	
12/4/2019		0.0011 (J)		0.00056 (J)	0.00053 (J)		
3/4/2020	<0.005	<0.005	0.00044 (J)				0.00049 (J)
3/5/2020				<0.005	<0.005	<0.005	
8/19/2020	<0.005	<0.005	<0.005	<0.005	<0.005		
8/20/2020						<0.005	0.00089 (J)
9/15/2020	<0.005		<0.005				
9/16/2020		<0.005		<0.005	<0.005	<0.005	<0.005
3/2/2021	<0.005					<0.005	<0.005
3/3/2021		<0.005	0.0015 (J)	<0.005			
3/4/2021					<0.005		
9/23/2021						<0.005	0.002 (J)
9/28/2021	<0.005	<0.005	<0.005	<0.005	<0.005		
2/2/2022	<0.005			<0.005	<0.005	<0.005	0.0056
2/3/2022			<0.005				
2/4/2022		<0.005					
8/23/2022	<0.005						0.00228 (J)
8/24/2022			<0.005	0.00283 (J)			
8/25/2022		<0.005			<0.005	<0.005	
1/24/2023					<0.005		
1/25/2023		<0.005				0.00225 (J)	
1/26/2023	<0.005		<0.005	0.00208 (J)			0.0024 (J)
8/31/2023				<0.005	<0.005		

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 1/31/2024 1:49 PM View: Pond BCD Appendix IV - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47
9/6/2023	<0.005	<0.005	<0.005			<0.005	0.0038 (J)
Mean	0.004092	0.004163	0.003611	0.004498	0.004765	0.003867	0.002965
Std. Dev.	0.001808	0.001669	0.001909	0.001251	0.001025	0.001817	0.001753
Upper Lim.	0.005	0.005	0.005	0.005	0.005	0.005	0.002641
Lower Lim.	0.00091	0.0014	0.0015	0.00283	0.00053	0.0021	0.001266

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 1/31/2024 1:49 PM View: Pond BCD Appendix IV - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-50	BRGWC-52I	PZ-44	PZ-50D	PZ-51D	PZ-51I	PZ-58I
3/6/2018			<0.005 (X)				
3/15/2018	0.0014 (J)						
5/1/2018	<0.005		<0.005				
6/28/2018	<0.005						
8/1/2018	0.00074 (J)						
8/10/2018		<0.005					
8/23/2018		<0.005					
9/19/2018		0.0013 (J)					
10/29/2018	<0.005	0.0038 (J)					
11/28/2018	<0.005	0.0016 (J)					
12/19/2018	<0.005						
12/20/2018		0.0032 (J)					
1/16/2019	<0.005						
1/17/2019		0.0032 (J)					
1/19/2019						<0.005	
2/13/2019		<0.005					
8/29/2019	<0.005	0.00067 (J)					
10/16/2019	<0.005	0.0026 (J)					
10/18/2019						<0.005	
3/4/2020	0.00046 (J)	0.0047 (J)					
8/20/2020	<0.005	0.0031 (J)				<0.005	
9/17/2020	<0.005	<0.005				<0.005	
3/3/2021					0.0014 (J)		
3/4/2021	<0.005	0.003 (J)				<0.005	
3/5/2021				0.00087 (J)			
9/27/2021	<0.005					<0.005	
9/28/2021		<0.005	<0.005	<0.005	<0.005		<0.005
2/2/2022		<0.005	0.004 (J)			<0.005	
2/3/2022	<0.005			0.0012 (J)	0.0015 (J)		<0.005
8/24/2022	0.0025 (J)				0.00308 (J)	0.00222 (J)	0.00245 (J)
8/25/2022		<0.005	<0.005	0.00235 (J)			
1/25/2023	0.00236 (J)	<0.005	0.00221 (J)				
1/26/2023					0.00275 (J)	<0.005	<0.005
1/27/2023				0.00215 (J)			
9/6/2023		<0.005			0.00408 (J)		
9/8/2023	<0.005		<0.005	0.003 (J)		<0.005	<0.005
Mean	0.004077	0.003798	0.004459	0.002428	0.002968	0.004722	0.00449
Std. Dev.	0.001646	0.001452	0.001059	0.001481	0.001417	0.0008791	0.00114
Upper Lim.	0.005	0.005	0.005	0.002982	0.003948	0.005	0.005
Lower Lim.	0.00236	0.0026	0.00221	0.0008455	0.001176	0.005	0.00245

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 1/31/2024 1:49 PM View: Pond BCD Appendix IV - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	PZ-60I	PZ-61I
9/27/2021		0.0023 (J)
9/28/2021	<0.005	
2/2/2022		<0.005
2/3/2022	<0.005	
8/24/2022	0.00358 (J)	0.00295 (J)
1/26/2023	0.00204 (J)	0.00225 (J)
8/31/2023		<0.005
9/8/2023	<0.005	
Mean	0.004124	0.0035
Std. Dev.	0.001317	0.001397
Upper Lim.	0.005	0.003048
Lower Lim.	0.00204	0.002019

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 1/31/2024 1:49 PM View: Pond BCD Appendix IV - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47
9/6/2016				0.0206			
9/8/2016	0.0378	0.0184	0.0199		0.0593		
11/17/2016	0.0448						
11/18/2016		0.0173					
11/21/2016			0.0221 (J)	0.0237 (J)	0.0532 (BR)		
2/21/2017	0.0447	0.015					
2/22/2017			0.0179	0.0219	0.0498		
6/13/2017	0.0351	0.0143					
6/14/2017			0.0157	0.0197	0.0421		
9/27/2017	0.0383	0.017	0.0165	0.0213	0.0411		
2/14/2018	0.0327	0.0166	0.0163	0.0236	0.0417		
3/6/2018						0.1	0.0519
5/1/2018						0.084	0.057 (D)
6/26/2018	0.031						
6/27/2018		0.015	0.017		0.038		0.046
6/28/2018				0.023		0.067	
7/31/2018						0.087 (J+X)	
8/1/2018							0.043 (J+X)
8/23/2018						0.084	0.038
9/19/2018						0.086	0.036
10/29/2018						0.098 (J+X)	0.041 (J+X)
11/28/2018						0.11	0.039
12/18/2018	0.03		0.017	0.029			
12/19/2018					0.036		0.04
12/20/2018		0.015				0.093	
8/27/2019	0.027			0.027	0.032		
8/28/2019		0.019	0.02			0.11	0.035
10/15/2019	0.027						
10/16/2019			0.019				0.032
12/3/2019						0.099	
12/4/2019		0.016		0.021	0.028		
3/4/2020	0.026	0.015	0.018				0.038
3/5/2020				0.025	0.026	0.078	
8/19/2020	0.027	0.016	0.019	0.026	0.025		
8/20/2020						0.083	0.035
9/15/2020	0.024		0.017				
9/16/2020		0.016		0.022	0.024	0.085	0.028
3/2/2021	0.026					0.061	0.036
3/3/2021		0.016	0.021	0.028			
3/4/2021					0.024		
9/23/2021						0.064	0.031
9/28/2021	0.023	0.013	0.017	0.035	0.02		
2/2/2022	0.023			0.031	0.023	0.063	0.028
2/3/2022			0.016				
2/4/2022		0.015					
8/23/2022	0.0259						0.0285
8/24/2022			0.0175	0.0389			
8/25/2022		0.0161			0.0231	0.0574	
1/24/2023					0.0182		
1/25/2023		0.0166				0.0695	
1/26/2023	0.0293		0.018	0.0397			0.0311
8/31/2023				0.04	0.0243		

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 1/31/2024 1:49 PM View: Pond BCD Appendix IV - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47
9/6/2023	0.0271	0.0151	0.0174			0.0524	0.028
Mean	0.03051	0.01592	0.01802	0.02718	0.03309	0.08157	0.03713
Std. Dev.	0.00672	0.001409	0.001739	0.006723	0.01202	0.0172	0.007917
Upper Lim.	0.03371	0.01674	0.01903	0.03032	0.04014	0.09133	0.04162
Lower Lim.	0.02648	0.01509	0.017	0.02311	0.02605	0.0718	0.03263

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 1/31/2024 1:49 PM View: Pond BCD Appendix IV - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-50	BRGWC-52I	PZ-44	PZ-50D	PZ-51D	PZ-51I	PZ-58I
3/6/2018			0.0461				
3/15/2018	0.021						
5/1/2018	0.024		0.052				
6/28/2018	0.021						
8/1/2018	0.02 (J+X)						
8/10/2018		0.038					
8/23/2018		0.03 (JX)					
9/19/2018		0.03					
10/29/2018	0.019 (J+X)	0.025 (J+X)					
11/28/2018	0.02	0.017					
12/19/2018	0.02						
12/20/2018		0.013					
1/16/2019	0.02						
1/17/2019		0.017					
1/19/2019						0.017	
2/13/2019		0.025					
8/29/2019	0.018	0.017					
10/16/2019	0.017	0.015					
10/18/2019						0.014	
3/4/2020	0.019	0.022					
8/20/2020	0.019	0.017				0.013	
9/17/2020	0.02	0.02				0.015	
3/3/2021					0.08		
3/4/2021	0.025	0.019				0.016	
3/5/2021				0.043			
9/27/2021	0.017					0.014	
9/28/2021		0.013	0.049	0.034	0.057		0.017
2/2/2022		0.013	0.052			0.015	
2/3/2022	0.016			0.033	0.057		0.016
8/24/2022	0.0166				0.0584	0.0154	0.0181
8/25/2022		0.0179	0.056	0.0257			
1/25/2023	0.0165	0.0249	0.0498				
1/26/2023					0.0481	0.0152	0.0167
1/27/2023				0.0315			
9/6/2023		0.0415			0.0448		
9/8/2023	0.0166		0.0555	0.0312		0.0149	0.0173
Mean	0.01925	0.02186	0.05149	0.03307	0.05755	0.01495	0.01702
Std. Dev.	0.002456	0.008206	0.003537	0.005652	0.01231	0.001115	0.0007727
Upper Lim.	0.02069	0.02593	0.05569	0.04083	0.07446	0.01594	0.01831
Lower Lim.	0.01781	0.01695	0.04728	0.0253	0.04064	0.01396	0.01573

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 1/31/2024 1:49 PM View: Pond BCD Appendix IV - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

	PZ-60I	PZ-61I	PZ-63I
9/27/2021		0.029	
9/28/2021	0.022		
2/2/2022		0.015	
2/3/2022	0.021		
2/4/2022			0.037
8/24/2022	0.0226	0.0133	
8/25/2022			0.023
1/26/2023	0.0218	0.0125	
1/30/2023			0.022
8/31/2023		0.0127	
9/8/2023	0.0232		0.0221
Mean	0.02212	0.0165	0.02603
Std. Dev.	0.0008319	0.007057	0.00733
Upper Lim.	0.02351	0.029	0.037
Lower Lim.	0.02073	0.0125	0.022

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 1/31/2024 1:49 PM View: Pond BCD Appendix IV - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-27I	BRGWC-29I	BRGWC-45	BRGWC-47	BRGWC-50	PZ-50D	PZ-51I
9/8/2016	0.0002 (J)	0.0011 (J)					
11/18/2016	0.0002 (J)						
11/21/2016		0.0012 (J)					
2/21/2017	0.0002 (J)						
2/22/2017		0.0014 (J)					
6/13/2017	0.0002 (J)						
6/14/2017		0.0012 (J)					
9/27/2017	0.0001 (J)	0.001 (J)					
2/14/2018	<0.0005	<0.003					
3/6/2018			<0.0005	<0.0005			
3/15/2018					<0.003		
5/1/2018			<0.0005	<0.0005 (D)	<0.003		
6/27/2018	0.00014 (J)	0.0008 (J)		<0.0005			
6/28/2018			<0.0005		0.003 (J)		
7/31/2018			<0.0005				
8/1/2018				<0.0005	0.0025 (J)		
8/23/2018			7.9E-05 (J)	5.5E-05 (J)			
9/19/2018			<0.0005	<0.0005			
10/29/2018			<0.0005	<0.0005	0.0042		
11/28/2018			<0.0005	5.6E-05 (J)	0.0029 (J)		
12/18/2018		0.00071 (J)					
12/19/2018				<0.0005 (X)	0.0043		
12/20/2018	<0.0005 (X)		<0.0005				
1/16/2019					0.0038		
1/19/2019							6.4E-05 (J)
8/28/2019	0.00012 (J)	0.0008 (J)	<0.0005	<0.0005			
8/29/2019					0.0029 (J)		
10/16/2019		0.00072 (J)		<0.0005	0.0027 (J)		
10/17/2019	<0.0005		<0.0005				
10/18/2019							<0.0005
12/3/2019			<0.0005				
12/4/2019	0.00012 (J)						
3/4/2020	0.00012 (J)	0.00073 (J)		<0.0005	0.0052		
3/5/2020			<0.0005				
8/19/2020	9.9E-05 (J)	0.00074 (J)					
8/20/2020			4.6E-05 (J)	4.7E-05 (J)	0.0044		7.7E-05 (J)
9/15/2020		0.00071 (J)					
9/16/2020	0.00011 (J)		<0.0005	<0.0005			
9/17/2020					0.0065		9.6E-05 (J)
3/2/2021			<0.0005	<0.0005			
3/3/2021	7.1E-05 (J)	0.00094					
3/4/2021					0.0059		9.7E-05 (J)
3/5/2021						<0.0025	
9/23/2021			<0.0005	<0.0005			
9/27/2021					0.006		7.1E-05 (J)
9/28/2021	<0.0005	0.00079				5.9E-05 (J)	
2/2/2022			<0.0005	<0.0005			7.1E-05 (J)
2/3/2022		0.00083			0.0071	<0.0025	
2/4/2022	5.4E-05 (J)						
8/23/2022				<0.0005			
8/24/2022		0.000845			0.00831		<0.0005
8/25/2022	<0.0005		<0.0005			0.000269 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 1/31/2024 1:49 PM View: Pond BCD Appendix IV - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-27I	BRGWC-29I	BRGWC-45	BRGWC-47	BRGWC-50	PZ-50D	PZ-51I
1/25/2023	<0.0005		<0.0005		0.00962		
1/26/2023		0.00109		<0.0005			<0.0005
1/27/2023						<0.0025	
9/6/2023	<0.0005	0.00113	<0.0005	<0.0005			
9/8/2023					0.00867	<0.0025	<0.0005
Mean	0.0002617	0.0009597	0.0004583	0.0004329	0.006856	0.001721	0.0002476
Std. Dev.	0.000184	0.0002429	0.0001317	0.0001639	0.001719	0.001208	0.0002175
Upper Lim.	0.0005	0.001074	0.0005	0.0005	0.008516	0.0025	0.0005
Lower Lim.	0.00011	0.0008106	7.9E-05	5.6E-05	0.005195	5.9E-05	7.1E-05

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 1/31/2024 1:49 PM View: Pond BCD Appendix IV - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

	PZ-58I	PZ-60I	PZ-61I
9/27/2021			0.0017
9/28/2021	0.025	0.065	
2/2/2022			0.0015
2/3/2022	0.027	0.072	
8/24/2022	0.0335	0.0703	0.00198
1/26/2023	0.0377	0.0782	0.00164
8/31/2023			0.00145
9/8/2023	0.0328	0.067	
Mean	0.0312	0.0705	0.001654
Std. Dev.	0.005152	0.005101	0.0002085
Upper Lim.	0.03983	0.07905	0.002003
Lower Lim.	0.02257	0.06195	0.001305

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 1/31/2024 1:49 PM View: Pond BCD Appendix IV - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-27I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50	PZ-51I
9/6/2016		<0.001					
9/8/2016	7E-05 (J)		<0.001				
11/18/2016	9E-05 (J)						
11/21/2016		8E-05 (J)	8E-05 (J)				
2/21/2017	<0.001						
2/22/2017		<0.001	0.0001 (J)				
6/13/2017	<0.001						
6/14/2017		<0.001	<0.001				
9/27/2017	<0.001	<0.001	<0.001				
2/14/2018	<0.001	<0.001	<0.001				
3/6/2018				<0.001	<0.001		
3/15/2018						0.038	
5/1/2018				<0.001	<0.001 (D)	0.011	
6/27/2018	<0.001		0.00011 (J)		0.00014 (J)		
6/28/2018		<0.001		<0.001		0.087	
7/31/2018				<0.001			
8/1/2018					0.00011 (J)	0.042	
8/3/2018							0.0015
8/23/2018				<0.001	0.00018 (J)		
9/19/2018				<0.001	0.00015 (J)		
10/29/2018				9.8E-05 (J)	0.00019 (J)	0.083	
11/28/2018				<0.001	0.00022 (J)	0.031	
12/18/2018		<0.001					
12/19/2018			<0.001 (X)		<0.001	0.042	
12/20/2018	<0.001			<0.001 (X)			
1/16/2019						0.028	
1/19/2019							0.0016
8/27/2019		<0.001	<0.001				
8/28/2019	<0.001			<0.001	0.00017 (J)		
8/29/2019						0.0071	
10/16/2019					0.00018 (J)	0.014	
10/17/2019	<0.001	<0.001	<0.001	<0.001			
10/18/2019							0.00083 (J)
12/3/2019				0.00011 (J)			
12/4/2019	<0.001	<0.001	<0.001				
3/4/2020	<0.001				0.00024 (J)	0.013	
3/5/2020		<0.001	<0.001	<0.001			
8/19/2020	<0.001	<0.001	<0.001				
8/20/2020				0.00014 (J)	<0.001	0.0079	0.0019 (J)
9/16/2020	<0.001	<0.001	<0.001	<0.001	<0.001		
9/17/2020						0.021	0.033
10/27/2020							0.0051
3/2/2021				0.0002 (J)	<0.001		
3/3/2021	<0.001	<0.001					
3/4/2021			<0.001			0.019	0.017
9/23/2021				<0.001	<0.001		
9/27/2021						0.0095	0.0031
9/28/2021	<0.001	<0.001	<0.001				
2/2/2022		0.00014 (J)	<0.001	<0.001	0.00015 (J)		0.0043
2/3/2022						0.0085	
2/4/2022	<0.001						
8/23/2022					<0.001		

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 1/31/2024 1:49 PM View: Pond BCD Appendix IV - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-27I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50	PZ-51I
8/24/2022		<0.001				0.00818	0.00478
8/25/2022	<0.001		<0.001	<0.001			
1/24/2023			<0.001				
1/25/2023	<0.001			<0.001		0.00726	
1/26/2023		<0.001			<0.001		0.00101
8/31/2023		<0.001	<0.001				
9/6/2023	<0.001			<0.001	<0.001		
9/8/2023						0.00744	0.000679 (J)
Mean	0.000908	0.000911	0.0008645	0.0008356	0.0005865	0.02552	0.006233
Std. Dev.	0.0002832	0.0002741	0.000331	0.0003477	0.0004251	0.0242	0.009531
Upper Lim.	0.001	0.001	0.001	0.001	0.001	0.038	0.007544
Lower Lim.	9E-05	0.00014	0.00011	0.0002	0.00017	0.0079	0.00117

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 1/31/2024 1:49 PM View: Pond BCD Appendix IV - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

	PZ-58I	PZ-60I	PZ-61I
9/27/2021			0.00081
9/28/2021	0.0042	0.016	
2/2/2022			0.00014 (J)
2/3/2022	0.0038	0.016	
8/24/2022	0.0046	0.017	0.000859 (J)
1/26/2023	0.00435	0.0152	0.000517 (J)
8/31/2023			0.000496 (J)
9/8/2023	0.00453	0.0149	
Mean	0.004296	0.01582	0.0005644
Std. Dev.	0.0003183	0.0008198	0.000289
Upper Lim.	0.004829	0.01719	0.001049
Lower Lim.	0.003763	0.01445	8.008E-05

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 1/31/2024 1:49 PM View: Pond BCD Appendix IV - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47
9/6/2016				<0.01			
9/8/2016	<0.01	0.001 (J)	<0.01		<0.01		
11/17/2016	<0.01						
11/18/2016		<0.01					
11/21/2016			<0.01	<0.01	<0.01		
2/21/2017	<0.01	<0.01					
2/22/2017			<0.01	<0.01	0.0012 (J)		
6/13/2017	<0.01	<0.01					
6/14/2017			<0.01	<0.01	0.0009 (J)		
9/27/2017	<0.01	<0.01	<0.01	<0.01	0.0011 (J)		
2/14/2018	<0.01	<0.01	<0.01	<0.01	<0.01		
3/6/2018						<0.01	<0.01
5/1/2018						<0.01	<0.01 (D)
6/26/2018	<0.01						
6/27/2018		<0.01	<0.01		<0.01		<0.01
6/28/2018				<0.01		<0.01	
7/31/2018						<0.01	
8/1/2018							<0.01
8/23/2018						<0.01	<0.01
9/19/2018						<0.01	<0.01
10/29/2018						<0.01	<0.01
11/28/2018						<0.01	<0.01
12/18/2018	<0.01		<0.01	<0.01			
12/19/2018					<0.01		0.0018 (J)
12/20/2018		0.003 (J)				<0.01	
8/27/2019	0.0016 (J)			0.0051 (J)	0.0019 (J)		
8/28/2019		<0.01	<0.01			<0.01	0.00092 (J)
10/15/2019	0.00098 (J)						
10/16/2019			<0.01				<0.01
12/3/2019						<0.01	
12/4/2019		<0.01		<0.01	0.0014 (J)		
3/4/2020	<0.01	<0.01	0.02				0.00078 (J)
3/5/2020				<0.01	0.0014 (J)	0.00053 (J)	
8/19/2020	<0.01	<0.01	<0.01	<0.01	0.0021 (J)		
8/20/2020						0.001 (J)	0.00064 (J)
9/15/2020	<0.01		<0.01				
9/16/2020		<0.01		0.014	0.0025 (J)	0.0014 (J)	<0.01
3/2/2021	<0.01					<0.01	<0.01
3/3/2021		<0.01	<0.01	<0.01			
3/4/2021					0.002 (J)		
9/23/2021						<0.01	<0.01
9/28/2021	<0.01	<0.01	<0.01	<0.01	0.0021 (J)		
2/2/2022	<0.01			<0.01	0.0021 (J)	<0.01	<0.01
2/3/2022			<0.01				
2/4/2022		<0.01					
8/23/2022	<0.01						<0.01
8/24/2022			<0.01	<0.01			
8/25/2022		<0.01			<0.01	<0.01	
1/24/2023					<0.01		
1/25/2023		<0.01				<0.01	
1/26/2023	<0.01		<0.01	<0.01			<0.01
8/31/2023				<0.01	<0.01		

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 1/31/2024 1:49 PM View: Pond BCD Appendix IV - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47
9/6/2023	<0.01	<0.01	<0.01			<0.01	<0.01
Mean	0.009083	0.009158	0.01053	0.009953	0.005195	0.008646	0.008207
Std. Dev.	0.002748	0.002544	0.002294	0.00149	0.004228	0.003309	0.003685
Upper Lim.	0.01	0.01	0.02	0.014	0.01	0.01	0.01
Lower Lim.	0.0016	0.003	0.01	0.0051	0.0014	0.0014	0.0018

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 1/31/2024 1:49 PM View: Pond BCD Appendix IV - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-50	BRGWC-52I	PZ-51I	PZ-61I
3/15/2018	<0.01			
5/1/2018	<0.01			
6/28/2018	0.0023 (J)			
8/1/2018	0.0046 (J)			
8/10/2018		0.0017 (J)		
8/23/2018		<0.01		
9/19/2018		<0.01		
10/29/2018	<0.01	<0.01		
11/28/2018	<0.01	<0.01		
12/19/2018	<0.01			
12/20/2018		<0.01		
1/16/2019	<0.01			
1/17/2019		<0.01		
1/19/2019			<0.01	
2/13/2019		<0.01		
8/29/2019	<0.01	<0.01		
10/16/2019	0.0005 (J)	<0.01		
10/18/2019			<0.01	
3/4/2020	0.00071 (J)	<0.01		
8/20/2020	0.00065 (J)	<0.01	<0.01	
9/17/2020	0.00098 (J)	<0.01	0.00098 (J)	
3/4/2021	0.001 (J)	<0.01	0.0008 (J)	
9/27/2021	<0.01		<0.01	0.0077
9/28/2021		<0.01		
2/2/2022		<0.01	<0.01	<0.01
2/3/2022	<0.01			
8/24/2022	<0.01		<0.01	<0.01
8/25/2022		<0.01		
1/25/2023	<0.01	<0.01		
1/26/2023			<0.01	<0.01
8/31/2023				<0.01
9/6/2023		<0.01		
9/8/2023	<0.01		<0.01	
Mean	0.006881	0.009563	0.008178	0.00954
Std. Dev.	0.004281	0.001904	0.003841	0.001029
Upper Lim.	0.01	0.01	0.01	0.01
Lower Lim.	0.00098	0.0017	0.00098	0.0077

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 1/31/2024 1:49 PM View: Pond BCD Appendix IV - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47
9/6/2016				0.0006 (J)			
9/8/2016	0.0073 (J)	0.0149	0.0122		0.0025 (J)		
11/17/2016	0.0086 (J)						
11/18/2016		0.0131					
11/21/2016			0.0122	<0.04	0.001 (J)		
2/21/2017	0.0079 (J)	0.0099 (J)					
2/22/2017			0.0136	0.0016 (J)	<0.001		
6/13/2017	0.0083 (J)	0.0094 (J)					
6/14/2017			0.0113	0.0015 (J)	<0.001		
9/27/2017	0.0087 (J)	0.0095 (J)	0.0094 (J)	0.0007 (J)	<0.001		
2/14/2018	<0.01	0.0112	<0.01	<0.04	<0.001		
3/6/2018						0.0162	<0.001
5/1/2018						0.015	0.0125 (D)
6/26/2018	0.006 (J)						
6/27/2018		0.0093 (J)	0.0069 (J)		<0.001		0.0076 (J)
6/28/2018				0.00078 (J)		0.01	
7/31/2018						0.0098 (J)	
8/1/2018							0.004 (J)
8/23/2018						0.0093 (J)	0.0016 (J)
9/19/2018						0.0084 (J)	0.0018 (J)
10/29/2018						0.0064 (J)	0.0014 (J)
11/28/2018						0.0071 (J)	0.0016 (J)
12/18/2018	0.0055 (J)		0.0067 (J)	0.0011 (J)			
12/19/2018					<0.001		0.0014 (J)
12/20/2018		0.0081 (J)				0.069	
8/27/2019	0.0042 (J)			0.0014 (J)	<0.001		
8/28/2019		0.01	0.0061			0.011	0.00037 (J)
10/15/2019	0.0043 (J)						
10/16/2019			0.0058				0.00032 (J)
10/17/2019		0.011 (J)		<0.04	<0.001	0.0098 (J)	
12/3/2019						0.0076	
12/4/2019		0.0086		0.0012 (J)	<0.001		
3/4/2020	0.0039 (J)	0.008	0.007				0.0011 (J)
3/5/2020				0.0011 (J)	<0.001	0.0091	
8/19/2020	0.0039 (J)	0.0078	0.0065	0.0008 (J)	<0.001		
8/20/2020						0.022	0.00043 (J)
9/15/2020	0.0035 (J)		0.0064				
9/16/2020		0.008		0.0008 (J)	<0.001	0.0049 (J)	0.00053 (J)
3/2/2021	0.003 (J)					0.0057	0.0005 (J)
3/3/2021		0.0062	0.0095	0.0015 (J)			
3/4/2021					<0.001		
9/23/2021						0.0049 (J)	<0.001
9/28/2021	0.0029 (J)	0.0047 (J)	0.0069	0.001 (J)	<0.001		
2/2/2022	0.0027 (J)			0.0012 (J)	<0.001	0.0054	<0.001
2/3/2022			0.0077				
2/4/2022		0.0076					
8/23/2022	0.00342						<0.001
8/24/2022			0.0066	0.00163			
8/25/2022		0.0079			<0.001	0.00357	
1/24/2023					<0.001		
1/25/2023		0.00711				0.00258	
1/26/2023	0.0032		0.00823	0.00158			0.000376 (J)

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 1/31/2024 1:49 PM View: Pond BCD Appendix IV - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47
8/31/2023				0.00183	<0.001		
9/6/2023	0.00343	0.00601	0.00724			0.00221	<0.001
Mean	0.005039	0.008916	0.008172	0.007016	0.001075	0.01143	0.002026
Std. Dev.	0.00211	0.002396	0.002486	0.01422	0.0003354	0.01401	0.002969
Upper Lim.	0.005891	0.01028	0.009386	0.00163	0.0025	0.01235	0.001516
Lower Lim.	0.003686	0.007556	0.006679	0.0008	0.001	0.005405	0.0004522

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 1/31/2024 1:49 PM View: Pond BCD Appendix IV - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-50	BRGWC-52I	PZ-51D	PZ-51I	PZ-58I	PZ-60I	PZ-61I
3/15/2018	1.3						
5/1/2018	1.4						
6/28/2018	1.3						
8/1/2018	1.4						
8/3/2018				0.041			
8/10/2018		0.0043 (J)					
8/23/2018		0.0026 (J)					
9/19/2018		0.0028 (J)					
10/29/2018	1.4	0.0015 (J)					
11/28/2018	1.4	0.0012 (J)					
12/19/2018	1.5						
12/20/2018		<0.001					
1/16/2019	1.4						
1/17/2019		<0.001					
1/19/2019				0.018			
2/13/2019		<0.001					
8/29/2019	1.3	0.00063 (J)					
10/16/2019	1.4	<0.001					
10/18/2019				0.017			
3/4/2020	1.5	<0.001					
8/20/2020	1.4	<0.001		0.02			
9/17/2020	1.4	0.00046 (J)		0.022			
10/27/2020			0.00041 (J)	0.02			
3/3/2021			0.0004 (J)				
3/4/2021	1.4	<0.001		0.019			
9/27/2021	1.3			0.02			0.45
9/28/2021		<0.001	<0.001		0.39	3.5	
2/2/2022		<0.001		0.023			0.51
2/3/2022	1.5		<0.001		0.43	3.4	
8/24/2022	1.42		0.000306 (J)	0.0239	0.503	3.57	0.562
8/25/2022		<0.001					
1/25/2023	1.35	<0.001					
1/26/2023			<0.001	0.0231	0.518	3.64	0.604
8/31/2023							0.757
9/6/2023		0.000317 (J)	0.000427 (J)				
9/8/2023	1.38			0.0259	0.556	3.79	
Mean	1.392	0.001306	0.000649	0.02274	0.4794	3.58	0.5766
Std. Dev.	0.0633	0.0009458	0.0003306	0.006306	0.06773	0.1471	0.1162
Upper Lim.	1.42	0.0015	0.001	0.0259	0.5929	3.827	0.7712
Lower Lim.	1.35	0.00063	0.000306	0.018	0.3659	3.333	0.382

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 1/31/2024 1:49 PM View: Pond BCD Appendix IV - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

	PZ-63I
2/4/2022	0.019
8/25/2022	0.0232
1/30/2023	0.028
9/8/2023	0.0309
Mean	0.02528
Std. Dev.	0.005252
Upper Lim.	0.0372
Lower Lim.	0.01335

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 1/31/2024 1:49 PM View: Pond BCD Appendix IV - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47
9/6/2016				1.01 (U)			
9/8/2016	0.862 (U)	1.74	1.13		0.706 (U)		
11/17/2016	1.2 (U)						
11/18/2016		0.571 (U)					
11/21/2016			1.59	0.201 (U)	0.0569 (U)		
2/21/2017	1.31	1.28 (U)					
2/22/2017			1.64	0.57 (U)	1.07 (U)		
6/13/2017	0.738 (U)	0.521 (U)					
6/14/2017			1.32	0.726 (U)	0.459 (U)		
9/27/2017	0.583 (U)	0.595 (U)	1.7	0.884 (U)	0.807 (U)		
2/14/2018	1.41 (J+X)	1.18 (U)	1.89 (J+X)	1.14 (U)	1.67 (J+X)		
3/6/2018						1.25 (U)	1.75 (J+X)
5/1/2018						0.423 (U)	2.02 (J+XD)
6/26/2018	0.968 (U)						
6/27/2018		1.3 (U)	1.66 (J+X)		1.34 (UX)		0.878 (U)
6/28/2018				1.4 (UX)		0.283 (U)	
7/31/2018						0.243 (U)	
8/1/2018							0.638 (U)
8/23/2018						1.1 (U)	1.14 (U)
9/19/2018						0.369 (U)	1.45 (UX)
10/29/2018						0.401 (U)	1.09 (U)
11/28/2018						0.901 (U)	1.67 (UX)
12/18/2018	1.13 (U)		0.759 (U)	0.661 (U)			
12/19/2018					1.21 (U)		1.3
12/20/2018		0.527 (U)				0.657 (U)	
8/27/2019	0.91 (U)			1.35	0.86 (U)		
8/28/2019		0.643 (U)	1.76			0.528 (U)	0.804 (U)
10/15/2019	1.06 (U)						
10/16/2019			1.69 (U)				1.28 (U)
10/17/2019		1.07 (U)		1.25 (U)	1.2 (U)	0.977 (U)	
3/4/2020	1.34	1.18	1.23				0.862 (U)
3/5/2020				1.35	0.483 (U)	0.921 (U)	
8/19/2020	0.467 (U)	0.684 (U)	0.876 (U)	1 (U)	0.482 (U)		
8/20/2020						0.501 (U)	1.64
9/15/2020	0.205 (U)		1.23 (U)				
9/16/2020		0.175 (U)		0.43 (U)	0.195 (U)	0.254 (U)	0.51 (U)
3/2/2021	0.161 (U)					0.107 (U)	0.571 (U)
3/3/2021		0.829 (U)	1.31 (U)	0.415 (U)			
3/4/2021					0.32 (U)		
9/23/2021						0.619 (U)	0.527 (U)
9/28/2021	4.44	3.58	1.49	0.749 (U)	0.947 (U)		
2/2/2022	0.64 (U)			1.21 (U)	0.0265 (U)	0.219 (U)	0.145 (U)
2/3/2022			0.798 (U)				
2/4/2022		0.335 (U)					
8/23/2022	1.9						3.74
8/24/2022			1.97	3.26			
8/25/2022		1.79			1.32	1.65	
1/24/2023					2.25		
1/25/2023		1.53 (U)				1.29 (U)	
1/26/2023	3.24		2.27 (U)	2.73 (U)			3.28
9/22/2023				2.71	2.33		
9/26/2023	1.21 (U)	2.23	3.02			0.607 (U)	2.39

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 1/31/2024 1:49 PM View: Pond BCD Appendix IV - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47
Mean	1.251	1.145	1.544	1.213	0.9333	0.665	1.384
Std. Dev.	1.026	0.8041	0.5385	0.8317	0.6635	0.4218	0.9213
Upper Lim.	1.649	1.488	1.859	1.571	1.322	0.9045	1.907
Lower Lim.	0.6555	0.6539	1.229	0.7037	0.5448	0.4255	0.8611

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 1/31/2024 1:49 PM View: Pond BCD Appendix IV - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-50	BRGWC-52I	PZ-44	PZ-50D	PZ-51D	PZ-51I	PZ-58I
3/6/2018			0.577 (U)				
3/15/2018	1.31						
5/1/2018	1.69 (J+X)		0.27 (U)				
6/28/2018	1.04 (U)						
8/1/2018	1.67						
8/10/2018		1.91					
8/23/2018		1.86 (J+X)					
9/19/2018		1.64 (UX)					
10/29/2018	0.992 (U)	1.36 (U)					
11/28/2018	1.76 (UX)	1.07 (U)					
12/19/2018	2.15 (J+X)						
12/20/2018		0.892 (U)					
1/16/2019	1.39						
1/17/2019		1.1 (U)					
1/19/2019						1.86	
2/13/2019		1.68					
8/29/2019	1.33	1.44					
10/16/2019	2.51	2.13					
10/18/2019						11.7 (U)	
3/4/2020	1.73	2.3					
8/20/2020	2.78	2.97				0.937 (U)	
9/17/2020	0.717 (U)	2.04				1.76	
3/3/2021					2.54		
3/4/2021	1.22	2.04				0.966 (U)	
3/5/2021				2.11			
9/27/2021	2.07					0.771 (U)	
9/28/2021		3.28	0.526 (U)	1.05	1.89		1.66
2/2/2022		2.33	0.244 (U)			0.992 (U)	
2/3/2022	1.15			1	2.23		1.33
8/24/2022	1.87				3.33	0.625	1.16
8/25/2022		4.97	1.6	2.26			
1/25/2023	5.71	7.94	2.49 (U)				
1/26/2023					3.7	1.53 (U)	4.03
1/27/2023				2.66 (U)			
9/22/2023	1.55		0.477 (U)	2.12		5.22	3.71
9/26/2023		6.36			1.27		
Mean	1.823	2.595	0.8834	1.867	2.493	2.636	2.378
Std. Dev.	1.076	1.872	0.8433	0.682	0.9042	3.453	1.378
Upper Lim.	2.126	3.045	1.804	2.804	3.735	3.695	4.688
Lower Lim.	1.254	1.537	0.1445	0.9298	1.251	0.719	0.06812

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 1/31/2024 1:49 PM View: Pond BCD Appendix IV - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

	PZ-60I	PZ-61I
9/27/2021		1.14 (U)
9/28/2021	2.79	
2/2/2022		1.16
2/3/2022	2.46	
8/24/2022	3.5	2.91
1/26/2023	5.31	3.2
9/22/2023	4.48	0.868 (U)
Mean	3.708	1.856
Std. Dev.	1.184	1.106
Upper Lim.	5.692	3.942
Lower Lim.	1.724	0.4133

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 1/31/2024 1:49 PM View: Pond BCD Appendix IV - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47
9/6/2016				0.43			
9/8/2016	0.14 (J)	0.31	0.2 (J)		0.15 (J)		
11/17/2016	0.27 (J)						
11/18/2016		0.19 (J)					
11/21/2016			0.37	0.24 (J)	0.04 (J)		
2/21/2017	0.6	0.35					
2/22/2017			0.37	0.2 (J)	0.08 (J)		
6/13/2017	0.19 (J)	0.19 (J)					
6/14/2017			0.38	0.15 (J)	0.09 (J)		
9/27/2017	0.5	0.4	0.4	0.41	<0.1		
2/14/2018	<0.3	<0.3	<0.3	<0.3	<0.1		
3/6/2018						0.94	1.1
5/1/2018						<0.1	0.595 (D)
6/26/2018	0.15 (J)						
6/27/2018		0.26 (J)	0.085 (J)		<0.1		0.27 (J)
6/28/2018				0.93 (J+X)		0.69 (J+X)	
7/31/2018						<0.1	
8/1/2018							0.48
8/23/2018						<0.1	0.34
9/19/2018						<0.1	0.23 (J)
10/29/2018						<0.1	<0.1
11/28/2018						<0.1	0.063 (J)
12/18/2018	0.29 (J)		0.26 (J)	0.54			
12/19/2018					0.23 (J)		0.28 (J)
12/20/2018		0.26 (J)				0.12 (J)	
3/19/2019		0.2 (J)					<0.1
3/20/2019	0.17 (JD)		0.091 (J)	0.31	<0.1	0.066 (J)	
8/27/2019	0.15 (J)			0.12 (J)	<0.1		
8/28/2019		0.074 (J)	0.055 (J)			<0.1	<0.1
10/15/2019	0.16 (J)						
10/16/2019			0.11 (J)				0.076 (J)
12/3/2019						0.19 (J)	
12/4/2019		0.18 (J)		0.26 (J)	0.11 (J)		
3/4/2020	0.07 (J)	<0.3	<0.3				<0.1
3/5/2020				0.051 (J)	<0.1	<0.1	
8/19/2020	0.17	0.19	0.12	0.14	<0.1		
8/20/2020						<0.1	<0.1
9/15/2020	0.15		0.057 (J)				
9/16/2020		0.15		0.13	<0.1	0.052 (J)	<0.1
3/2/2021	0.15					0.067 (J)	<0.1
3/3/2021		0.24	0.13	0.13			
3/4/2021					<0.1		
9/23/2021						0.06 (J)	<0.1
9/28/2021	0.15	0.16	0.081 (J)	0.11	<0.1		
2/2/2022	0.15			0.1	<0.1	<0.1	<0.1
2/3/2022			0.11				
2/4/2022		0.14					
8/23/2022	0.186						<0.1
8/24/2022			0.103	0.318			
8/25/2022		0.234			0.138	0.166	
1/24/2023					0.082 (J)		
1/25/2023		0.152				0.163	

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 1/31/2024 1:49 PM View: Pond BCD Appendix IV - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47
1/26/2023	0.202		0.0935 (J)	0.167			0.117
8/23/2023				0.116	0.0477 (J)		
8/25/2023	0.25	0.302	0.0849 (J)			0.185	0.243
Mean	0.2124	0.2141	0.17	0.2501	0.1034	0.1761	0.2283
Std. Dev.	0.1265	0.08032	0.1177	0.2052	0.0383	0.2193	0.2452
Upper Lim.	0.25	0.2597	0.2114	0.3243	0.11	0.166	0.28
Lower Lim.	0.15	0.1685	0.09945	0.1374	0.09	0.067	0.1

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 1/31/2024 1:49 PM View: Pond BCD Appendix IV - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-50	BRGWC-52I	PZ-44	PZ-50D	PZ-51D	PZ-51I	PZ-58I
3/6/2018			<0.3				
3/15/2018	0.84 (JX)						
5/1/2018	0.91		<0.3				
6/28/2018	1.1 (J+X)						
8/1/2018	2						
8/10/2018		1.6 (O)					
8/23/2018		0.32					
9/19/2018		0.22 (J)					
10/29/2018	0.24 (J)	0.14 (J)					
11/28/2018	0.41	0.24 (J)					
12/19/2018	0.54						
12/20/2018		0.3					
1/16/2019	1.1						
1/17/2019		0.23 (J)					
1/19/2019						<0.1	
2/13/2019		<0.3					
3/20/2019	0.21 (J)	0.135 (JD)					
8/29/2019	0.41	0.087 (J)					
10/16/2019	0.39	0.22 (J)					
10/18/2019						<0.1	
3/4/2020	0.14 (J)	0.1 (J)					
8/20/2020	0.39	0.23				<0.1	
9/17/2020	0.46	0.074 (J)				<0.1	
10/27/2020				0.28	0.21	<0.1	
3/3/2021					0.28		
3/4/2021	0.6	0.28				0.061 (J)	
3/5/2021				0.16			
9/27/2021	0.43					<0.1	
9/28/2021		0.12	0.08 (J)	0.11	0.26		0.97
2/2/2022		0.098 (J)	0.065 (J)			<0.1	
2/3/2022	0.42			0.15	0.27		1.8
8/24/2022	0.497				0.318	0.148	1.09
8/25/2022		0.157	0.184	0.106			
1/25/2023	0.432	0.169	0.13				
1/26/2023					0.354	0.12	1.19
1/27/2023				0.151 (J)			
8/24/2023	0.499		0.195	0.193		0.0744 (J)	1.1
8/25/2023		0.188 (J)			0.395		
Mean	0.6009	0.182	0.1791	0.1643	0.2981	0.1003	1.23
Std. Dev.	0.4231	0.07363	0.09553	0.0591	0.06224	0.02209	0.3281
Upper Lim.	0.7652	0.2251	0.1933	0.2345	0.3721	0.12	1.788
Lower Lim.	0.3657	0.1389	0.06826	0.09408	0.2242	0.0744	0.8055

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 1/31/2024 1:49 PM View: Pond BCD Appendix IV - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	PZ-60I	PZ-61I	PZ-63I
9/27/2021		0.067 (J)	
9/28/2021	1.6		
2/2/2022		<0.1	
2/3/2022	2.3		
2/4/2022			0.14
8/24/2022	1.32	0.103	
8/25/2022			0.235
1/26/2023	1.66	0.184	
1/30/2023			0.23
8/23/2023		0.188	
8/24/2023	1.32		0.252
Mean	1.64	0.1284	0.2143
Std. Dev.	0.4007	0.05446	0.05039
Upper Lim.	2.312	0.2124	0.3286
Lower Lim.	0.9685	0.03122	0.09985

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 1/31/2024 1:49 PM View: Pond BCD Appendix IV - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-45	BRGWC-47	BRGWC-50
9/6/2016				<0.002			
9/8/2016	<0.002	<0.002	0.0004 (J)				
11/17/2016	<0.002						
11/18/2016		<0.002					
11/21/2016			0.0006 (J)	<0.002			
2/21/2017	<0.002	<0.002					
2/22/2017			0.0005 (J)	<0.002			
6/13/2017	<0.002	<0.002					
6/14/2017			0.0004 (J)	<0.002			
9/27/2017	<0.002	<0.002	0.0006 (J)	<0.002			
2/14/2018	<0.002	<0.002	<0.005 (o)	<0.002			
3/6/2018					<0.002	<0.002	
3/15/2018							<0.002
5/1/2018					<0.002	<0.002 (D)	<0.002
6/26/2018	<0.002						
6/27/2018		<0.002	0.00032 (J)			<0.002	
6/28/2018				<0.002	<0.002		0.00054 (J)
7/31/2018					<0.002		
8/1/2018						<0.002	<0.002
8/23/2018					<0.002	<0.002	
9/19/2018					<0.002	<0.002	
10/29/2018					<0.002	<0.002	0.0003 (J)
11/28/2018					<0.002	<0.002	<0.002
12/18/2018	<0.002		0.00038 (J)	<0.002			
12/19/2018						<0.002	<0.002
12/20/2018		<0.002			<0.002		
1/16/2019							<0.002
8/27/2019	0.00011 (J)			<0.002			
8/28/2019		<0.002	0.00027 (J)		<0.002	<0.002	
8/29/2019							4.9E-05 (J)
10/15/2019	<0.002						
10/16/2019			0.00027 (J)			<0.002	8.5E-05 (J)
12/3/2019					<0.002		
12/4/2019		6.3E-05 (J)		<0.002			
3/4/2020	<0.002	<0.002	0.0003 (J)			0.00012 (J)	0.0001 (J)
3/5/2020				<0.002	0.00026 (J)		
8/19/2020	<0.002	<0.002	0.00025 (J)	<0.002			
8/20/2020					0.00021 (J)	4.8E-05 (J)	6.7E-05 (J)
9/15/2020	<0.002		0.00029 (J)				
9/16/2020		<0.002		0.00011 (J)	5.3E-05 (J)	6.6E-05 (J)	
9/17/2020							0.00015 (J)
3/2/2021	<0.002				<0.002	<0.002	
3/3/2021		<0.002	0.00033 (J)	<0.002			
3/4/2021							0.00016 (J)
9/23/2021					<0.002	<0.002	
9/27/2021							<0.002
9/28/2021	<0.002	<0.002	<0.002	<0.002			
2/2/2022	<0.002			<0.002	<0.002	<0.002	
2/3/2022			<0.002				<0.002
2/4/2022		<0.002					
8/23/2022	<0.002					<0.002	
8/24/2022			<0.002	<0.002			<0.002

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 1/31/2024 1:49 PM View: Pond BCD Appendix IV - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-45	BRGWC-47	BRGWC-50
8/25/2022		<0.002			<0.002		
1/25/2023		<0.002			0.000595 (J)		<0.002
1/26/2023	<0.002		<0.002	<0.002		<0.002	
8/31/2023				<0.002			
9/6/2023	<0.002	<0.002	<0.002		<0.002	<0.002	
9/8/2023							<0.002
Mean	0.001901	0.001898	0.0008283	0.001901	0.001656	0.001712	0.001234
Std. Dev.	0.0004336	0.0004444	0.0007545	0.0004336	0.0007119	0.0007042	0.0009282
Upper Lim.	0.002	0.002	0.002	0.002	0.002	0.002	0.002
Lower Lim.	0.00011	6.3E-05	0.00029	0.00011	0.000595	0.00012	0.0001

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 1/31/2024 1:49 PM View: Pond BCD Appendix IV - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-52I	PZ-50D	PZ-51D	PZ-51I	PZ-58I	PZ-61I
8/10/2018	<0.002					
8/23/2018	<0.002					
9/19/2018	<0.002					
10/29/2018	<0.002					
11/28/2018	<0.002					
12/20/2018	<0.002					
1/17/2019	<0.002					
1/19/2019				<0.002		
2/13/2019	<0.002					
8/29/2019	<0.002					
10/16/2019	<0.002					
10/18/2019				<0.002		
3/4/2020	<0.002					
8/20/2020	<0.002			<0.002		
9/17/2020	<0.002			0.00036 (J)		
3/3/2021			0.00013 (J)			
3/4/2021	4.2E-05 (J)			0.00017 (J)		
3/5/2021		5.6E-05 (J)				
9/27/2021				<0.002		0.0019
9/28/2021	<0.002	<0.002	<0.002		<0.005	
2/2/2022	<0.002			<0.002		<0.002
2/3/2022		<0.002	<0.002		<0.005	
8/24/2022			<0.002	<0.002	0.000894 (J)	0.00113 (J)
8/25/2022	<0.002	<0.002				
1/25/2023	<0.002					
1/26/2023			<0.002	<0.002	0.000895 (J)	<0.002
1/27/2023		<0.002				
8/31/2023						<0.002
9/6/2023	<0.002		<0.002			
9/8/2023		<0.002		<0.002	0.00086 (J)	
Mean	0.001897	0.001676	0.001688	0.001653	0.00253	0.001806
Std. Dev.	0.0004492	0.0007936	0.0007634	0.0007329	0.002255	0.0003804
Upper Lim.	0.002	0.002	0.002	0.002	0.005	0.002
Lower Lim.	4.2E-05	5.6E-05	0.00013	0.00036	0.00086	0.00113

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 1/31/2024 1:49 PM View: Pond BCD Appendix IV - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
9/6/2016			0.0117 (J)				
9/8/2016	0.0021 (J)	0.004 (J)		<0.05			
11/18/2016	<0.01						
11/21/2016		0.0039 (J)	0.0108 (J)	<0.05			
2/21/2017	<0.01						
2/22/2017		0.0043 (J)	0.0103 (J)	0.0023 (J)			
6/13/2017	0.0017 (J)						
6/14/2017		0.0036 (J)	0.0101 (J)	0.0022 (J)			
9/27/2017	0.0016 (J)	0.0038 (J)	0.0116 (J)	0.0021 (J)			
2/14/2018	0.0018 (J)	0.0034 (J)	0.0115 (J)	0.0023 (J)			
3/6/2018					0.0031 (J)	0.0399 (J)	
3/15/2018							0.038 (J)
5/1/2018					0.0038 (J)	0.0475 (JD)	0.042 (J)
6/27/2018	0.0016 (J)	0.0034 (J)		0.0023 (J)		0.044 (J)	
6/28/2018			0.013 (J)		0.0028 (J)		0.04 (J)
7/31/2018					<0.25 (o)		
8/1/2018						0.039 (J)	0.036 (J)
8/23/2018					0.0033 (J)	0.044 (J)	
9/19/2018					0.0033 (J)	0.043 (J)	
10/29/2018					0.003 (J)	0.039 (J)	0.041 (J)
11/28/2018					0.0035 (J)	0.044 (J)	0.041 (J)
12/18/2018		0.0032 (J)	0.014 (J)				
12/19/2018				0.0018 (J)		0.043 (J)	0.043 (J)
12/20/2018	0.0015 (J)				0.003 (J)		
1/16/2019							0.042 (J)
8/27/2019			0.016 (J)	0.0022 (J)			
8/28/2019	0.0016 (J)	0.0033 (J)			0.0034 (J)	0.044	
8/29/2019							0.039
10/16/2019		0.0029 (J)				0.038	0.034
12/3/2019					0.0033 (J)		
12/4/2019	0.0014 (J)		0.013 (J)	0.0022 (J)			
3/4/2020	0.0014 (J)	0.0029 (J)				0.042	0.042
3/5/2020			0.016 (J)	0.0022 (J)	0.003 (J)		
8/19/2020	0.0014 (J)	0.0029 (J)	0.018 (J)	0.002 (J)			
8/20/2020					0.0034 (J)	0.044	0.04
9/15/2020		0.003 (J)					
9/16/2020	0.0014 (J)		0.016 (J)	0.0022 (J)	0.0036 (J)	0.039	
9/17/2020							0.052
3/2/2021					0.0043 (J)	0.044	
3/3/2021	0.0012 (J)	0.0032 (J)	0.014 (J)				
3/4/2021				0.002 (J)			0.05
9/23/2021					0.0023 (J)	0.042	
9/27/2021							0.038
9/28/2021	0.0011 (J)	0.0029 (J)	0.023 (J)	0.0021 (J)			
2/2/2022			0.021 (J)	0.0035 (J)	0.0022 (J)	0.04	
2/3/2022		0.0026 (J)					0.038
2/4/2022	0.001 (J)						
8/23/2022						0.0474	
8/24/2022		0.00304 (J)	0.0238				0.0428
8/25/2022	<0.01			0.0043 (J)	<0.01		
1/24/2023				0.007 (J)			
1/25/2023	<0.01				0.00333 (J)		0.0542

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 1/31/2024 1:49 PM View: Pond BCD Appendix IV - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
1/26/2023		0.00331 (J)	0.0279			0.0506	
8/31/2023			0.0253	0.00392 (J)			
9/6/2023	<0.01	0.00349 (J)			<0.01	0.0532	
9/8/2023							0.0393
Mean	0.003726	0.003323	0.01616	0.005085	0.003402	0.04338	0.0417
Std. Dev.	0.00386	0.0004437	0.005502	0.007125	0.0007362	0.003961	0.005202
Upper Lim.	0.01	0.003583	0.01896	0.0043	0.003833	0.04563	0.04439
Lower Lim.	0.0014	0.003063	0.01284	0.0021	0.002971	0.04113	0.03864

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 1/31/2024 1:49 PM View: Pond BCD Appendix IV - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-52I	PZ-44	PZ-50D	PZ-51D	PZ-51I	PZ-58I	PZ-61I
3/6/2018		0.0046 (J)					
5/1/2018		0.0049 (J)					
8/10/2018	0.0087 (J)						
8/23/2018	0.0089 (J)						
9/19/2018	0.005 (J)						
10/29/2018	0.0048 (J)						
11/28/2018	0.0052 (J)						
12/20/2018	0.0042 (J)						
1/17/2019	0.0039 (J)						
1/19/2019					0.019 (J)		
2/13/2019	<0.05						
8/29/2019	0.0052 (J)						
10/16/2019	0.0023 (J)						
10/18/2019					0.019 (J)		
3/4/2020	0.002 (J)						
8/20/2020	0.0022 (J)				0.019 (J)		
9/17/2020	0.0058 (J)				0.021 (J)		
3/3/2021				0.0093 (J)			
3/4/2021	0.003 (J)				0.026 (J)		
3/5/2021			0.019 (J)				
9/27/2021					0.02 (J)		0.0095 (J)
9/28/2021	0.0035 (J)	0.0048 (J)	0.02 (J)	0.0096 (J)		0.041	
2/2/2022	0.0041 (J)	0.0058 (J)			0.021 (J)		0.011 (J)
2/3/2022			0.024 (J)	0.0096 (J)		0.041	
8/24/2022				0.0042 (J)	0.0222	0.0488	0.00913 (J)
8/25/2022	0.0162	0.00652 (J)	0.0255				
1/25/2023	0.0186	0.00728 (J)					
1/26/2023				0.00883 (J)	0.0247	0.0553	0.0123
1/27/2023			0.0274				
8/31/2023							0.0106
9/6/2023	0.0131			0.00667 (J)			
9/8/2023		0.0056 (J)	0.0232		0.0221	0.0468	
Mean	0.007458	0.005643	0.02318	0.008033	0.0214	0.04658	0.01051
Std. Dev.	0.006342	0.0009854	0.003208	0.002177	0.002421	0.005985	0.001263
Upper Lim.	0.008695	0.006813	0.02759	0.01024	0.02356	0.05661	0.01262
Lower Lim.	0.003692	0.004472	0.01878	0.005163	0.01924	0.03655	0.00839

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 1/31/2024 1:49 PM View: Pond BCD Appendix IV - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

	PZ-63I
2/4/2022	0.007 (J)
8/25/2022	0.00509 (J)
1/30/2023	0.0066 (J)
9/8/2023	0.00516 (J)
Mean	0.005963
Std. Dev.	0.0009812
Upper Lim.	0.00819
Lower Lim.	0.003735

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 1/31/2024 1:49 PM View: Pond BCD Appendix IV - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	PZ-51I
9/6/2016				<0.0002		
9/8/2016	<0.0002	<0.0002	<0.0002		<0.0002	
11/17/2016	<0.0002					
11/18/2016		<0.0002				
11/21/2016			<0.0002	<0.0002	<0.0002	
2/21/2017	<0.0002	<0.0002				
2/22/2017			<0.0002	<0.0002	<0.0002	
6/13/2017	<0.0002	5E-05 (J)				
6/14/2017			7E-05 (J)	7E-05 (J)	9E-05 (J)	
9/27/2017	4E-05 (J)	4.7E-05 (J)	4E-05 (J)	4E-05 (J)	0.0001 (J)	
2/14/2018	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
6/26/2018	<0.0002					
6/27/2018		<0.0002	<0.0002		<0.0002	
6/28/2018				<0.0002		
12/18/2018	<0.0002		<0.0002	<0.0002		
12/19/2018					<0.0002	
12/20/2018		<0.0002				
1/19/2019						<0.0002
8/27/2019	<0.0002			<0.0002	<0.0002	
8/28/2019		<0.0002	<0.0002			
10/18/2019						<0.0002
8/19/2020	8.3E-05 (J)	<0.0002	9.8E-05 (J)	8.2E-05 (J)	8.2E-05 (J)	
8/20/2020						9.9E-05 (J)
9/15/2020	<0.0002		<0.0002			
9/16/2020		<0.0002		<0.0002	<0.0002	
9/17/2020						<0.0002
3/2/2021	<0.0002					
3/3/2021		<0.0002	<0.0002	<0.0002		
3/4/2021					<0.0002	<0.0002
9/27/2021						<0.0002
9/28/2021	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
2/2/2022	<0.0002			<0.0002	<0.0002	<0.0002
2/3/2022			<0.0002			
2/4/2022		<0.0002				
8/23/2022	<0.0002					
8/24/2022			<0.0002	<0.0002		<0.0002
8/25/2022		<0.0002			<0.0002	
1/24/2023					<0.0002	
1/25/2023		<0.0002				
1/26/2023	<0.0002		<0.0002	<0.0002		<0.0002
8/25/2023				<0.0002	<0.0002	
8/29/2023	<0.0002	<0.0002	<0.0002			<0.0002
Mean	0.0001837	0.0001822	0.0001769	0.000176	0.0001807	0.0001899
Std. Dev.	4.662E-05	5.032E-05	5.236E-05	5.399E-05	4.308E-05	3.194E-05
Upper Lim.	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
Lower Lim.	8.3E-05	5E-05	9.8E-05	8.2E-05	0.0001	0.0002

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 1/31/2024 1:49 PM View: Pond BCD Appendix IV - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-25I	BRGWC-30I	BRGWC-45	BRGWC-47	BRGWC-50	BRGWC-52I	PZ-50D
9/6/2016		<0.01					
9/8/2016	<0.01						
11/17/2016	<0.01						
11/21/2016		<0.01					
2/21/2017	<0.01						
2/22/2017		<0.01					
6/13/2017	<0.01						
6/14/2017		<0.01					
9/27/2017	<0.01	<0.01					
2/14/2018	<0.01	<0.01					
3/6/2018			<0.01	<0.01			
3/15/2018					<0.001		
5/1/2018			<0.01	<0.01 (D)	0.0022 (J)		
6/26/2018	<0.01						
6/27/2018				<0.01			
6/28/2018		<0.01	<0.01		<0.001		
7/31/2018			<0.01				
8/1/2018				<0.01	0.0033 (J)		
8/10/2018						0.0032 (J)	
8/23/2018			<0.01	<0.01		0.005 (J)	
9/19/2018			<0.01	<0.01		0.0061 (J)	
10/29/2018			<0.01	<0.01	<0.001	0.0065 (J)	
11/28/2018			<0.01	<0.01	<0.001	0.0027 (J)	
12/18/2018	<0.01	<0.01					
12/19/2018				<0.01	<0.001		
12/20/2018			<0.01			<0.01	
1/16/2019					<0.001		
1/17/2019						<0.01	
2/13/2019						<0.01	
8/27/2019	<0.01	<0.01					
8/28/2019			<0.01	<0.01			
8/29/2019					<0.001	<0.01	
10/15/2019	<0.01						
10/16/2019				<0.01	<0.001	<0.01	
12/3/2019			<0.01				
12/4/2019		<0.01					
8/19/2020	0.00081 (J)	0.00078 (J)					
8/20/2020			0.00076 (J)	<0.01	<0.001	0.0012 (J)	
9/15/2020	0.0008 (J)						
9/16/2020		0.0022 (J)	<0.01	<0.01			
9/17/2020					<0.001	0.0007 (J)	
3/2/2021	0.001 (J)		<0.01	<0.01			
3/3/2021		<0.01					
3/4/2021					<0.001	0.001 (J)	
3/5/2021							0.0017 (J)
9/23/2021			<0.01	<0.01			
9/27/2021					<0.001		
9/28/2021	0.00089 (J)	0.001 (J)				<0.01	0.0021 (J)
2/2/2022	0.0011 (J)	0.0012 (J)	<0.01	<0.01		<0.01	
2/3/2022					<0.001		0.0012 (J)
8/23/2022	0.00105			0.000296 (J)			
8/24/2022		0.00141			<0.001		

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 1/31/2024 1:49 PM View: Pond BCD Appendix IV - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-25I	BRGWC-30I	BRGWC-45	BRGWC-47	BRGWC-50	BRGWC-52I	PZ-50D
8/25/2022			0.000424 (J)			0.000471 (J)	0.00109
1/25/2023			0.000545 (J)		<0.001	0.000609 (J)	
1/26/2023	0.00092 (J)	0.0014		0.00027 (J)			
1/27/2023							0.000817 (J)
8/31/2023		0.00111					
9/6/2023	0.00141		0.000356 (J)	0.000296 (J)		0.000782 (J)	
9/8/2023					<0.001		<0.001
Mean	0.005999	0.006617	0.008004	0.008466	0.001194	0.005459	0.001318
Std. Dev.	0.004605	0.004373	0.003971	0.003639	0.0005965	0.004128	0.0004849
Upper Lim.	0.01	0.01	0.01	0.01	0.0022	0.01	0.001932
Lower Lim.	0.00092	0.0012	0.00076	0.000296	0.001	0.000782	0.0006431

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 1/31/2024 1:49 PM View: Pond BCD Appendix IV - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

	PZ-51D	PZ-51I	PZ-63I
1/19/2019		<0.001	
10/18/2019		<0.001	
8/20/2020		<0.001	
9/17/2020		<0.001	
3/3/2021	0.0068 (J)		
3/4/2021		<0.001	
9/27/2021		<0.001	
9/28/2021	0.0029 (J)		
2/2/2022		<0.001	
2/3/2022	0.0017 (J)		
2/4/2022			0.00092 (J)
8/24/2022	0.00171	0.000313 (J)	
8/25/2022			0.000741 (J)
1/26/2023	0.00085 (J)	0.000283 (J)	
1/30/2023			0.000803 (J)
9/6/2023	0.00142		
9/8/2023		<0.001	0.000539 (J)
Mean	0.002563	0.0008596	0.0007508
Std. Dev.	0.002181	0.0002961	0.0001595
Upper Lim.	0.0054	0.001	0.001113
Lower Lim.	0.0004734	0.000313	0.0003887

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 1/31/2024 1:49 PM View: Pond BCD Appendix IV - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47
9/6/2016				<0.005			
9/8/2016	<0.005	0.0043 (J)	0.0039 (J)		<0.01		
11/17/2016	<0.005						
11/18/2016		0.0047 (J)					
11/21/2016			0.0058 (J)	<0.005	<0.01		
2/21/2017	<0.005	0.0025 (J)					
2/22/2017			0.005 (J)	<0.005	0.0017 (J)		
6/13/2017	<0.005	0.0036 (J)					
6/14/2017			0.0074 (J)	0.0045 (J)	<0.01		
9/27/2017	<0.005	0.004 (J)	0.0068 (J)	0.0034 (J)	0.0019 (J)		
2/14/2018	<0.005	<0.005	<0.005	<0.005	<0.01		
3/6/2018						<0.005	<0.005
5/1/2018						<0.005	<0.005 (D)
6/26/2018	<0.005						
6/27/2018		0.0014 (J)	<0.005		0.0017 (J)		<0.005
6/28/2018				<0.005		<0.005	
7/31/2018						<0.005	
8/1/2018							0.0015 (J)
8/23/2018						<0.005	<0.005 (X)
9/19/2018						<0.005	0.002 (J)
10/29/2018						<0.005	<0.005
11/28/2018						<0.005	<0.005
12/18/2018	<0.005		<0.005	<0.005			
12/19/2018					0.0059 (J)		<0.005
12/20/2018		<0.005				<0.005	
8/27/2019	<0.005			0.0038 (J)	0.057		
8/28/2019		0.0017 (J)	<0.005			<0.005	<0.005
10/15/2019	<0.005						
10/16/2019			<0.005				0.0017 (J)
12/3/2019						0.0029 (J)	
12/4/2019		0.0036 (J)		0.0018 (J)	0.1		
3/4/2020	<0.005	0.0022 (J)	0.0018 (J)				<0.005
3/5/2020				<0.005	0.1	<0.005	
5/12/2020					0.0989		
8/19/2020	<0.005	<0.005	<0.005	<0.005	0.099		
8/20/2020						<0.005	0.0016 (J)
9/15/2020	<0.005		<0.005				
9/16/2020		0.0042 (J)		<0.005	0.12	<0.005	0.002 (J)
3/2/2021	0.0021 (J)					<0.005	0.0028 (J)
3/3/2021		0.0031 (J)	0.0042 (J)	<0.005			
3/4/2021					0.14		
9/23/2021						<0.005	<0.005
9/28/2021	<0.005	<0.005	0.0022 (J)	<0.005	0.13		
2/2/2022	<0.005			<0.005	0.21	<0.005	<0.005
2/3/2022			<0.005				
2/4/2022		<0.005					
8/23/2022	<0.005						<0.005
8/24/2022			<0.005	<0.005			
8/25/2022		<0.005			0.218	<0.005	
1/24/2023					0.198		
1/25/2023		<0.005				<0.005	
1/26/2023	<0.005		<0.005	<0.005			<0.005

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 1/31/2024 1:49 PM View: Pond BCD Appendix IV - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47
8/31/2023				<0.005	0.21		
9/6/2023	<0.005	<0.005	<0.005			<0.005	<0.005
Mean	0.004847	0.003963	0.004847	0.004658	0.1337	0.004895	0.00408
Std. Dev.	0.0006653	0.001231	0.001272	0.0008255	0.0528	0.0004696	0.001462
Upper Lim.	0.005	0.005	0.005	0.005	0.1777	0.005	0.005
Lower Lim.	0.0021	0.0025	0.0042	0.0045	0.08972	0.0029	0.002

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 1/31/2024 1:49 PM View: Pond BCD Appendix IV - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-50	PZ-58I	PZ-60I	PZ-61I
3/15/2018	<0.005			
5/1/2018	<0.005			
6/28/2018	<0.005			
8/1/2018	0.0031 (J)			
10/29/2018	0.002 (J)			
11/28/2018	0.0017 (J)			
12/19/2018	<0.005			
1/16/2019	<0.005			
8/29/2019	<0.005			
10/16/2019	0.002 (J)			
3/4/2020	0.0026 (J)			
8/20/2020	0.0037 (J)			
9/17/2020	<0.005			
3/4/2021	0.0039 (J)			
9/27/2021	0.0022 (J)			0.0079
9/28/2021		0.0034 (J)	0.0049 (J)	
2/2/2022				0.0031 (J)
2/3/2022	<0.005	0.0016 (J)	0.0026 (J)	
8/24/2022	0.00176 (J)	0.00348 (J)	0.00417 (J)	0.0051
1/25/2023	0.00189 (J)			
1/26/2023		0.00265 (J)	0.0031 (J)	0.00321 (J)
8/31/2023				0.00483 (J)
9/8/2023	<0.005	0.00494 (J)	0.0043 (J)	
Mean	0.003676	0.003214	0.003814	0.004828
Std. Dev.	0.001412	0.001226	0.0009389	0.001944
Upper Lim.	0.005	0.005268	0.005387	0.008085
Lower Lim.	0.002	0.00116	0.002241	0.001571

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 1/31/2024 1:49 PM View: Pond BCD Appendix IV - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-29I
9/8/2016	<0.002
11/21/2016	0.0002 (J)
2/22/2017	0.0002 (J)
6/14/2017	0.0002 (J)
9/27/2017	0.0002 (J)
2/14/2018	0.00018 (J)
6/27/2018	0.00017 (J)
12/18/2018	0.00017 (J)
8/28/2019	0.00017 (J)
10/16/2019	0.00017 (J)
3/4/2020	0.00016 (J)
8/19/2020	0.00016 (J)
9/15/2020	0.00016 (J)
3/3/2021	0.00018 (J)
9/28/2021	<0.002
2/3/2022	<0.002
8/24/2022	<0.002
1/26/2023	<0.002
9/6/2023	<0.002
Mean	0.0007537
Std. Dev.	0.00087
Upper Lim.	0.002
Lower Lim.	0.00017

ND substitution: RL or RL/2 if <15% NDs.

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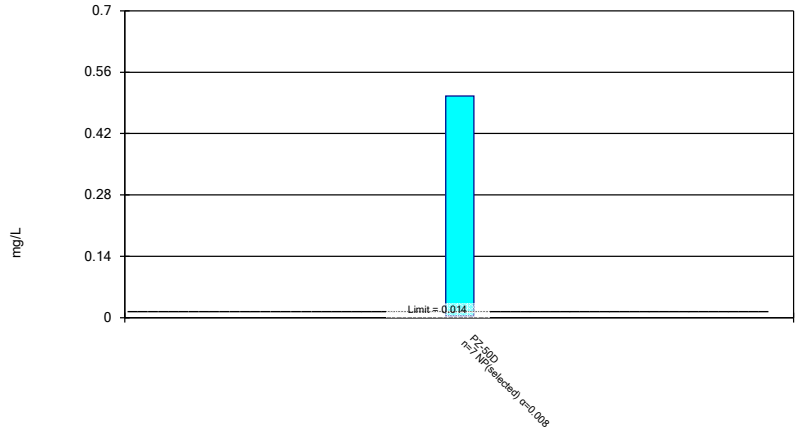
Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Normality testing disabled.

Constituent: Cobalt Analysis Run 1/31/2024 1:47 PM View: Pond BCD - Confidence Intervals (Non-Param

Plant Branch Client: Southern Company Data: Plant Branch AP

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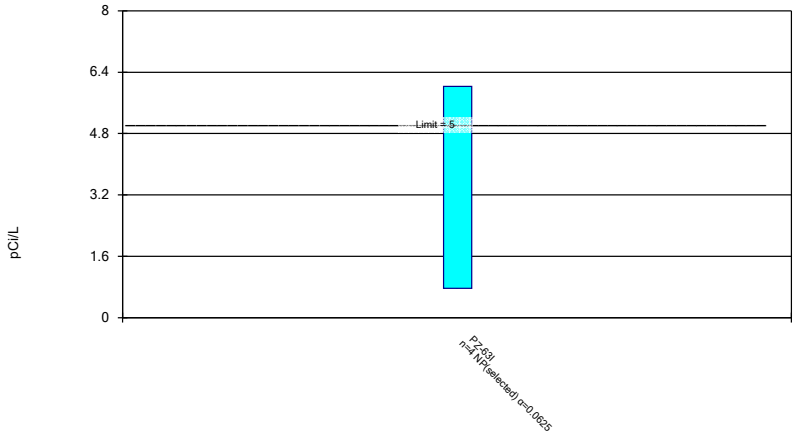
Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Normality testing disabled.

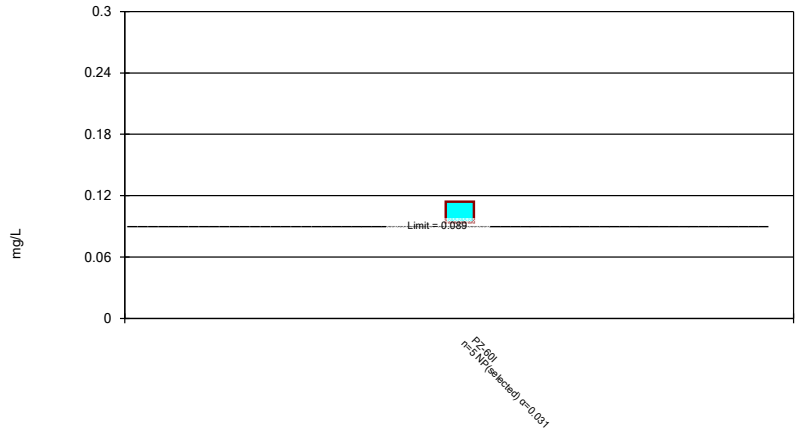
Constituent: Combined Radium 226 + 228 Analysis Run 1/31/2024 1:47 PM View: Pond BCD - Confidenc

Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.15 Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance limit is exceeded.



Normality testing disabled.

Constituent: Lithium Analysis Run 1/31/2024 1:47 PM View: Pond BCD - Confidence Intervals (Non-Para

Plant Branch Client: Southern Company Data: Plant Branch AP

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 1/31/2024 1:50 PM View: Pond BCD - Confidence Intervals (Non-Parametric)
Plant Branch Client: Southern Company Data: Plant Branch AP

	PZ-50D
10/27/2020	0.0037 (J)
3/5/2021	0.0038 (J)
9/28/2021	0.2
2/3/2022	0.1
8/25/2022	0.506
1/27/2023	0.0728
9/8/2023	0.00991
Mean	0.128
Std. Dev.	0.1811
Upper Lim.	0.506
Lower Lim.	0.0037

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 1/31/2024 1:50 PM View: Pond BCD - Confidence Intervals (Non-Parametric)
Plant Branch Client: Southern Company Data: Plant Branch AP

	PZ-63I
2/4/2022	0.768
8/25/2022	1.52
1/30/2023	6.03
9/22/2023	2.31
Mean	2.657
Std. Dev.	2.335
Upper Lim.	6.03
Lower Lim.	0.768

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 1/31/2024 1:50 PM View: Pond BCD - Confidence Intervals (Non-Parametric)
Plant Branch Client: Southern Company Data: Plant Branch AP

	PZ-60I
9/28/2021	0.1
2/3/2022	0.098
8/24/2022	0.101
1/26/2023	0.114
9/8/2023	0.0936
Mean	0.1013
Std. Dev.	0.007636
Upper Lim.	0.114
Lower Lim.	0.0936

FIGURE I.

Appendix IV Trend Tests - Significant Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 1/31/2024, 2:02 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Beryllium (mg/L)	**BRGWC-50**	**0.001312**	**131**	**58**	**Yes**	**19**	**10.53**	**n/a**	**0.05**	**NP**
Cadmium (mg/L)	**BRGWC-50**	**-0.006628**	**-98**	**-58**	**Yes**	**19**	**0**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**BRGWA-23S (bg)**	**-0.0006334**	**-99**	**-58**	**Yes**	**19**	**21.05**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**BRGWA-2S (bg)**	**-0.0003364**	**-119**	**-58**	**Yes**	**19**	**10.53**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**BRGWA-5I (bg)**	**-0.0001008**	**-66**	**-49**	**Yes**	**17**	**0**	**n/a**	**0.05**	**NP**
Selenium (mg/L)	**BRGWC-32S**	**0.03358**	**137**	**62**	**Yes**	**20**	**20**	**n/a**	**0.05**	**NP**

Appendix IV Trend Tests - All Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 1/31/2024, 2:02 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Beryllium (mg/L)	BRGWA-12I (bg)	0	0	53	No	18	100	n/a	0.05	NP
Beryllium (mg/L)	BRGWA-12S (bg)	0	0	53	No	18	100	n/a	0.05	NP
Beryllium (mg/L)	BRGWA-23S (bg)	0	0	58	No	19	100	n/a	0.05	NP
Beryllium (mg/L)	BRGWA-2I (bg)	0	0	58	No	19	100	n/a	0.05	NP
Beryllium (mg/L)	BRGWA-2S (bg)	0	0	58	No	19	100	n/a	0.05	NP
Beryllium (mg/L)	BRGWA-5I (bg)	0	0	58	No	19	100	n/a	0.05	NP
Beryllium (mg/L)	BRGWA-5S (bg)	0	0	58	No	19	100	n/a	0.05	NP
Beryllium (mg/L)	BRGWA-6S (bg)	0	0	58	No	19	100	n/a	0.05	NP
Beryllium (mg/L)	**BRGWC-50**	**0.001312**	**131**	**58**	**Yes**	**19**	**10.53**	**n/a**	**0.05**	**NP**
Beryllium (mg/L)	PZ-58I	0.007552	6	10	No	5	0	n/a	0.05	NP
Beryllium (mg/L)	PZ-60I	0.003445	2	10	No	5	0	n/a	0.05	NP
Cadmium (mg/L)	BRGWA-12I (bg)	0	0	58	No	19	100	n/a	0.05	NP
Cadmium (mg/L)	BRGWA-12S (bg)	0	0	58	No	19	100	n/a	0.05	NP
Cadmium (mg/L)	BRGWA-23S (bg)	0	9	58	No	19	89.47	n/a	0.05	NP
Cadmium (mg/L)	BRGWA-2I (bg)	0	0	58	No	19	100	n/a	0.05	NP
Cadmium (mg/L)	BRGWA-2S (bg)	0	0	58	No	19	100	n/a	0.05	NP
Cadmium (mg/L)	BRGWA-5I (bg)	0	0	58	No	19	100	n/a	0.05	NP
Cadmium (mg/L)	BRGWA-5S (bg)	0	0	58	No	19	100	n/a	0.05	NP
Cadmium (mg/L)	BRGWA-6S (bg)	0	0	58	No	19	100	n/a	0.05	NP
Cadmium (mg/L)	**BRGWC-50**	**-0.006628**	**-98**	**-58**	**Yes**	**19**	**0**	**n/a**	**0.05**	**NP**
Cadmium (mg/L)	PZ-60I	-0.0005838	-5	-10	No	5	0	n/a	0.05	NP
Cobalt (mg/L)	BRGWA-12I (bg)	0	0	58	No	19	100	n/a	0.05	NP
Cobalt (mg/L)	BRGWA-12S (bg)	0	0	58	No	19	100	n/a	0.05	NP
Cobalt (mg/L)	**BRGWA-23S (bg)**	**-0.0006334**	**-99**	**-58**	**Yes**	**19**	**21.05**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	BRGWA-2I (bg)	0	-41	-58	No	19	63.16	n/a	0.05	NP
Cobalt (mg/L)	**BRGWA-2S (bg)**	**-0.0003364**	**-119**	**-58**	**Yes**	**19**	**10.53**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**BRGWA-5I (bg)**	**-0.0001008**	**-66**	**-49**	**Yes**	**17**	**0**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	BRGWA-5S (bg)	0	13	58	No	19	68.42	n/a	0.05	NP
Cobalt (mg/L)	BRGWA-6S (bg)	0	15	58	No	19	73.68	n/a	0.05	NP
Cobalt (mg/L)	BRGWC-50	0	16	58	No	19	0	n/a	0.05	NP
Cobalt (mg/L)	PZ-51I	0.001415	27	30	No	12	0	n/a	0.05	NP
Cobalt (mg/L)	PZ-58I	0.08766	10	10	No	5	0	n/a	0.05	NP
Cobalt (mg/L)	PZ-60I	0.1881	8	10	No	5	0	n/a	0.05	NP
Cobalt (mg/L)	PZ-61I	0.1401	10	10	No	5	0	n/a	0.05	NP
Lithium (mg/L)	BRGWA-12I (bg)	-0.0001266	-41	-53	No	18	0	n/a	0.05	NP
Lithium (mg/L)	BRGWA-12S (bg)	0	0	53	No	18	100	n/a	0.05	NP
Lithium (mg/L)	BRGWA-23S (bg)	0.0002474	30	58	No	19	0	n/a	0.05	NP
Lithium (mg/L)	BRGWA-2I (bg)	-0.001146	-33	-58	No	19	0	n/a	0.05	NP
Lithium (mg/L)	BRGWA-2S (bg)	0	0	58	No	19	100	n/a	0.05	NP
Lithium (mg/L)	BRGWA-5I (bg)	-0.0002928	-38	-58	No	19	26.32	n/a	0.05	NP
Lithium (mg/L)	BRGWA-5S (bg)	0	0	58	No	19	100	n/a	0.05	NP
Lithium (mg/L)	BRGWA-6S (bg)	0.0001136	56	58	No	19	5.263	n/a	0.05	NP
Lithium (mg/L)	PZ-60I	-0.0008267	0	10	No	5	0	n/a	0.05	NP
Selenium (mg/L)	BRGWA-12I (bg)	0	0	53	No	18	100	n/a	0.05	NP
Selenium (mg/L)	BRGWA-12S (bg)	0	0	53	No	18	100	n/a	0.05	NP
Selenium (mg/L)	BRGWA-23S (bg)	-0.00002946	-22	-58	No	19	36.84	n/a	0.05	NP
Selenium (mg/L)	BRGWA-2I (bg)	0	0	58	No	19	100	n/a	0.05	NP
Selenium (mg/L)	BRGWA-2S (bg)	0	0	58	No	19	100	n/a	0.05	NP
Selenium (mg/L)	BRGWA-5I (bg)	0	0	58	No	19	100	n/a	0.05	NP
Selenium (mg/L)	BRGWA-5S (bg)	0	0	58	No	19	100	n/a	0.05	NP
Selenium (mg/L)	BRGWA-6S (bg)	0	0	58	No	19	100	n/a	0.05	NP
Selenium (mg/L)	**BRGWC-32S**	**0.03358**	**137**	**62**	**Yes**	**20**	**20**	**n/a**	**0.05**	**NP**

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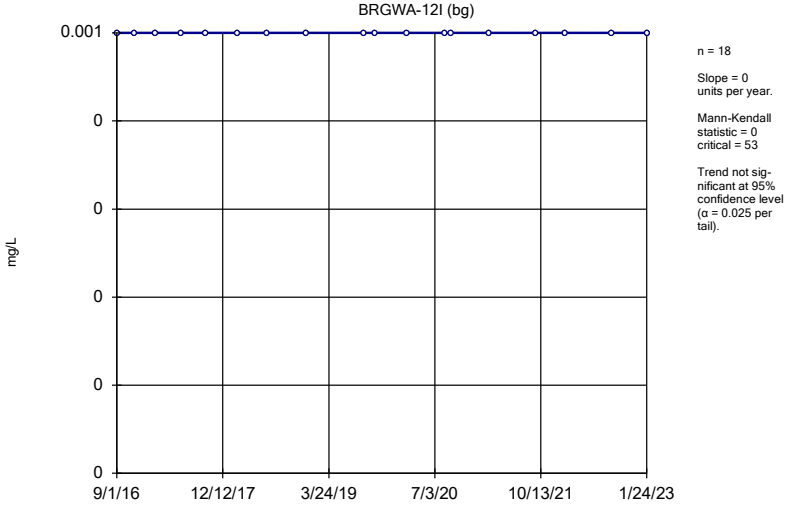
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-12I (bg)



n = 18

Slope = 0
units per year.

Mann-Kendall
statistic = 0
critical = 53

Trend not sig-
nificant at 95%
confidence level
(α = 0.025 per
tail).

Constituent: Beryllium Analysis Run 1/31/2024 1:58 PM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

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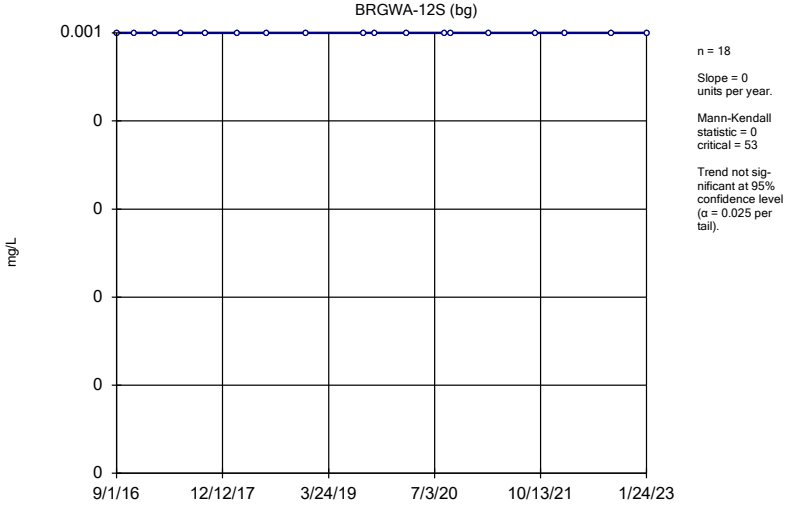
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-12S (bg)



n = 18

Slope = 0
units per year.

Mann-Kendall
statistic = 0
critical = 53

Trend not sig-
nificant at 95%
confidence level
(α = 0.025 per
tail).

Constituent: Beryllium Analysis Run 1/31/2024 1:58 PM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

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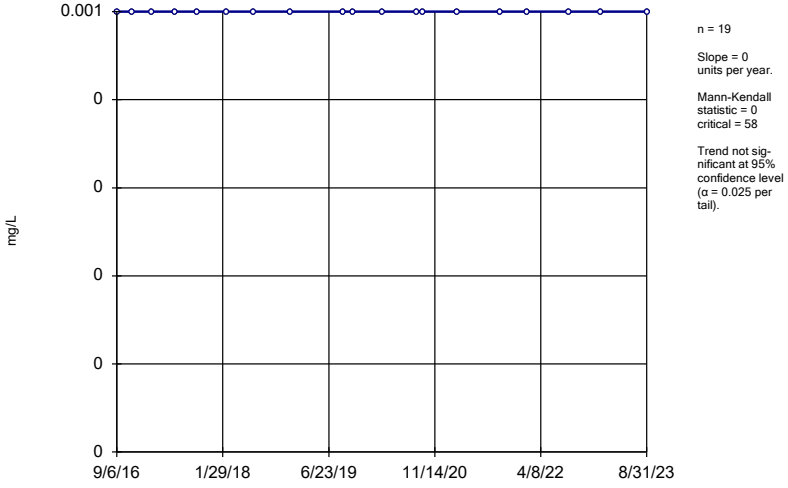
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-23S (bg)



n = 19

Slope = 0
units per year.

Mann-Kendall
statistic = 0
critical = 58

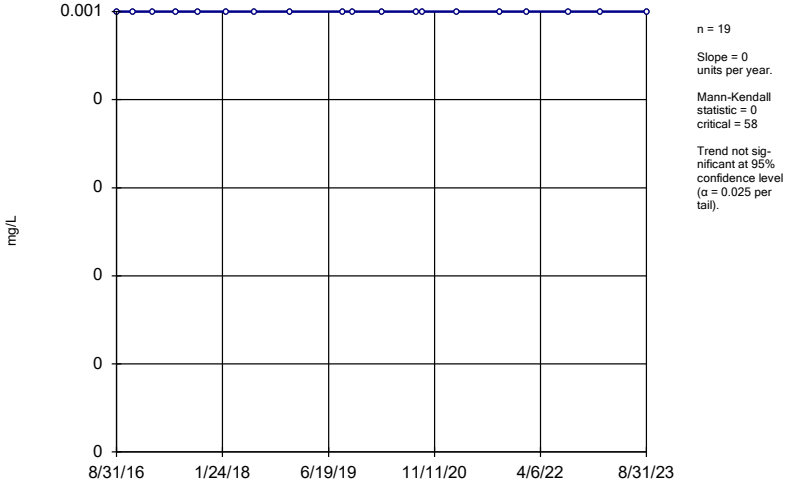
Trend not sig-
nificant at 95%
confidence level
(α = 0.025 per
tail).

Constituent: Beryllium Analysis Run 1/31/2024 1:58 PM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.15 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-2I (bg)



n = 19

Slope = 0
units per year.

Mann-Kendall
statistic = 0
critical = 58

Trend not sig-
nificant at 95%
confidence level
(α = 0.025 per
tail).

Constituent: Beryllium Analysis Run 1/31/2024 1:58 PM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

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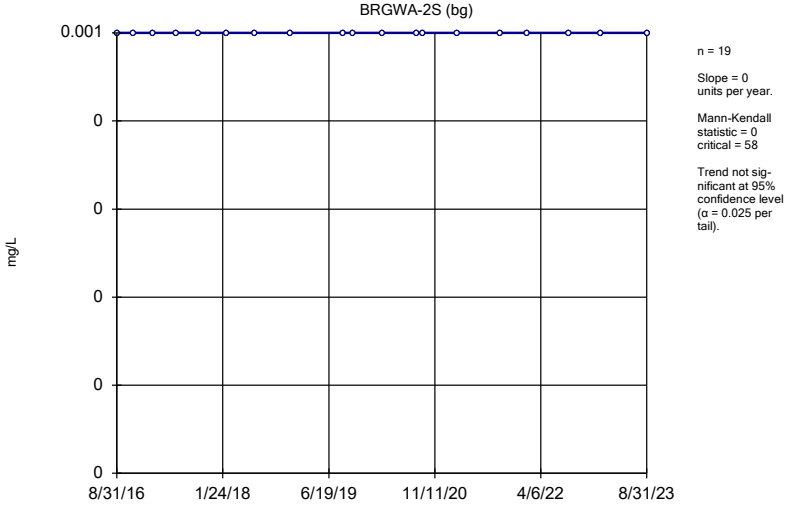
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-2S (bg)



n = 19

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 58

Trend not sig-nificant at 95% confidence level (α = 0.025 per tail).

Constituent: Beryllium Analysis Run 1/31/2024 1:58 PM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

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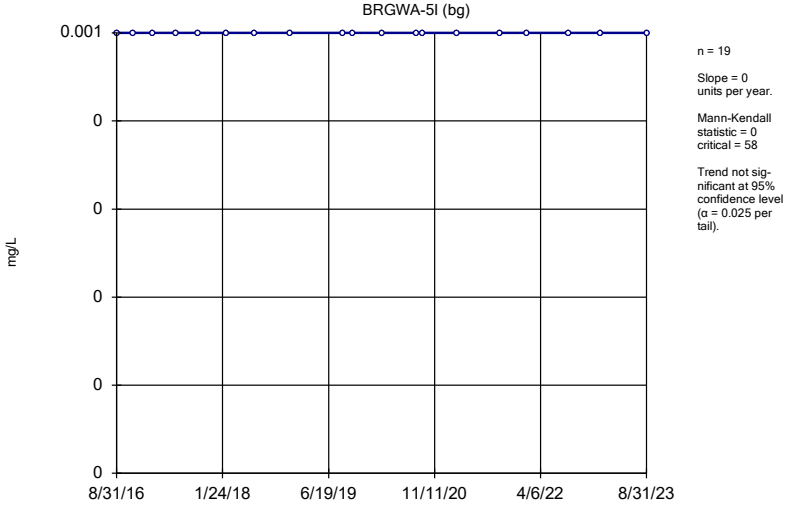
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-5I (bg)



n = 19

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 58

Trend not sig-nificant at 95% confidence level (α = 0.025 per tail).

Constituent: Beryllium Analysis Run 1/31/2024 1:58 PM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

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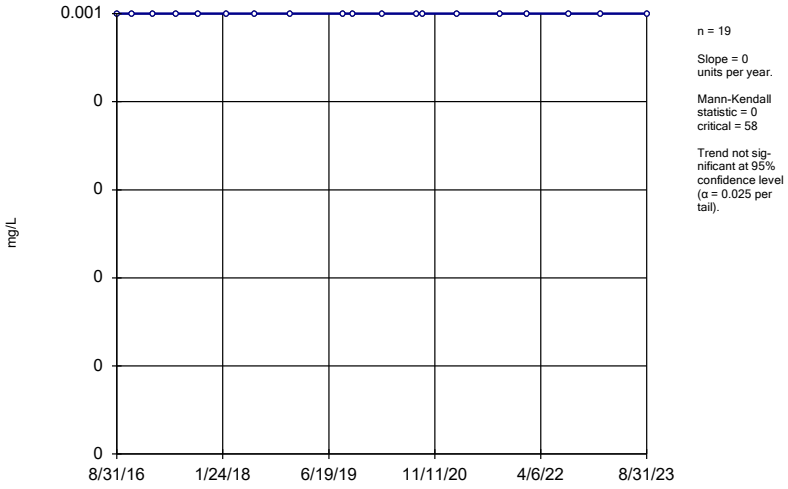
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-5S (bg)



n = 19

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 58

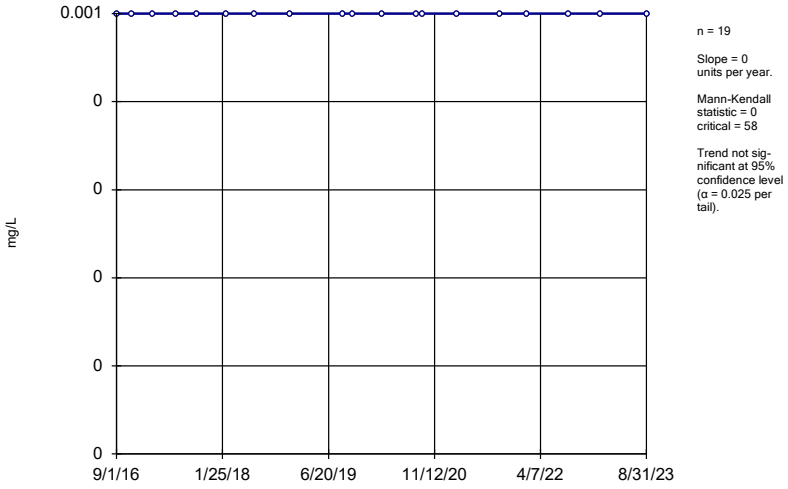
Trend not sig-nificant at 95% confidence level (α = 0.025 per tail).

Constituent: Beryllium Analysis Run 1/31/2024 1:58 PM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.15 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-6S (bg)



n = 19

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 58

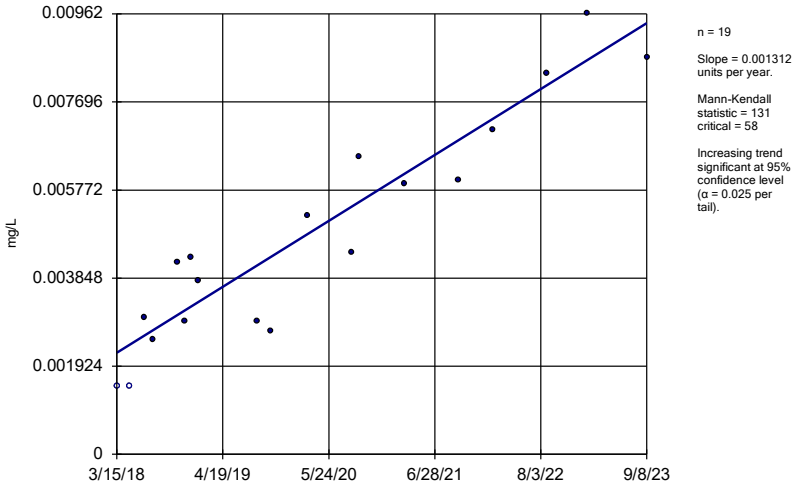
Trend not sig-nificant at 95% confidence level (α = 0.025 per tail).

Constituent: Beryllium Analysis Run 1/31/2024 1:58 PM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.15 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWC-50



n = 19

Slope = 0.001312 units per year.

Mann-Kendall statistic = 131
critical = 58

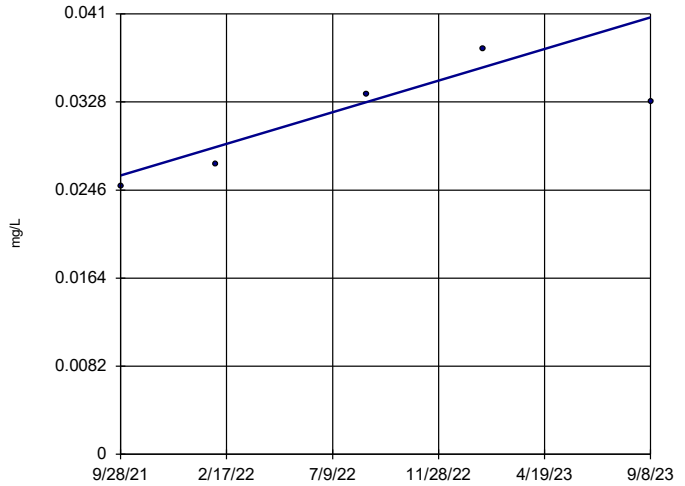
Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Beryllium Analysis Run 1/31/2024 1:58 PM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.15 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

PZ-58I



n = 5

Slope = 0.007552 units per year.

Mann-Kendall statistic = 6
critical = 10

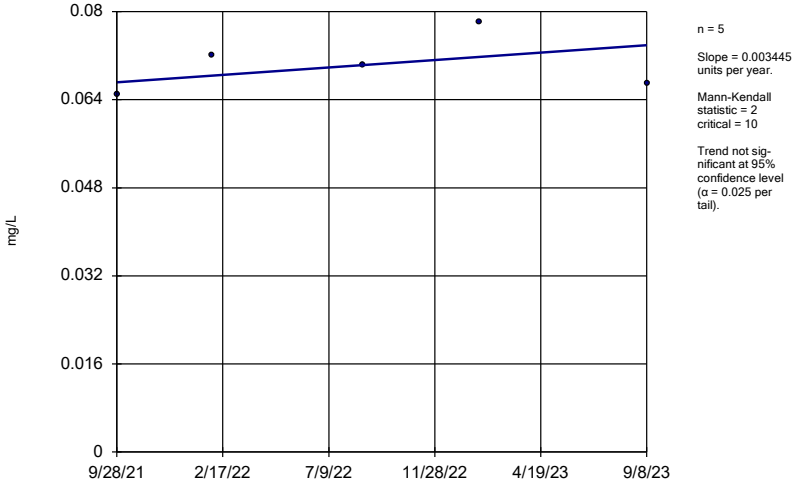
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Beryllium Analysis Run 1/31/2024 1:58 PM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.15 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

PZ-60I



n = 5

Slope = 0.003445 units per year.

Mann-Kendall statistic = 2
critical = 10

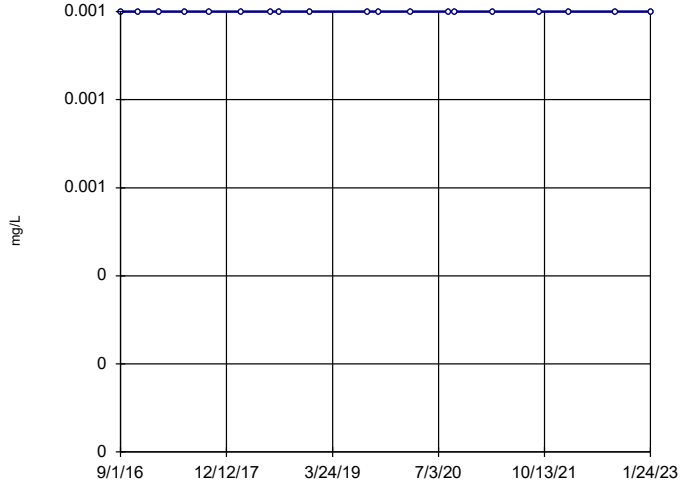
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Beryllium Analysis Run 1/31/2024 1:58 PM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.15 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-12I (bg)



n = 19

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 58

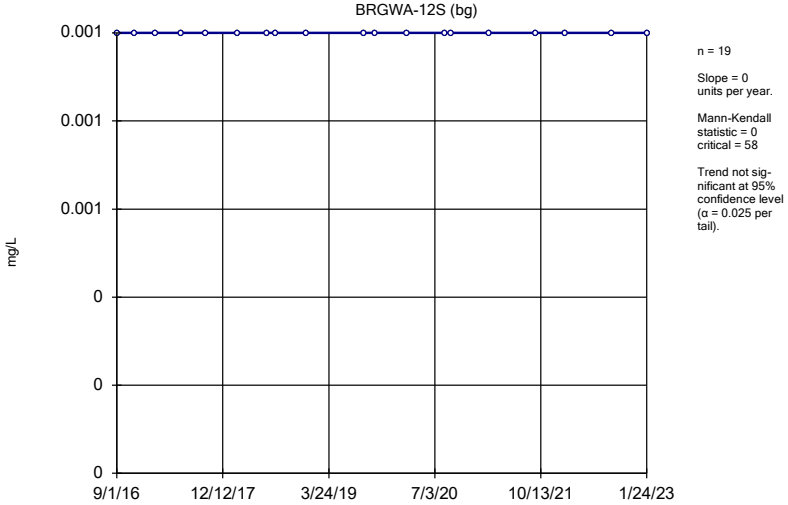
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cadmium Analysis Run 1/31/2024 1:58 PM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.15 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-12S (bg)



n = 19

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 58

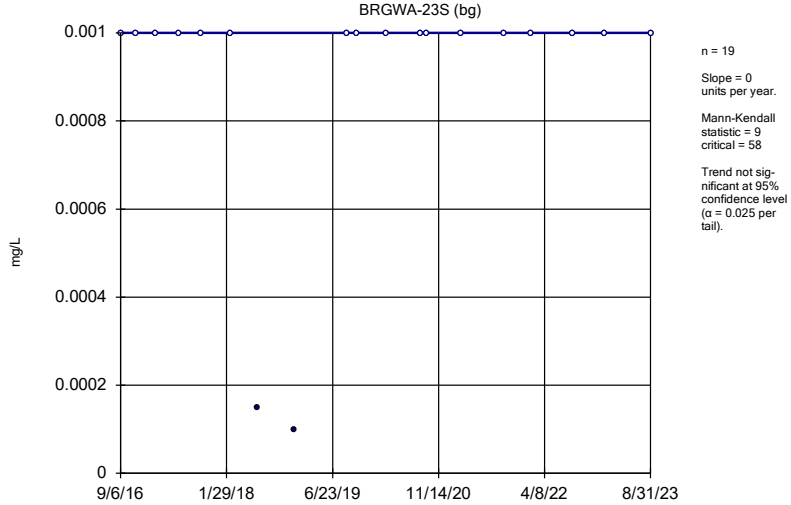
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cadmium Analysis Run 1/31/2024 1:58 PM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.15 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-23S (bg)



n = 19

Slope = 0 units per year.

Mann-Kendall statistic = 9
critical = 58

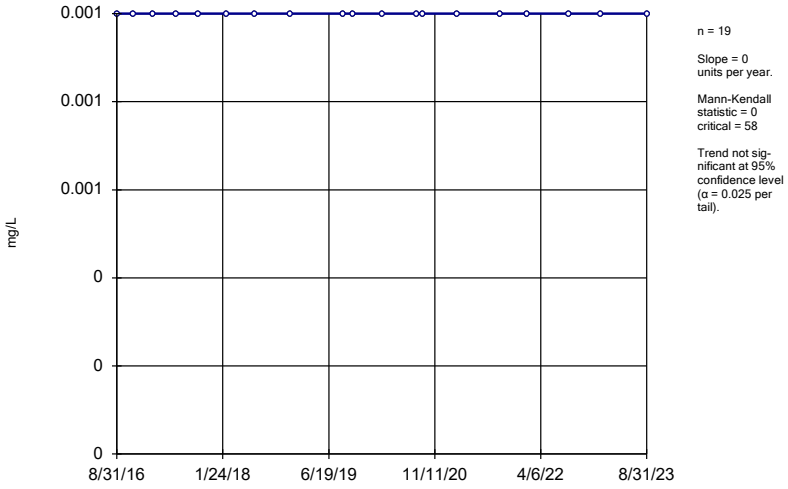
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cadmium Analysis Run 1/31/2024 1:58 PM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.15 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-2I (bg)



n = 19

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 58

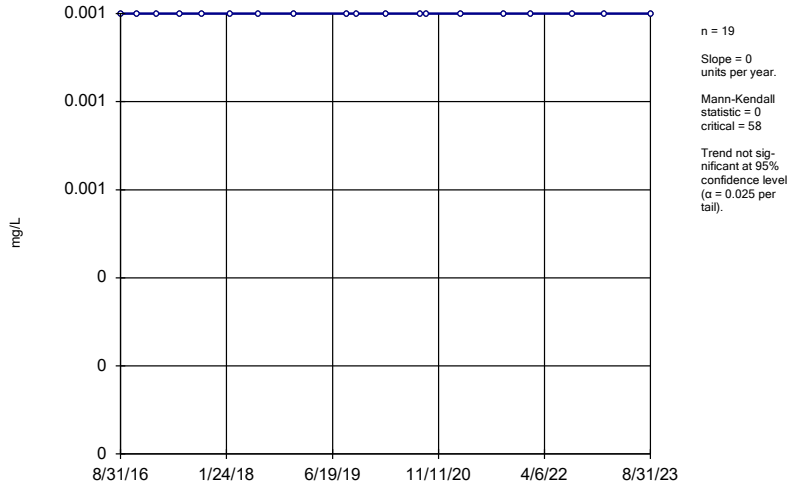
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cadmium Analysis Run 1/31/2024 1:58 PM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.15 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-2S (bg)



n = 19

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 58

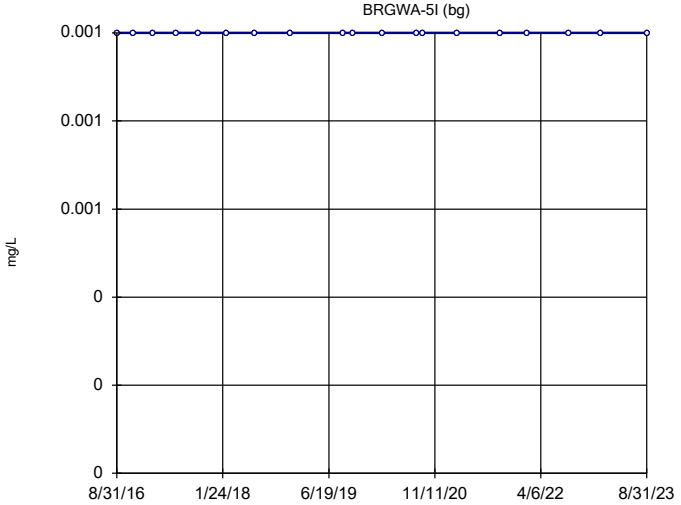
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cadmium Analysis Run 1/31/2024 1:58 PM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.15 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-5I (bg)



n = 19

Slope = 0 units per year.

Mann-Kendall statistic = 0 critical = 58

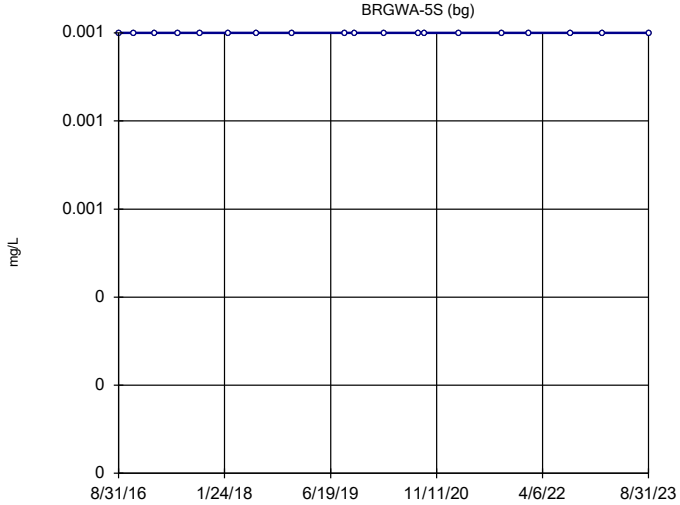
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cadmium Analysis Run 1/31/2024 1:58 PM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.15 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-5S (bg)



n = 19

Slope = 0 units per year.

Mann-Kendall statistic = 0 critical = 58

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cadmium Analysis Run 1/31/2024 1:58 PM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

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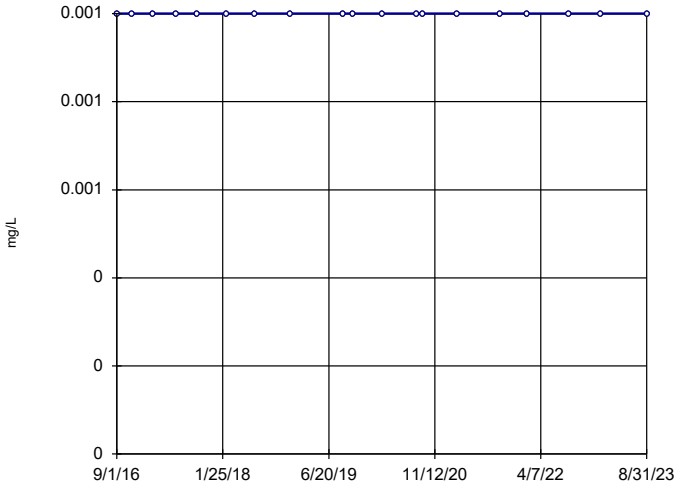
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-6S (bg)



n = 19

Slope = 0 units per year.

Mann-Kendall statistic = 0 critical = 58

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cadmium Analysis Run 1/31/2024 1:58 PM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

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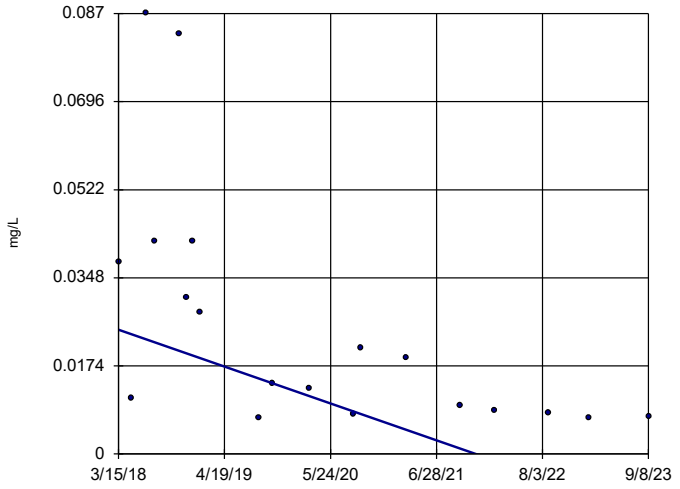
Sen's Slope Estimator

BRGWC-50



n = 19

Slope = -0.006628 units per year.

Mann-Kendall statistic = -98 critical = -58

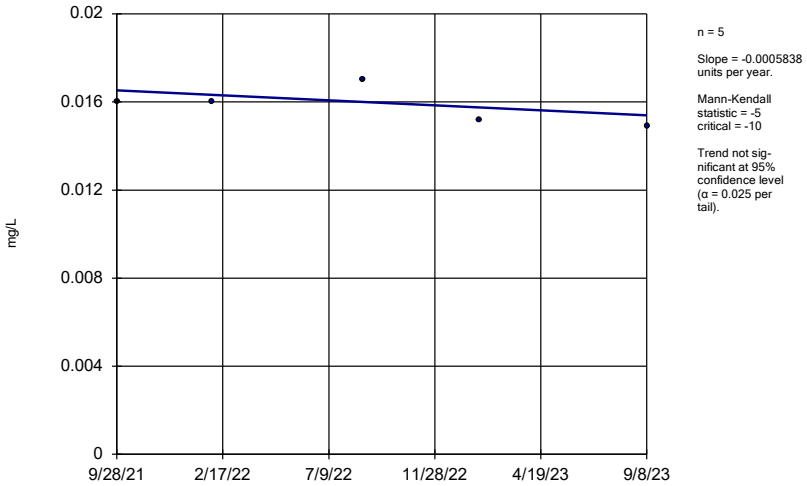
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cadmium Analysis Run 1/31/2024 1:58 PM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.15 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

PZ-60I



n = 5

Slope = -0.0005838 units per year.

Mann-Kendall statistic = -5 critical = -10

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cadmium Analysis Run 1/31/2024 1:58 PM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

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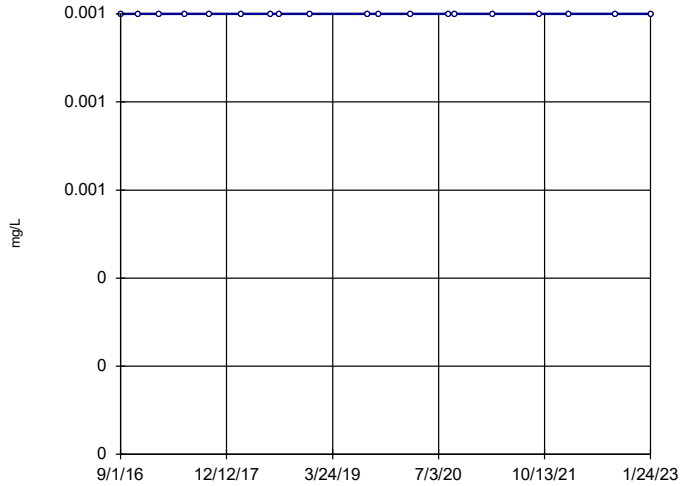
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-12I (bg)



n = 19

Slope = 0 units per year.

Mann-Kendall statistic = 0 critical = 58

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 1/31/2024 1:58 PM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

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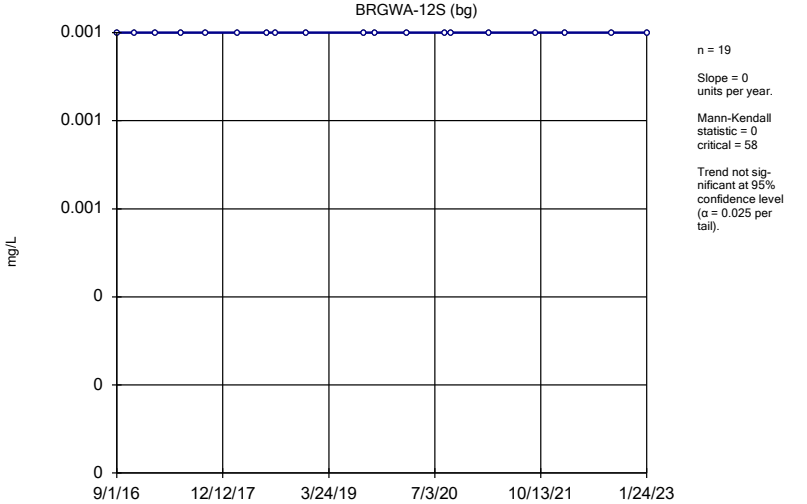
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-12S (bg)



n = 19

Slope = 0 units per year.

Mann-Kendall statistic = 0 critical = 58

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 1/31/2024 1:58 PM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

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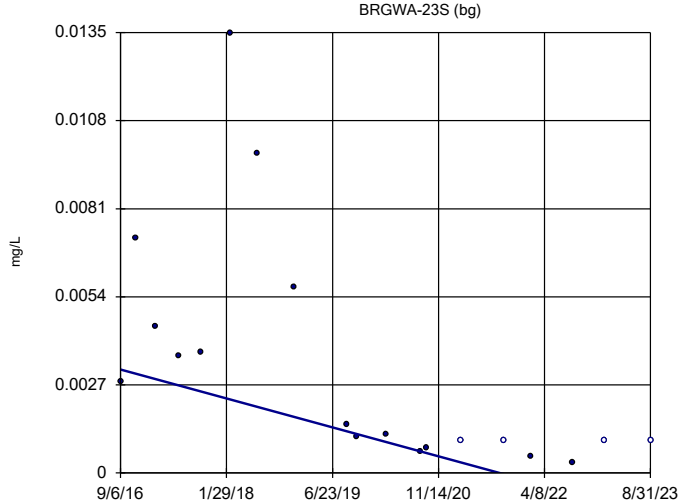
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-23S (bg)



n = 19

Slope = -0.0006334 units per year.

Mann-Kendall statistic = -99 critical = -58

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 1/31/2024 1:58 PM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

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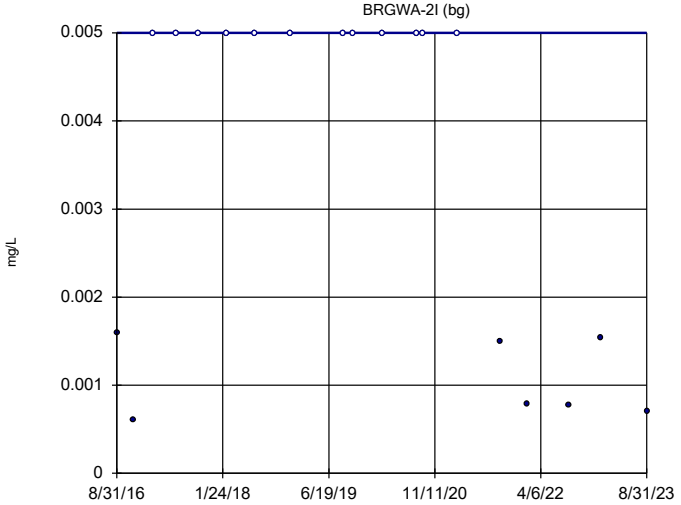
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-2I (bg)



n = 19

Slope = 0
units per year.

Mann-Kendall
statistic = -41
critical = -58

Trend not sig-
nificant at 95%
confidence level
(α = 0.025 per
tail).

Constituent: Cobalt Analysis Run 1/31/2024 1:58 PM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

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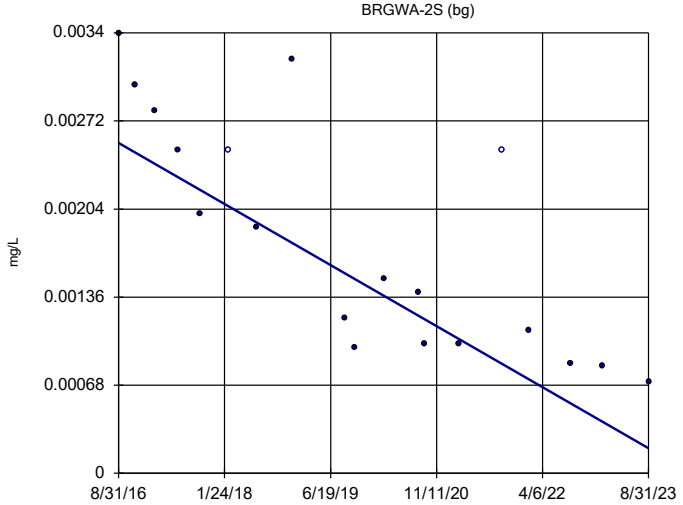
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-2S (bg)



n = 19

Slope = -0.0003364
units per year.

Mann-Kendall
statistic = -119
critical = -58

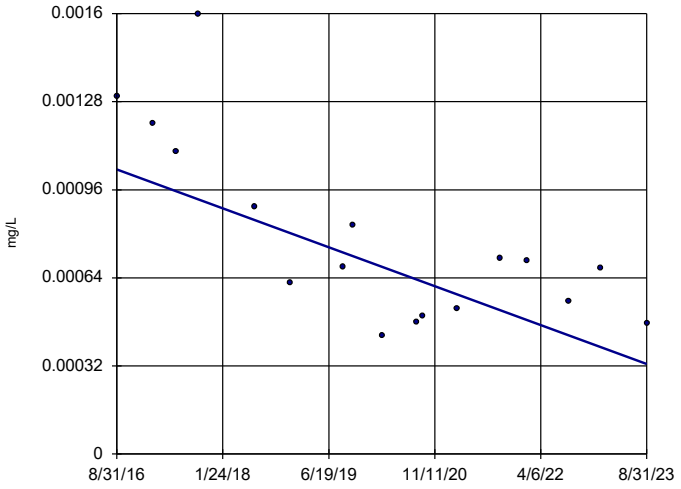
Decreasing trend
significant at 95%
confidence level
(α = 0.025 per
tail).

Constituent: Cobalt Analysis Run 1/31/2024 1:58 PM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.15 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWA-5I (bg)



n = 17

Slope = -0.0001008
units per year.

Mann-Kendall
statistic = -66
critical = -49

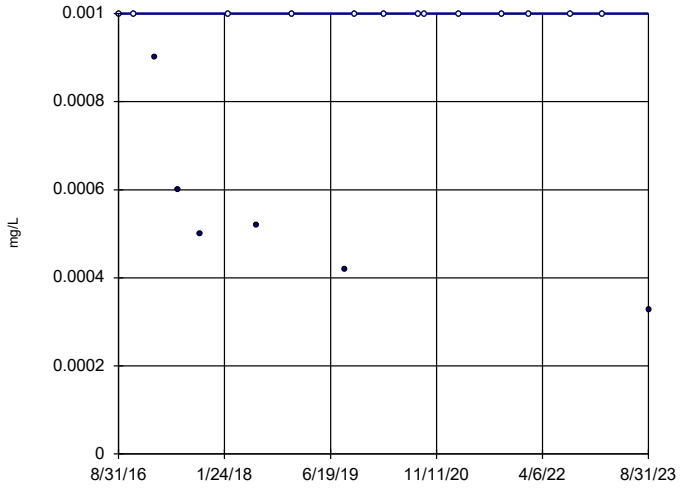
Decreasing trend
significant at 95%
confidence level
(α = 0.025 per
tail).

Constituent: Cobalt Analysis Run 1/31/2024 1:58 PM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.15 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-5S (bg)



n = 19

Slope = 0
units per year.

Mann-Kendall
statistic = 13
critical = 58

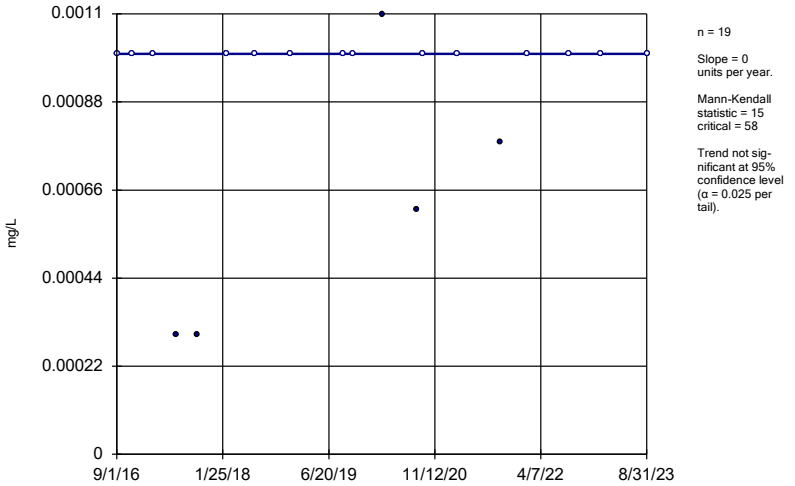
Trend not sig-
nificant at 95%
confidence level
(α = 0.025 per
tail).

Constituent: Cobalt Analysis Run 1/31/2024 1:58 PM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.15 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-6S (bg)



n = 19

Slope = 0 units per year.

Mann-Kendall statistic = 15 critical = 58

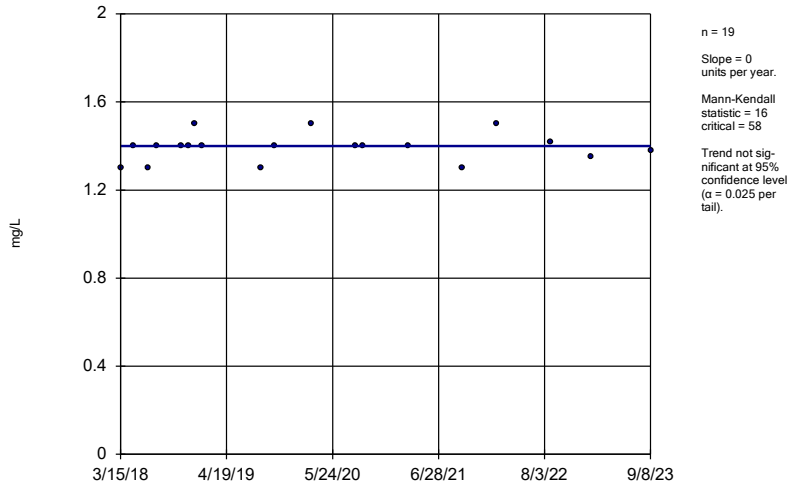
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 1/31/2024 1:58 PM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.15 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWC-50



n = 19

Slope = 0 units per year.

Mann-Kendall statistic = 16 critical = 58

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 1/31/2024 1:58 PM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

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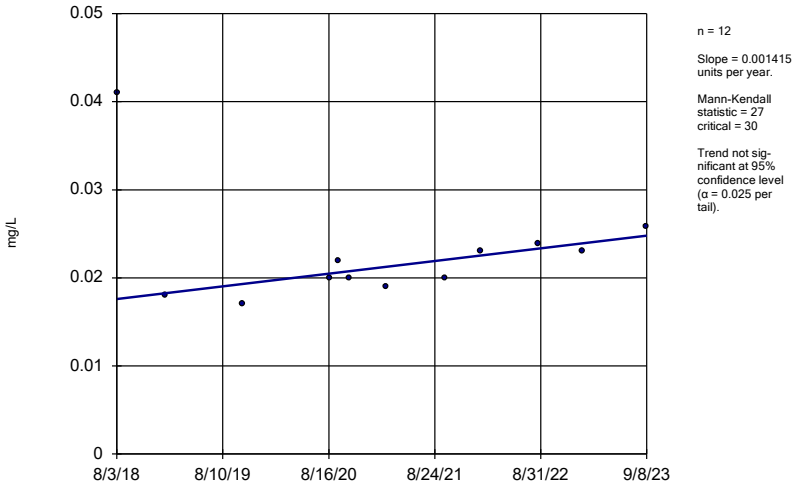
Sen's Slope Estimator

PZ-51I



n = 12

Slope = 0.001415 units per year.

Mann-Kendall statistic = 27 critical = 30

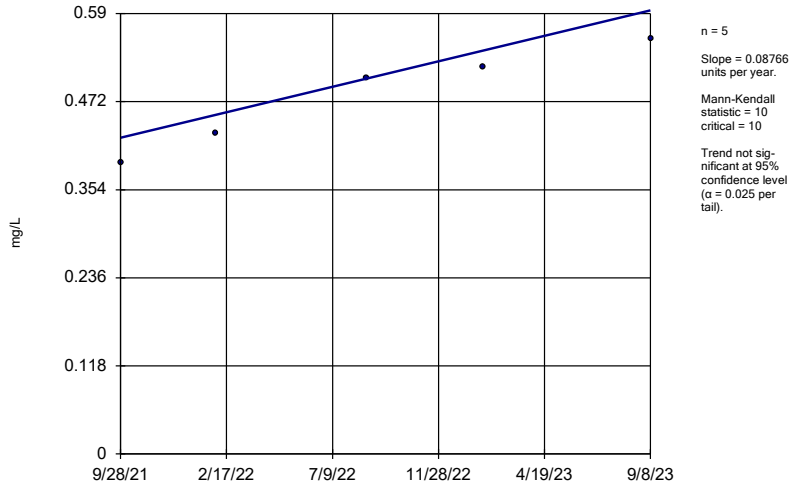
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 1/31/2024 1:58 PM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.15 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

PZ-58I



n = 5

Slope = 0.08766 units per year.

Mann-Kendall statistic = 10 critical = 10

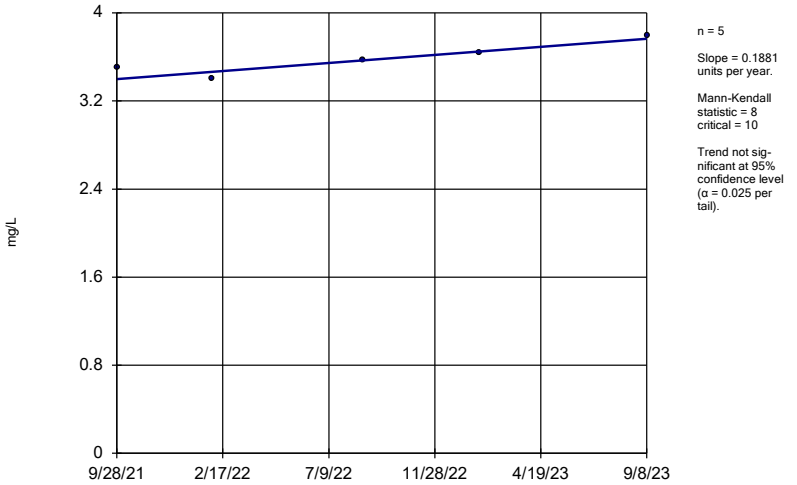
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 1/31/2024 1:58 PM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.15 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

PZ-60I



n = 5

Slope = 0.1881 units per year.

Mann-Kendall statistic = 8
critical = 10

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 1/31/2024 1:58 PM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

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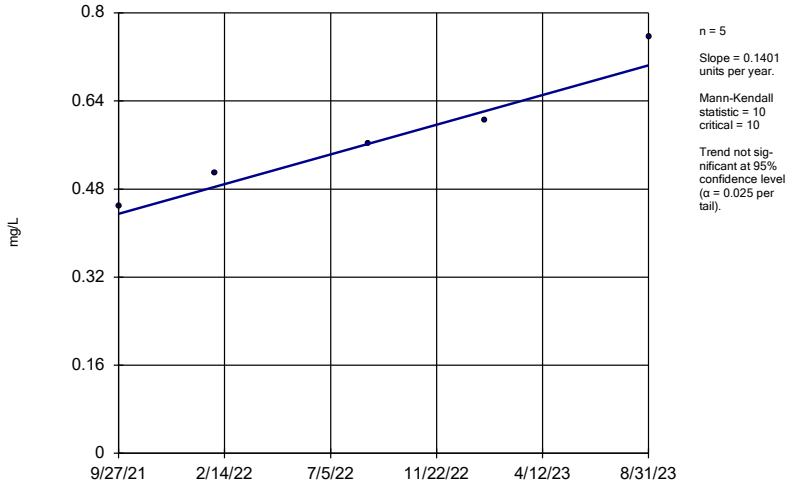
Sen's Slope Estimator

PZ-61I



n = 5

Slope = 0.1401 units per year.

Mann-Kendall statistic = 10
critical = 10

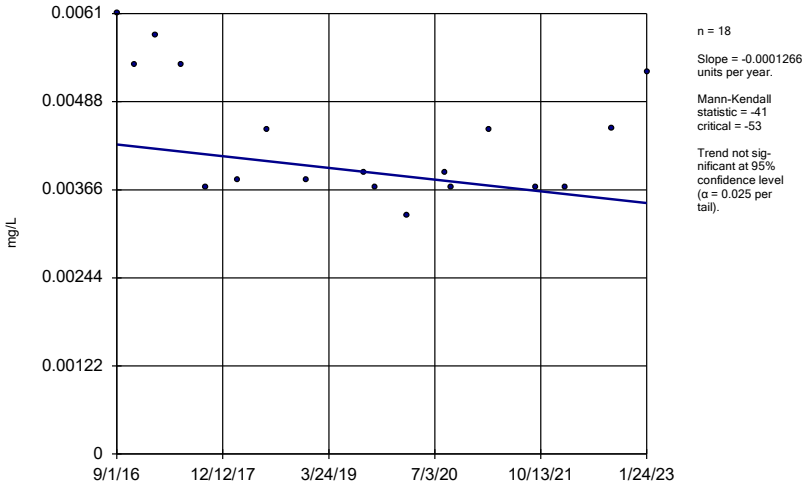
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 1/31/2024 1:58 PM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.15 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWA-12I (bg)



n = 18

Slope = -0.0001266 units per year.

Mann-Kendall statistic = -41
critical = -53

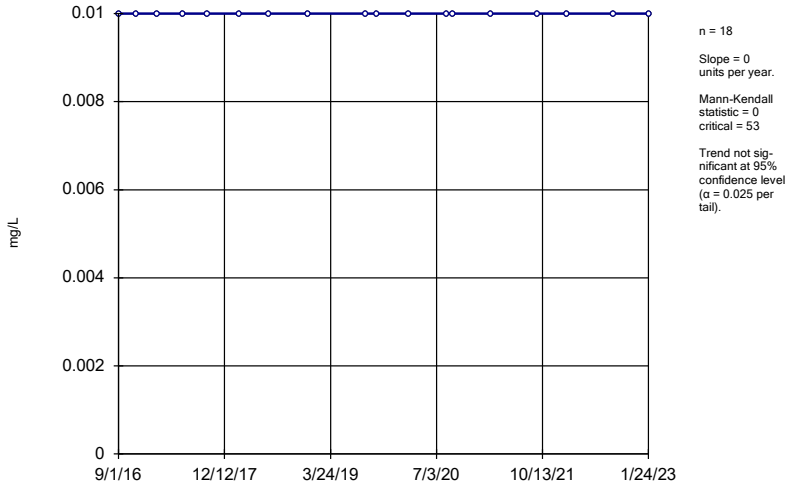
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 1/31/2024 1:58 PM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.15 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-12S (bg)



n = 18

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 53

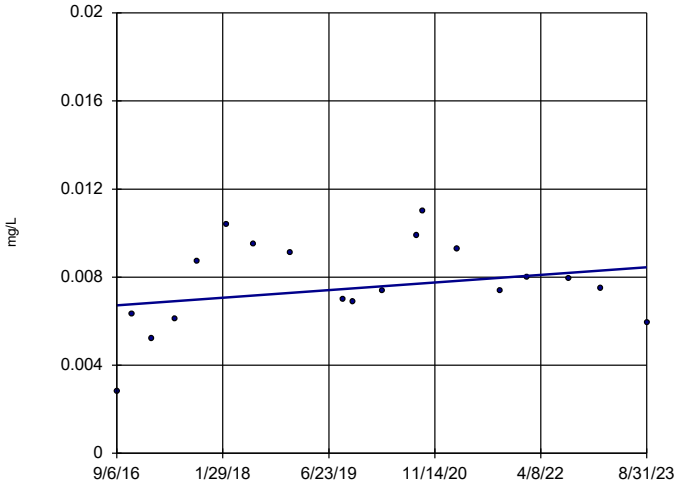
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 1/31/2024 1:58 PM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.15 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWA-23S (bg)



n = 19

Slope = 0.0002474 units per year.

Mann-Kendall statistic = 30 critical = 58

Trend not significant at 95% confidence level (α = 0.025 per tail).

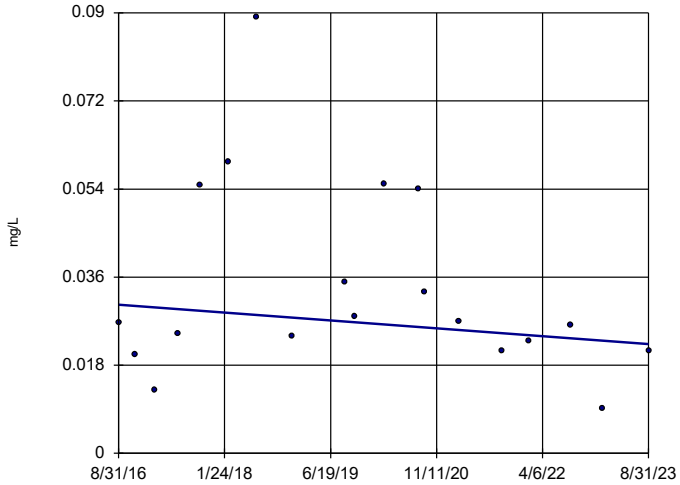
Constituent: Lithium Analysis Run 1/31/2024 1:58 PM View: Pond BCD - Appendix IV Trend Tests

Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.15 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWA-2I (bg)



n = 19

Slope = -0.001146 units per year.

Mann-Kendall statistic = -33 critical = -58

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 1/31/2024 1:58 PM View: Pond BCD - Appendix IV Trend Tests

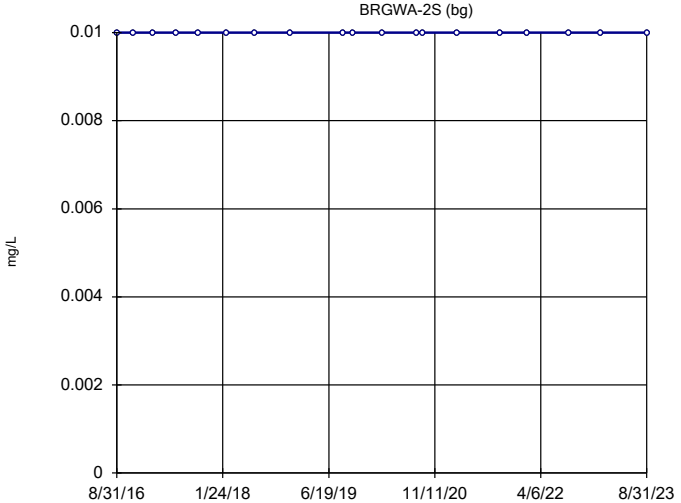
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.15 Software licensed to Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-2S (bg)



n = 19

Slope = 0 units per year.

Mann-Kendall statistic = 0 critical = 58

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 1/31/2024 1:58 PM View: Pond BCD - Appendix IV Trend Tests

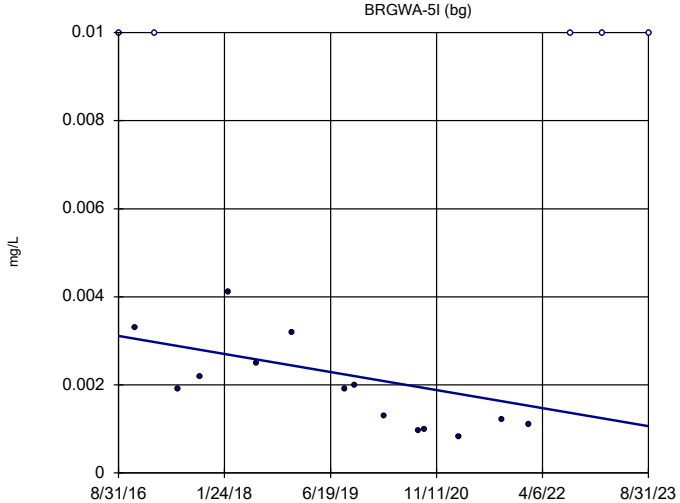
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.15 Software licensed to Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-5I (bg)



n = 19

Slope = -0.0002928 units per year.

Mann-Kendall statistic = -38 critical = -58

Trend not significant at 95% confidence level (α = 0.025 per tail).

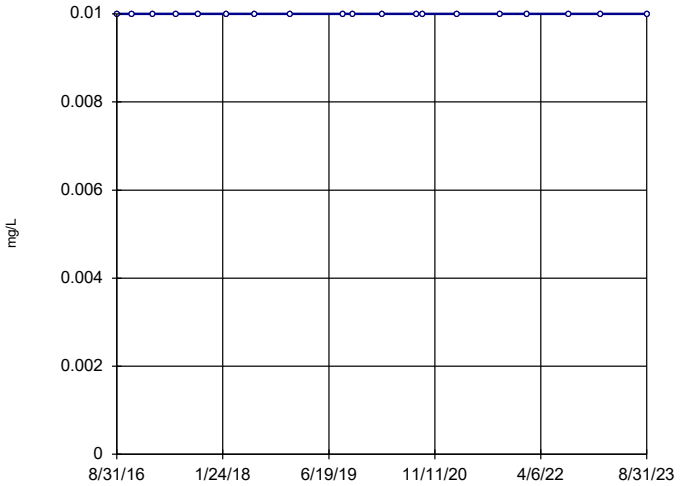
Constituent: Lithium Analysis Run 1/31/2024 1:58 PM View: Pond BCD - Appendix IV Trend Tests

Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.15 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-5S (bg)



n = 19

Slope = 0
units per year.

Mann-Kendall
statistic = 0
critical = 58

Trend not sig-
nificant at 95%
confidence level
(α = 0.025 per
tail).

Constituent: Lithium Analysis Run 1/31/2024 1:58 PM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

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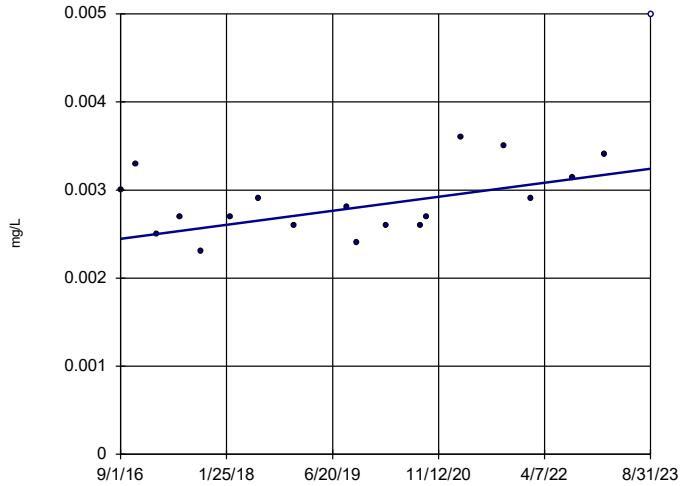
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-6S (bg)



n = 19

Slope = 0.0001136
units per year.

Mann-Kendall
statistic = 56
critical = 58

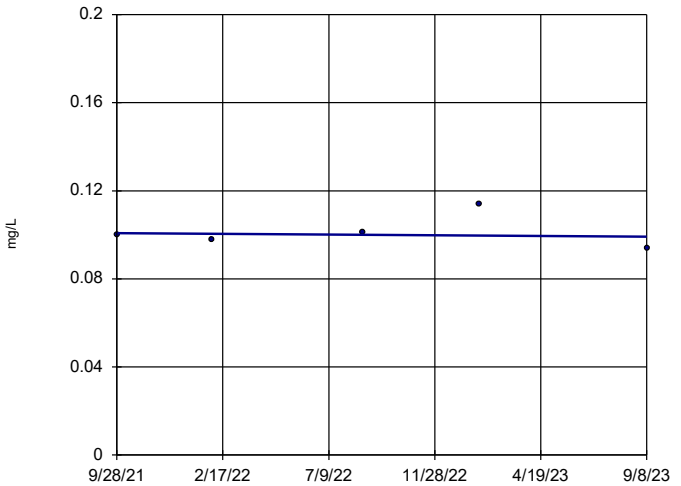
Trend not sig-
nificant at 95%
confidence level
(α = 0.025 per
tail).

Constituent: Lithium Analysis Run 1/31/2024 1:58 PM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.15 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

PZ-60I



n = 5

Slope = -0.0008267
units per year.

Mann-Kendall
statistic = 0
critical = 10

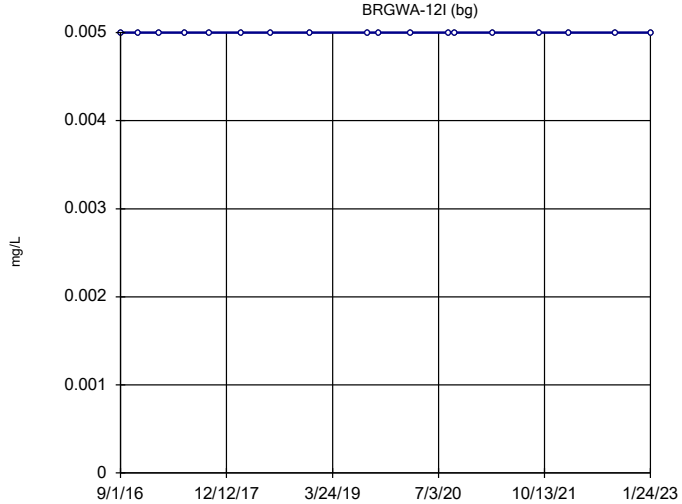
Trend not sig-
nificant at 95%
confidence level
(α = 0.025 per
tail).

Constituent: Lithium Analysis Run 1/31/2024 1:58 PM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.15 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-12I (bg)



n = 18

Slope = 0
units per year.

Mann-Kendall
statistic = 0
critical = 53

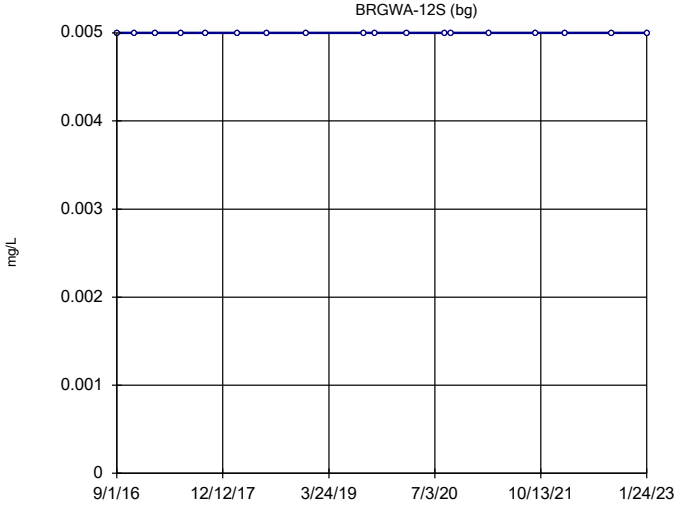
Trend not sig-
nificant at 95%
confidence level
(α = 0.025 per
tail).

Constituent: Selenium Analysis Run 1/31/2024 1:58 PM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.15 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-12S (bg)



n = 18

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 53

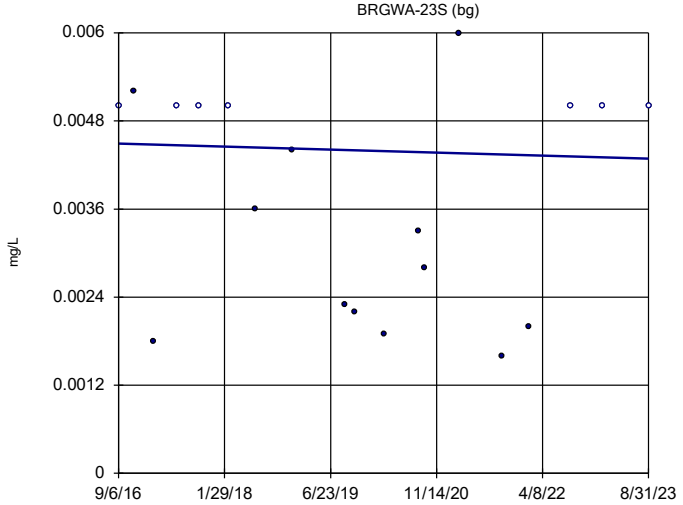
Trend not sig-nificant at 95% confidence level (α = 0.025 per tail).

Constituent: Selenium Analysis Run 1/31/2024 1:58 PM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.15 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-23S (bg)



n = 19

Slope = -0.00002946 units per year.

Mann-Kendall statistic = -22
critical = -58

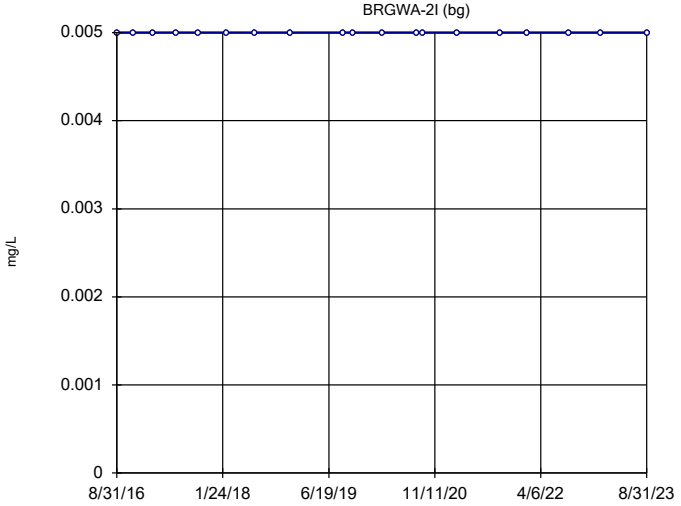
Trend not sig-nificant at 95% confidence level (α = 0.025 per tail).

Constituent: Selenium Analysis Run 1/31/2024 1:58 PM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.15 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-2I (bg)



n = 19

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 58

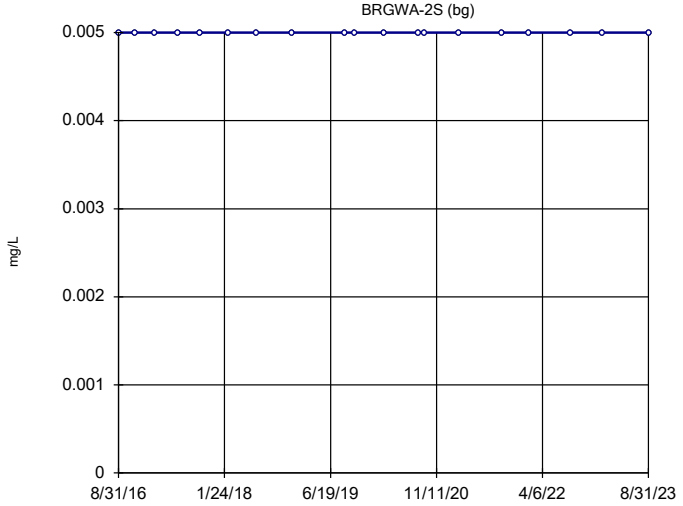
Trend not sig-nificant at 95% confidence level (α = 0.025 per tail).

Constituent: Selenium Analysis Run 1/31/2024 1:58 PM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.15 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-2S (bg)



n = 19

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 58

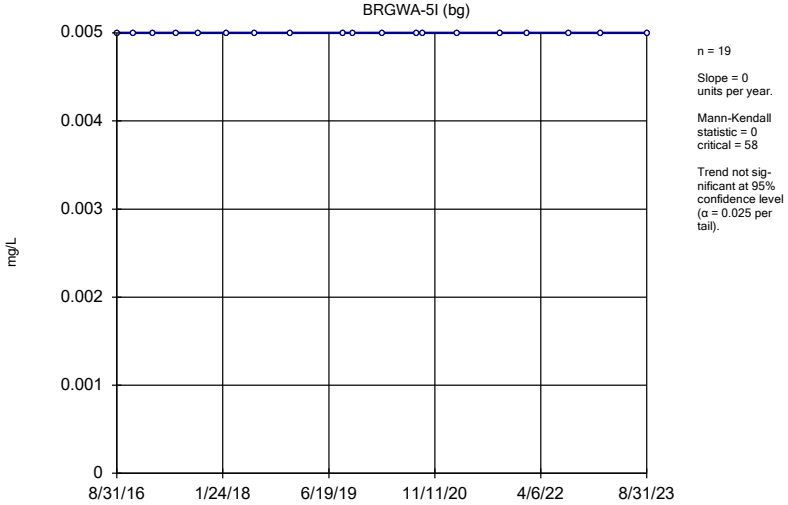
Trend not sig-nificant at 95% confidence level (α = 0.025 per tail).

Constituent: Selenium Analysis Run 1/31/2024 1:58 PM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.15 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-5I (bg)



n = 19

Slope = 0 units per year.

Mann-Kendall statistic = 0 critical = 58

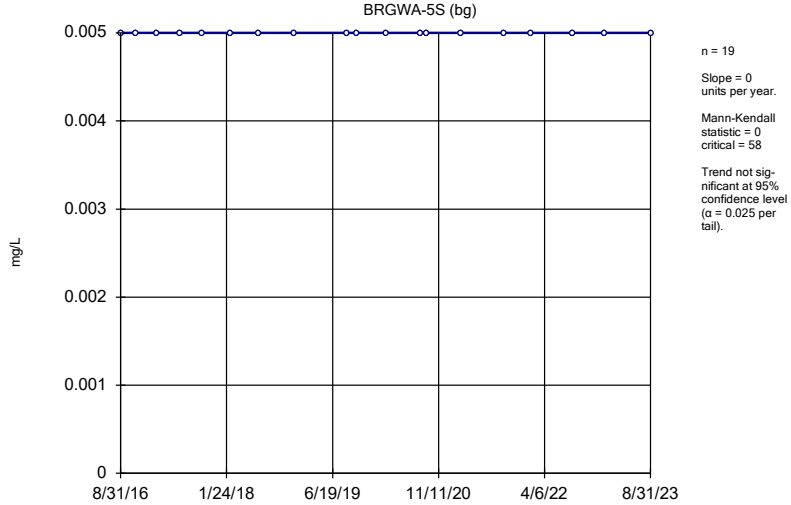
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Selenium Analysis Run 1/31/2024 1:58 PM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.15 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-5S (bg)



n = 19

Slope = 0 units per year.

Mann-Kendall statistic = 0 critical = 58

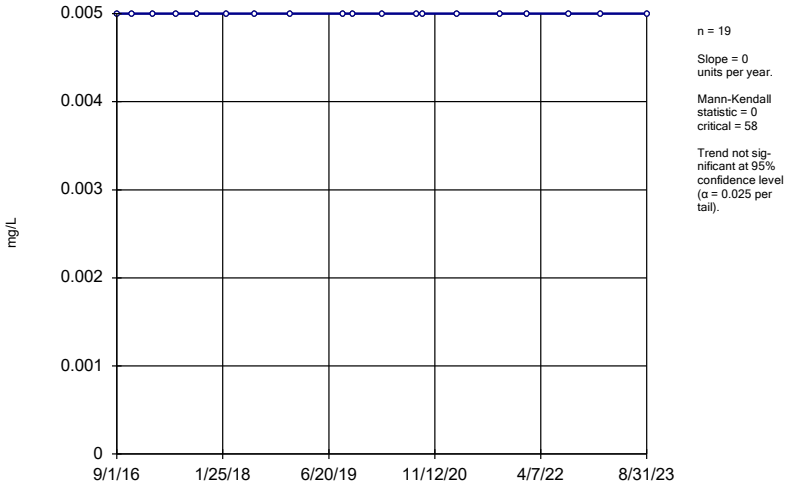
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Selenium Analysis Run 1/31/2024 1:58 PM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.15 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-6S (bg)



n = 19

Slope = 0 units per year.

Mann-Kendall statistic = 0 critical = 58

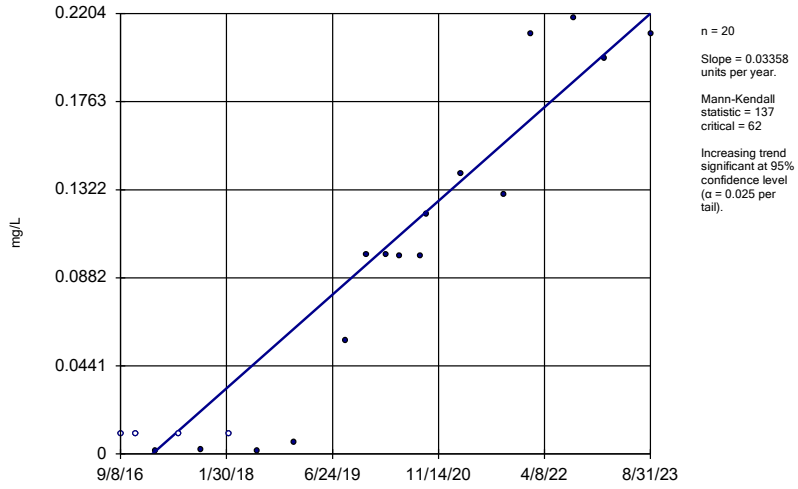
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Selenium Analysis Run 1/31/2024 1:59 PM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.15 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWC-32S



n = 20

Slope = 0.03358 units per year.

Mann-Kendall statistic = 137 critical = 62

Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Selenium Analysis Run 1/31/2024 1:59 PM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

GROUNDWATER STATS CONSULTING

July 31, 2024

Southern Company Services
Attn: Mr. Joju Abraham
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308-3374

Re: Plant Branch Ponds B, C, D – January/February 2024 Statistical Analysis

Dear Mr. Abraham,

Groundwater Stats Consulting (GSC), formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the January/February 2024 Semi-Annual Groundwater Detection and Assessment Monitoring Statistical Analysis of groundwater data for Georgia Power Company's Plant Branch Ponds B, C, and D. The analysis complies with the Georgia Environmental Protection Division (EPD) Rules for Solid Waste Management Chapter 391-3-4-.10 as well as with the United States Environmental Protection Agency (USEPA) Unified Guidance (2009). The site is in Assessment Monitoring.

Sampling began for Appendix III and IV parameters in 2016 for most wells. However, sampling for wells BRGWC-45, BRGWC-47, BRGWC-50 and BRGWC-52I began in 2018, and at least 8 background samples have been collected at each of the groundwater monitoring wells. Semi-annual sampling of the majority of constituents has been performed for several years in accordance with the Georgia Department of Natural Resources, Environmental Protection Division groundwater monitoring regulations.

The monitoring well network, as provided by Southern Company Services, consists of the following:

- **Upgradient well:** BRGWA-2I, BRGWA-2S, BRGWA-5I, BRGWA-5S, BRGWA-6S, and BRGWA-23S
- **Downgradient wells:** BRGWC-25I, BRGWC-27I, BRGWC-29I, BRGWC-30I, BRGWC-32S, BRGWC-45, BRGWC-47, BRGWC-50, and BRGWC-52I
- **Assessment wells:** PZ-44, PZ-50D, PZ-51D, PZ-51I, PZ-58I, PZ-60I, PZ-61I, PZ-63I, PZ-64I, PZ-68D, PZ-74I, and PZ-75I

Previously, the monitoring well network included upgradient wells BRGWA-12I and BRGWA-12S, and assessment wells PZ-51S, PZ-57I, PZ-59I, PZ-62I, PZ-65I, PZ-66I, and PZ-69I. Upgradient wells BRGWA-12I and BRGWA-12S were abandoned, but data from these upgradient wells will continue to be included in construction of interwell prediction limits and interwell upper tolerance limits since the data represents historical groundwater quality upgradient of the facility. Assessment wells PZ-51S, PZ-57I, PZ-59I, PZ-62I, PZ-65I, PZ-66I, and PZ-69I are not included in this analysis, per request of Geosyntec Consultants Inc. New assessment wells PZ-74I and PZ-75I were included in the well network and are plotted on time series and box plots. Data from assessment wells are evaluated using confidence intervals when a minimum of 4 samples are available.

Data were sent electronically to GSC, and the statistical analysis was reviewed by Andrew Collins, Project Manager of GSC.

The Coal Combustion Residuals (CCR) program consists of the following constituents:

- **Appendix III** (Detection Monitoring) **-** boron, calcium, chloride, fluoride, pH, sulfate, and TDS
- **Appendix IV** (Assessment Monitoring) **–** antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, combined radium 226 + 228, fluoride, lead, lithium, mercury, molybdenum, selenium, and thallium

Note that when there are no detections present in downgradient wells for a given constituent, statistical analyses are not required. A summary of Appendix IV downgradient and assessment well/constituent pairs with 100% non-detects follows this letter. A substitution of the most recent reporting limit is used for non-detect data.

Time series plots for Appendix III and IV parameters at all wells are provided for the purpose of screening data at these wells (Figure A). Assessment well data are included on the time series graphs, and with the confidence intervals when a minimum of 4 samples are available as discussed above. Additionally, a separate section of box plots is included for all constituents at upgradient and downgradient wells (Figure B). The time series plots are used to initially screen for suspected outliers and trends, while the box plots provide visual representation of variation within individual wells and between all wells. Values in background which have been flagged as outliers may be seen in a lighter font and as a disconnected symbol on the graphs. A summary of flagged outliers follows this report (Figure C).

In earlier analyses, data at all wells were evaluated for the following: 1) outliers; 2) trends; 3) most appropriate statistical method for Appendix III parameters based on site

characteristics of groundwater data upgradient of the facility; and 4) eligibility of downgradient wells when intrawell statistical methods are recommended. Power curves were provided with the previous screening to demonstrate that the selected statistical methods for Appendix III parameters comply with the USEPA Unified Guidance. The EPA suggests the selected statistical method should provide at least 55% power at 3 standard deviations or at least 80% power at 4 standard deviations.

Summary of Statistical Methods – Appendix III Parameters:

Based on the earlier evaluation described above, the following method was selected:

- Interwell prediction limits, combined with a 1-of-2 resample plan for boron, calcium, chloride, fluoride, pH, sulfate, and TDS

Parametric prediction limits are utilized when the screened historical data follow a normal or transformed-normal distribution. When data cannot be normalized or the majority of data are non-detects, a nonparametric test is utilized. While the false positive rate associated with the parametric limits is based on an annual 10% (5% per semi-annual event) as recommended by the EPA Unified Guidance (2009), the false positive rate associated with the nonparametric limits is dependent upon the available background sample size, number of future comparisons, and verification resample plan. The distribution of data is tested using the Shapiro-Wilk/Shapiro-Francia test for normality. After testing for normality and performing any adjustments as discussed below (US EPA, 2009), data are analyzed using either parametric or non-parametric prediction limits.

After testing for normality and performing any adjustments as discussed below (US EPA, 2009), data are analyzed using either parametric or non-parametric prediction limits.

- No statistical analyses are required on wells and analytes containing 100% non-detects (USEPA Unified Guidance, 2009, Chapter 6).
- When data contain <15% non-detects, simple substitution of one-half the most reporting limit is utilized in the statistical analysis. The reporting limit utilized for non-detects is the most recent practical quantification limit (PQL) as reported by the laboratory.
- When data contain between 15-50% non-detects, the Kaplan-Meier non-detect adjustment is applied to the background data for parametric limits. This technique adjusts the mean and standard deviation of the historical concentrations to account for concentrations below the reporting limit.
- Nonparametric prediction limits are used on data containing greater than 50% non-detects.

Natural systems continuously evolve due to physical changes made to the environment. Examples include capping a landfill, paving areas near a well, or lining a drainage channel to prevent erosion. Periodic updating of background statistical limits is necessary to accommodate these types of changes. In the interwell case, prediction limits are updated with upgradient well data during each event after careful screening for any new outliers. In some cases, the earlier portion of data are deselected prior to construction of limits to provide sensitive limits that will rapidly detect changes in groundwater quality. Even though the data are excluded from the calculation, the values will continue to be reported and shown in tables and graphs.

Summary of Background Screening – Conducted in March 2019

Outlier Analysis

Time series plots were used to identify suspected outliers, or extreme values that would result in limits that are not conservative from a regulatory perspective, in proposed background data. Suspected outliers at all wells for Appendix III and Appendix IV parameters were formally tested using Tukey's box plot method and, when identified either visually or by Tukey's test, flagged in the computer database with "o" and deselected prior to construction of statistical limits. A list of flagged values is provided in the outlier summary. Although outliers are screened for all wells, only outliers in upgradient wells will affect the interwell prediction limits. The current list of outliers includes a few additional measurements that were not flagged as outliers in the previous background screening list for Appendix III parameters.

When suspected outliers were evaluated using the Tukey box plot method during the previous screening, several outliers were identified. In cases where the most recent value was identified as an outlier, values were not flagged in the database as they may represent a future trend. If future values do not remain at similar concentrations, these values will be flagged as outliers and deselected. Several low values exist in the data sets and appear on the graphs as possible low outliers relative to the Practical Quantitation Limit. However, these values are observed trace values (i.e., measurements reported by the laboratory between the Method Detection Limit and the Practical Quantitation Limit) and, therefore, were not flagged as outliers.

When any values are flagged in the database as outliers, they are plotted in a disconnected and lighter symbol on the time series graph. A substitution of the most recent reporting limit was applied when varying detection limits existed in data. Note that the reporting limit for boron during the March 2019 event was 0.1 mg/L; however, the

historical reporting limit of 0.04 mg/L was substituted at that time for all non-detects which provided more conservative (lower) statistical limits.

Seasonality

No obvious seasonal patterns were observed on the time series plots for any of the detected data; therefore, no deseasonalizing adjustments were made to the data. When seasonal patterns are observed, data may be deseasonalized so that the resulting limits will correctly account for the seasonality as a predictable pattern rather than random variation or a release.

Trend Tests

While trends may be identified by visual inspection, a quantification of the trend and its significance is needed. The Sen's Slope/Mann Kendall trend test was used to evaluate all data at each well to identify statistically significant increasing or decreasing trends. In the absence of suspected contamination, significant trending data are typically not included as part of the background data used for construction of prediction limits. This step serves to eliminate the trend and, thus, reduce variation in background. When statistically significant decreasing trends are present, earlier data are evaluated to determine whether earlier concentration levels are significantly different than current reported concentrations and will be deselected as necessary. When the historical records of data are truncated for the reasons above, a summary report will be provided to show the date ranges used in construction of the statistical limits.

The results of the trend analyses, included with the background screening report, showed a number of statistically significant decreasing trends for the Appendix III parameters. All trends noted were relatively low in magnitude when compared to average concentrations; therefore, no adjustments were made to the data sets.

Appendix III – Determination of Spatial Variation

The Analysis of Variance (ANOVA) was used to statistically evaluate differences in average concentrations among upgradient wells, which assists in identifying the most appropriate statistical approach. Interwell tests, which compare downgradient well data to statistical limits constructed from pooled upgradient well data, are appropriate when average concentrations are similar across upgradient wells. Intrawell tests, which compare compliance data from a single well to screened historical data within the same well, are appropriate when upgradient wells exhibit spatial variation; when statistical limits constructed from upgradient wells would not be conservative from a regulatory

perspective; and when downgradient water quality is unimpacted compared to upgradient water quality for the same parameter.

The ANOVA identified no variation among upgradient well data for fluoride, making this constituent eligible for interwell analyses. Variation was noted for boron, calcium, chloride, pH, sulfate, and TDS. While data were further tested for intrawell eligibility during the screening, interwell methods will be used for all Appendix III constituents in accordance with Georgia EPD requirements.

Evaluation of Appendix III Parameters – January/February 2024

Interwell Prediction Limits

Interwell prediction limits, combined with a 1-of-2 resample plan, were constructed using all historical upgradient well data through January/February 2024 (Figure D). Background (upgradient) well data were reassessed for potential outliers during this analysis and no new values were flagged. Interwell prediction limits pool upgradient well data to establish a background limit for an individual constituent. As mentioned above, data from abandoned upgradient wells BRGWA-12I and BRGWA-12S are included in calculations for interwell prediction limits. The January/February 2024 sample from each downgradient well is compared to the background limit to determine whether initial exceedances are present.

In the event of an initial exceedance of compliance well data, the 1-of-2 resample plan allows for collection of one additional sample to determine whether the initial exceedance is confirmed. When resamples confirm the initial exceedance, a statistically significant increase is identified, and further research would be required to identify the cause of the exceedance (i.e., impact from the site, natural variation, or an off-site source). If the resample falls within the statistical limit, the initial exceedance is considered to be a false positive result; therefore, no exceedance is noted and no further action is necessary. If no resample is collected, the original result is considered a confirmed exceedance. Prediction limit exceedances were noted for several Appendix III parameters. Exceedances were identified for the following well/constituent pairs:

- Boron: BRGWC-25I, BRGWC-27I, BRGWC-29I, BRGWC-30I, BRGWC-32S, BRGWC-47, BRGWC-50, and BRGWC-52I
- Calcium: BRGWC-25I, BRGWC-27I, BRGWC-29I, BRGWC-30I, BRGWC-32S, BRGWC-45, BRGWC-47, BRGWC-50, and BRGWC-52I

- Chloride: BRGWC-25I, BRGWC-29I, BRGWC-45, BRGWC-50, and BRGWC-52I
- pH (lower limit): BRGWC-29I and BRGWC-50
- Sulfate: BRGWC-25I, BRGWC-27I, BRGWC-29I, BRGWC-30I, BRGWC-32S, BRGWC-45, BRGWC-47, BRGWC-50, and BRGWC-52I
- TDS: BRGWC-25I, BRGWC-27I, BRGWC-29I, BRGWC-30I, BRGWC-32S, BRGWC-45, BRGWC-47, BRGWC-50, and BRGWC-52I

Trend Test Evaluation – Appendix III

When prediction limit exceedances are identified in downgradient wells, data are further evaluated using the Sen's Slope/Mann Kendall trend test to determine whether concentrations are statistically increasing, decreasing, or stable at the 99% confidence level (Figure E). Upgradient wells are included in the trend analyses to identify whether similar patterns exist upgradient of the site which is an indication of variability in groundwater unrelated to practices at the site. A summary of the trend test results follows this letter and statistically significant trends were identified for the following well/constituent pairs:

Increasing:

- Boron: BRGWC-47
- Calcium: BRGWA-2S, BRGWA-6S (both upgradient), and BRGWC-30I
- Fluoride: BRGWA-5I
- Sulfate: BRGWC-30I
- TDS: BRGWC-30I

Decreasing:

- Boron: BRGWA-2I (upgradient) and BRGWC-29I
- Calcium: BRGWA-23S (upgradient), BRGWC-27I, and BRGWC-45
- Chloride: BRGWA-12I (upgradient), BRGWA-23S (upgradient), BRGWA-5I (upgradient), BRGWA-5S (upgradient), BRGWC-45, BRGWC-50, and BRGWC-52I
- pH: BRGWA-2I, BRGWA-2S, and BRGWA-5S (all three upgradient)
- Sulfate: BRGWA-12I (upgradient), BRGWA-12S (upgradient), BRGWA-23S (upgradient), BRGWC-25I, BRGWC-27I, BRGWC-32S, and BRGWC-50
- TDS: BRGWA-23S, BRGWA-5S (both upgradient), BRGWC-25I, BRGWC-27I, BRGWC-32S, BRGWC-45, and BRGWC-50

Evaluation of Appendix IV Parameters – January/February 2024

For Appendix IV parameters, confidence intervals for each downgradient well/constituent pair were compared against corresponding Groundwater Protection Standards (GWPS). GWPS were developed as described below. Well/constituent pairs containing 100% non-detects do not require analysis. Data from upgradient wells for Appendix IV parameters are reassessed for outliers during each analysis. No new values were flagged and a summary of previously flagged outliers follows this report (Figure C).

Interwell Upper Tolerance Limits

Interwell tolerance limits were used to calculate site-specific background limits from all available pooled upgradient well data through January/February 2024 for Appendix IV constituents (Figure F). Parametric tolerance limits are calculated, with a target of 95% confidence and 95% coverage, when data follow a normal or transformed-normal distribution, such as for combined radium 226 + 228. When data contained greater than 50% non-detects or did not follow a normal or transformed-normal distribution, non-parametric tolerance limits were constructed using the highest background measurement. The confidence and coverage levels for nonparametric tolerance limits are dependent upon the number of background samples.

Groundwater Protection Standards

The background limits were then used when determining the groundwater protection standard (GWPS) under 40 CFR §257.95(h) and Georgia EPD Rule 391-3-4-.10(6)(a). On July 30, 2018, US EPA revised the Federal CCR rule updating GWPS for cobalt, lead, lithium, and molybdenum as described above in 40 CFR §257.95(h)(2). Effective on February 22, 2022, Georgia EPD incorporated the updated GWPS into the current Georgia EPD Rules for Solid Waste Management 391-3-4-.10(6)(a). In accordance with the updated Rules, the GWPS is:

- The maximum contaminant level (MCL) established under §141.62 and §141.66 of this title
- Where an MCL has not been established for a constituent, Federal and State CCR Rules specify levels for cobalt (0.006 mg/L), lead (0.015 mg/L), lithium (0.040 mg/L), and molybdenum (0.100 mg/L)
- The respective background level for a constituent when the background level is higher than the MCL or Federal CCR Rule identified GWPS

Following Georgia EPD Rule requirements and the Federal CCR requirements, GWPS were established for statistical comparison of Appendix IV constituents for this sample event

(Figure G). Note that due to the steady increase in concentrations for antimony at upgradient well BRGWA-12I, the MCL was used in lieu of the Background limit for antimony to maintain a GWPS that is conservative from a regulatory perspective.

Confidence Intervals

To complete the statistical comparison to GWPS, confidence intervals were constructed for each of the Appendix IV constituents in each downgradient well with detections (Figure H). These intervals were constructed as either parametric or nonparametric confidence intervals depending on the data distribution and percentage of non-detects. When data followed a normal or transformed-normal distribution, parametric confidence intervals were used for Appendix IV parameters. Nonparametric confidence intervals, which use the highest and lowest values in background as interval limits, were constructed when data did not follow a normal or transformed-normal distribution or when there were greater than 50% non-detects. The lower confidence limit, which is constructed with 99% confidence for parametric confidence intervals, is compared to the GWPS prepared as described above.

Note that due to the limited sample size, the lower confidence limit of a parametric confidence interval resulted in a negative number for combined radium 226 + 228 at assessment well PZ-58I and PZ-64I. Therefore, non-parametric confidence intervals, which are bound by reported high and low measurements within a given well when n<=8, were constructed for these particular cases and follows the confidence intervals (Figure H). This is a more conservative approach in that the lower confidence limit reflects the lowest reported measurement in the data.

When evaluating the entire record of data for selenium at downgradient well BRGWC-32S and beryllium at downgradient well BRGWC-50, steady increasing trends in concentrations since 2019 for selenium and since 2020 for beryllium were noted. Therefore, the confidence intervals evaluate data since 2019 and 2020, respectively, for these well/constituent pairs (USEPA Unified Guidance, 2009, Chapter 7). Only when the entire confidence interval is above a GWPS is the downgradient well/constituent pair considered to exceed its respective standard. If there is an exceedance of the GWPS, a statistically significant level (SSL) exceedance is identified.

Statistical exceedances were identified for the following well/constituent pairs:

- Beryllium: BRGWC-50, PZ-58I, and PZ-60I
- Cadmium: BRGWC-50 and PZ-60I
- Cobalt: BRGWC-50, PZ-51I, PZ-58I, PZ-60I, PZ-61I, PZ-63I, and PZ-64I

- Lithium: PZ-60I
- Selenium: BRGWC-32S

Trend Test Evaluation – Appendix IV

Data at wells with confidence interval exceedances are further evaluated using the Sen's Slope/Mann Kendall trend test at the 95% confidence level to determine whether concentrations are statistically increasing, decreasing, or stable (Figure I). Although the trend tests for Assessment monitoring pairs were previously evaluated using 99% confidence, the 95% confidence level more rapidly identifies statistically significant trends. Additionally, the 95% confidence level is recommended in cases with limited sample sizes and, particularly, for new assessment wells. Upgradient wells are included in the trend analyses to identify whether similar patterns exist upgradient of the site for the same constituents. When trends are present in upgradient wells, it is an indication of variability in groundwater quality unrelated to practices at the site. Note that the trend tests have meaningful results once well/constituent pairs have greater than 5 samples. A summary of the Appendix IV trend test results follows this letter. The following statistically significant trends were identified:

Increasing
- Beryllium: BRGWC-50
- Cobalt: PZ-58I and PZ-61I
- Lithium: BRGWA-6S (upgradient)
- Selenium: BRGWC-32S

Decreasing
- Cadmium: BRGWC-50
- Cobalt: BRGWA-2S, BRGWA-5I, and BRGWA-23S (all upgradient)

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for Plant Branch Ponds B, C, D. If you have any questions or comments, please feel free to contact us.

For Groundwater Stats Consulting,

Abdul Diane
Groundwater Analyst

Andrew T. Collins
Project Manager

100% Non-Detects: Appendix IV Downgradient & Assessment

Analysis Run 4/5/2024 1:31 PM View: Pond BCD Appendix IV - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

Antimony (mg/L)
BRGWC-25I, BRGWC-27I, PZ-44, PZ-58I, PZ-60I, PZ-61I, PZ-63I, PZ-64I

Arsenic (mg/L)
PZ-63I

Beryllium (mg/L)
BRGWC-25I, BRGWC-30I, BRGWC-32S, BRGWC-52I, PZ-44, PZ-51D

Cadmium (mg/L)
BRGWC-25I, BRGWC-29I, BRGWC-52I, PZ-44, PZ-50D, PZ-51D, PZ-63I

Chromium (mg/L)
PZ-44, PZ-50D, PZ-51D, PZ-58I, PZ-60I, PZ-63I, PZ-64I

Lead (mg/L)
BRGWC-32S, PZ-44, PZ-60I, PZ-63I, PZ-64I

Lithium (mg/L)
BRGWC-25I

Mercury (mg/L)
BRGWC-45, BRGWC-47, BRGWC-50, BRGWC-52I, PZ-44, PZ-50D, PZ-51D, PZ-60I, PZ-61I, PZ-63I, PZ-64I

Molybdenum (mg/L)
BRGWC-29I, BRGWC-32S, PZ-44, PZ-58I, PZ-60I, PZ-61I

Selenium (mg/L)
BRGWC-52I, PZ-44, PZ-50D, PZ-51D, PZ-51I, PZ-63I

Thallium (mg/L)
BRGWC-25I, BRGWC-27I, BRGWC-30I, BRGWC-32S, BRGWC-45, BRGWC-47, BRGWC-50, BRGWC-52I, PZ-44, PZ-50D, PZ-51D, PZ-51I, PZ-58I, PZ-60I, PZ-61I, PZ-63I, PZ-64I

Date Ranges

Date: 4/1/2024 11:47 AM

Plant Branch Data: Plant Branch AP

Beryllium (mg/L)

BRGWC-50 overall:3/4/2020-2/14/2024

Selenium (mg/L)

BRGWC-32S overall:8/27/2019-2/10/2024

Appendix III - Interwell Prediction Limits - Significant Results

Plant Branch Data: Plant Branch AP Printed 4/3/2024, 1:41 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	BRGWC-25I	0.068	n/a	2/14/2024	1.61	Yes	148	n/a	n/a	53.38	n/a	n/a	0.00009026	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-27I	0.068	n/a	2/14/2024	1.17	Yes	148	n/a	n/a	53.38	n/a	n/a	0.00009026	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-29I	0.068	n/a	2/14/2024	1.11	Yes	148	n/a	n/a	53.38	n/a	n/a	0.00009026	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-30I	0.068	n/a	2/12/2024	2.36	Yes	148	n/a	n/a	53.38	n/a	n/a	0.00009026	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-32S	0.068	n/a	2/12/2024	1.23	Yes	148	n/a	n/a	53.38	n/a	n/a	0.00009026	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-47	0.068	n/a	2/12/2024	0.618	Yes	148	n/a	n/a	53.38	n/a	n/a	0.00009026	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-50	0.068	n/a	2/16/2024	0.389	Yes	148	n/a	n/a	53.38	n/a	n/a	0.00009026	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-52I	0.068	n/a	2/16/2024	1.61	Yes	148	n/a	n/a	53.38	n/a	n/a	0.00009026	NP Inter (NDs) 1 of 2
Calcium (mg/L)	BRGWC-25I	24	n/a	2/14/2024	67.4	Yes	150	n/a	n/a	4	n/a	n/a	0.00008795	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-27I	24	n/a	2/14/2024	60	Yes	150	n/a	n/a	4	n/a	n/a	0.00008795	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-29I	24	n/a	2/14/2024	89.3	Yes	150	n/a	n/a	4	n/a	n/a	0.00008795	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-30I	24	n/a	2/12/2024	441	Yes	150	n/a	n/a	4	n/a	n/a	0.00008795	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-32S	24	n/a	2/12/2024	47.4	Yes	150	n/a	n/a	4	n/a	n/a	0.00008795	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-45	24	n/a	2/14/2024	32.8	Yes	150	n/a	n/a	4	n/a	n/a	0.00008795	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-47	24	n/a	2/12/2024	340	Yes	150	n/a	n/a	4	n/a	n/a	0.00008795	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-50	24	n/a	2/16/2024	224	Yes	150	n/a	n/a	4	n/a	n/a	0.00008795	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-52I	24	n/a	2/14/2024	36.4	Yes	150	n/a	n/a	4	n/a	n/a	0.00008795	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-25I	5.8	n/a	2/1/2024	8.73	Yes	150	n/a	n/a	0	n/a	n/a	0.00008795	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-29I	5.8	n/a	2/1/2024	7.94	Yes	150	n/a	n/a	0	n/a	n/a	0.00008795	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-45	5.8	n/a	2/9/2024	17.2	Yes	150	n/a	n/a	0	n/a	n/a	0.00008795	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-50	5.8	n/a	2/9/2024	15.4	Yes	150	n/a	n/a	0	n/a	n/a	0.00008795	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-52I	5.8	n/a	2/2/2024	6.3	Yes	150	n/a	n/a	0	n/a	n/a	0.00008795	NP Inter (normality) 1 of 2
pH, Field (S.U.)	BRGWC-29I	7.031	5.571	1/31/2024	4.37	Yes	166	6.301	0.3806	0	None	No	0.0004179	Param Inter 1 of 2
pH, Field (S.U.)	BRGWC-50	7.031	5.571	2/1/2024	5.14	Yes	166	6.301	0.3806	0	None	No	0.0004179	Param Inter 1 of 2
Sulfate (mg/L)	BRGWC-25I	89	n/a	2/2/2024	169	Yes	150	n/a	n/a	12.67	n/a	n/a	0.00008795	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-27I	89	n/a	2/3/2024	155	Yes	150	n/a	n/a	12.67	n/a	n/a	0.00008795	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-29I	89	n/a	2/2/2024	328	Yes	150	n/a	n/a	12.67	n/a	n/a	0.00008795	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-30I	89	n/a	2/1/2024	1210	Yes	150	n/a	n/a	12.67	n/a	n/a	0.00008795	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-32S	89	n/a	2/1/2024	246	Yes	150	n/a	n/a	12.67	n/a	n/a	0.00008795	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-45	89	n/a	2/9/2024	110	Yes	150	n/a	n/a	12.67	n/a	n/a	0.00008795	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-47	89	n/a	2/1/2024	1360	Yes	150	n/a	n/a	12.67	n/a	n/a	0.00008795	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-50	89	n/a	2/9/2024	1310	Yes	150	n/a	n/a	12.67	n/a	n/a	0.00008795	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-52I	89	n/a	2/2/2024	145	Yes	150	n/a	n/a	12.67	n/a	n/a	0.00008795	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-25I	185	n/a	2/7/2024	391	Yes	149	102.9	42.77	1.342	None	No	0.0008358	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-27I	185	n/a	2/7/2024	299	Yes	149	102.9	42.77	1.342	None	No	0.0008358	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-29I	185	n/a	2/7/2024	535	Yes	149	102.9	42.77	1.342	None	No	0.0008358	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-30I	185	n/a	2/6/2024	1970	Yes	149	102.9	42.77	1.342	None	No	0.0008358	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-32S	185	n/a	2/6/2024	418	Yes	149	102.9	42.77	1.342	None	No	0.0008358	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-45	185	n/a	2/8/2024	255	Yes	149	102.9	42.77	1.342	None	No	0.0008358	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-47	185	n/a	2/6/2024	2160	Yes	149	102.9	42.77	1.342	None	No	0.0008358	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-50	185	n/a	2/8/2024	1970	Yes	149	102.9	42.77	1.342	None	No	0.0008358	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-52I	185	n/a	2/8/2024	303	Yes	149	102.9	42.77	1.342	None	No	0.0008358	Param Inter 1 of 2

Appendix III - Interwell Prediction Limits - All Results

Plant Branch Data: Plant Branch AP Printed 4/3/2024, 1:41 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	**BRGWC-25I**	**0.068**	**n/a**	**2/14/2024**	**1.61**	**Yes**	**148**	**n/a**	**n/a**	**53.38**	**n/a**	**n/a**	**0.00009026**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**BRGWC-27I**	**0.068**	**n/a**	**2/14/2024**	**1.17**	**Yes**	**148**	**n/a**	**n/a**	**53.38**	**n/a**	**n/a**	**0.00009026**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**BRGWC-29I**	**0.068**	**n/a**	**2/14/2024**	**1.11**	**Yes**	**148**	**n/a**	**n/a**	**53.38**	**n/a**	**n/a**	**0.00009026**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**BRGWC-30I**	**0.068**	**n/a**	**2/12/2024**	**2.36**	**Yes**	**148**	**n/a**	**n/a**	**53.38**	**n/a**	**n/a**	**0.00009026**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**BRGWC-32S**	**0.068**	**n/a**	**2/12/2024**	**1.23**	**Yes**	**148**	**n/a**	**n/a**	**53.38**	**n/a**	**n/a**	**0.00009026**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	BRGWC-45	0.068	n/a	2/14/2024	0.0355	No	148	n/a	n/a	53.38	n/a	n/a	0.00009026	NP Inter (NDs) 1 of 2
Boron (mg/L)	**BRGWC-47**	**0.068**	**n/a**	**2/12/2024**	**0.618**	**Yes**	**148**	**n/a**	**n/a**	**53.38**	**n/a**	**n/a**	**0.00009026**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**BRGWC-50**	**0.068**	**n/a**	**2/16/2024**	**0.389**	**Yes**	**148**	**n/a**	**n/a**	**53.38**	**n/a**	**n/a**	**0.00009026**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**BRGWC-52I**	**0.068**	**n/a**	**2/16/2024**	**1.61**	**Yes**	**148**	**n/a**	**n/a**	**53.38**	**n/a**	**n/a**	**0.00009026**	**NP Inter (NDs) 1 of 2**
Calcium (mg/L)	**BRGWC-25I**	**24**	**n/a**	**2/14/2024**	**67.4**	**Yes**	**150**	**n/a**	**n/a**	**4**	**n/a**	**n/a**	**0.00008795**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**BRGWC-27I**	**24**	**n/a**	**2/14/2024**	**60**	**Yes**	**150**	**n/a**	**n/a**	**4**	**n/a**	**n/a**	**0.00008795**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**BRGWC-29I**	**24**	**n/a**	**2/14/2024**	**89.3**	**Yes**	**150**	**n/a**	**n/a**	**4**	**n/a**	**n/a**	**0.00008795**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**BRGWC-30I**	**24**	**n/a**	**2/12/2024**	**441**	**Yes**	**150**	**n/a**	**n/a**	**4**	**n/a**	**n/a**	**0.00008795**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**BRGWC-32S**	**24**	**n/a**	**2/12/2024**	**47.4**	**Yes**	**150**	**n/a**	**n/a**	**4**	**n/a**	**n/a**	**0.00008795**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**BRGWC-45**	**24**	**n/a**	**2/14/2024**	**32.8**	**Yes**	**150**	**n/a**	**n/a**	**4**	**n/a**	**n/a**	**0.00008795**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**BRGWC-47**	**24**	**n/a**	**2/12/2024**	**340**	**Yes**	**150**	**n/a**	**n/a**	**4**	**n/a**	**n/a**	**0.00008795**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**BRGWC-50**	**24**	**n/a**	**2/16/2024**	**224**	**Yes**	**150**	**n/a**	**n/a**	**4**	**n/a**	**n/a**	**0.00008795**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**BRGWC-52I**	**24**	**n/a**	**2/14/2024**	**36.4**	**Yes**	**150**	**n/a**	**n/a**	**4**	**n/a**	**n/a**	**0.00008795**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**BRGWC-25I**	**5.8**	**n/a**	**2/1/2024**	**8.73**	**Yes**	**150**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00008795**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	BRGWC-27I	5.8	n/a	2/1/2024	4.05	No	150	n/a	n/a	0	n/a	n/a	0.00008795	NP Inter (normality) 1 of 2
Chloride (mg/L)	**BRGWC-29I**	**5.8**	**n/a**	**2/1/2024**	**7.94**	**Yes**	**150**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00008795**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	BRGWC-30I	5.8	n/a	2/1/2024	3.52	No	150	n/a	n/a	0	n/a	n/a	0.00008795	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-32S	5.8	n/a	1/31/2024	4.1	No	150	n/a	n/a	0	n/a	n/a	0.00008795	NP Inter (normality) 1 of 2
Chloride (mg/L)	**BRGWC-45**	**5.8**	**n/a**	**2/9/2024**	**17.2**	**Yes**	**150**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00008795**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	BRGWC-47	5.8	n/a	2/1/2024	4.74	No	150	n/a	n/a	0	n/a	n/a	0.00008795	NP Inter (normality) 1 of 2
Chloride (mg/L)	**BRGWC-50**	**5.8**	**n/a**	**2/9/2024**	**15.4**	**Yes**	**150**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00008795**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**BRGWC-52I**	**5.8**	**n/a**	**2/2/2024**	**6.3**	**Yes**	**150**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00008795**	**NP Inter (normality) 1 of 2**
Fluoride (mg/L)	BRGWC-25I	0.42	n/a	2/1/2024	0.221	No	164	n/a	n/a	48.78	n/a	n/a	0.00007326	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-27I	0.42	n/a	2/1/2024	0.222	No	164	n/a	n/a	48.78	n/a	n/a	0.00007326	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-29I	0.42	n/a	2/1/2024	0.0968J	No	164	n/a	n/a	48.78	n/a	n/a	0.00007326	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-30I	0.42	n/a	2/1/2024	0.169	No	164	n/a	n/a	48.78	n/a	n/a	0.00007326	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-32S	0.42	n/a	1/31/2024	0.207	No	164	n/a	n/a	48.78	n/a	n/a	0.00007326	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-45	0.42	n/a	2/2/2024	0.126	No	164	n/a	n/a	48.78	n/a	n/a	0.00007326	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-47	0.42	n/a	2/1/2024	0.11	No	164	n/a	n/a	48.78	n/a	n/a	0.00007326	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-50	0.42	n/a	2/2/2024	0.416	No	164	n/a	n/a	48.78	n/a	n/a	0.00007326	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-52I	0.42	n/a	2/2/2024	0.215	No	164	n/a	n/a	48.78	n/a	n/a	0.00007326	NP Inter (normality) 1 of 2
pH, Field (S.U.)	BRGWC-25I	7.031	5.571	1/31/2024	6.31	No	166	6.301	0.3806	0	None	No	0.0004179	Param Inter 1 of 2
pH, Field (S.U.)	BRGWC-27I	7.031	5.571	1/31/2024	5.83	No	166	6.301	0.3806	0	None	No	0.0004179	Param Inter 1 of 2
pH, Field (S.U.)	**BRGWC-29I**	**7.031**	**5.571**	**1/31/2024**	**4.37**	**Yes**	**166**	**6.301**	**0.3806**	**0**	**None**	**No**	**0.0004179**	**Param Inter 1 of 2**
pH, Field (S.U.)	BRGWC-30I	7.031	5.571	1/30/2024	6.39	No	166	6.301	0.3806	0	None	No	0.0004179	Param Inter 1 of 2
pH, Field (S.U.)	BRGWC-32S	7.031	5.571	1/30/2024	5.98	No	166	6.301	0.3806	0	None	No	0.0004179	Param Inter 1 of 2
pH, Field (S.U.)	BRGWC-45	7.031	5.571	2/1/2024	5.85	No	166	6.301	0.3806	0	None	No	0.0004179	Param Inter 1 of 2
pH, Field (S.U.)	BRGWC-47	7.031	5.571	1/30/2024	5.73	No	166	6.301	0.3806	0	None	No	0.0004179	Param Inter 1 of 2
pH, Field (S.U.)	**BRGWC-50**	**7.031**	**5.571**	**2/1/2024**	**5.14**	**Yes**	**166**	**6.301**	**0.3806**	**0**	**None**	**No**	**0.0004179**	**Param Inter 1 of 2**
pH, Field (S.U.)	BRGWC-52I	7.031	5.571	2/1/2024	6.3	No	166	6.301	0.3806	0	None	No	0.0004179	Param Inter 1 of 2
Sulfate (mg/L)	**BRGWC-25I**	**89**	**n/a**	**2/2/2024**	**169**	**Yes**	**150**	**n/a**	**n/a**	**12.67**	**n/a**	**n/a**	**0.00008795**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**BRGWC-27I**	**89**	**n/a**	**2/3/2024**	**155**	**Yes**	**150**	**n/a**	**n/a**	**12.67**	**n/a**	**n/a**	**0.00008795**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**BRGWC-29I**	**89**	**n/a**	**2/2/2024**	**328**	**Yes**	**150**	**n/a**	**n/a**	**12.67**	**n/a**	**n/a**	**0.00008795**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**BRGWC-30I**	**89**	**n/a**	**2/1/2024**	**1210**	**Yes**	**150**	**n/a**	**n/a**	**12.67**	**n/a**	**n/a**	**0.00008795**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**BRGWC-32S**	**89**	**n/a**	**2/1/2024**	**246**	**Yes**	**150**	**n/a**	**n/a**	**12.67**	**n/a**	**n/a**	**0.00008795**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**BRGWC-45**	**89**	**n/a**	**2/9/2024**	**110**	**Yes**	**150**	**n/a**	**n/a**	**12.67**	**n/a**	**n/a**	**0.00008795**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**BRGWC-47**	**89**	**n/a**	**2/1/2024**	**1360**	**Yes**	**150**	**n/a**	**n/a**	**12.67**	**n/a**	**n/a**	**0.00008795**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**BRGWC-50**	**89**	**n/a**	**2/9/2024**	**1310**	**Yes**	**150**	**n/a**	**n/a**	**12.67**	**n/a**	**n/a**	**0.00008795**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**BRGWC-52I**	**89**	**n/a**	**2/2/2024**	**145**	**Yes**	**150**	**n/a**	**n/a**	**12.67**	**n/a**	**n/a**	**0.00008795**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids (mg/L)	**BRGWC-25I**	**185**	**n/a**	**2/7/2024**	**391**	**Yes**	**149**	**102.9**	**42.77**	**1.342**	**None**	**No**	**0.0008358**	**Param Inter 1 of 2**
Total Dissolved Solids (mg/L)	**BRGWC-27I**	**185**	**n/a**	**2/7/2024**	**299**	**Yes**	**149**	**102.9**	**42.77**	**1.342**	**None**	**No**	**0.0008358**	**Param Inter 1 of 2**
Total Dissolved Solids (mg/L)	**BRGWC-29I**	**185**	**n/a**	**2/7/2024**	**535**	**Yes**	**149**	**102.9**	**42.77**	**1.342**	**None**	**No**	**0.0008358**	**Param Inter 1 of 2**
Total Dissolved Solids (mg/L)	**BRGWC-30I**	**185**	**n/a**	**2/6/2024**	**1970**	**Yes**	**149**	**102.9**	**42.77**	**1.342**	**None**	**No**	**0.0008358**	**Param Inter 1 of 2**
Total Dissolved Solids (mg/L)	**BRGWC-32S**	**185**	**n/a**	**2/6/2024**	**418**	**Yes**	**149**	**102.9**	**42.77**	**1.342**	**None**	**No**	**0.0008358**	**Param Inter 1 of 2**
Total Dissolved Solids (mg/L)	**BRGWC-45**	**185**	**n/a**	**2/8/2024**	**255**	**Yes**	**149**	**102.9**	**42.77**	**1.342**	**None**	**No**	**0.0008358**	**Param Inter 1 of 2**
Total Dissolved Solids (mg/L)	**BRGWC-47**	**185**	**n/a**	**2/6/2024**	**2160**	**Yes**	**149**	**102.9**	**42.77**	**1.342**	**None**	**No**	**0.0008358**	**Param Inter 1 of 2**
Total Dissolved Solids (mg/L)	**BRGWC-50**	**185**	**n/a**	**2/8/2024**	**1970**	**Yes**	**149**	**102.9**	**42.77**	**1.342**	**None**	**No**	**0.0008358**	**Param Inter 1 of 2**
Total Dissolved Solids (mg/L)	**BRGWC-52I**	**185**	**n/a**	**2/8/2024**	**303**	**Yes**	**149**	**102.9**	**42.77**	**1.342**	**None**	**No**	**0.0008358**	**Param Inter 1 of 2**

Appendix III - Trend Test Summary - Significant Results

Plant Branch Data: Plant Branch AP Printed 4/3/2024, 1:49 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	BRGWA-2I (bg)	-0.0007276	-90	-74	Yes	19	31.58	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWC-29I	-0.1003	-84	-74	Yes	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWC-47	0.0367	92	81	Yes	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWA-23S (bg)	-1.347	-108	-74	Yes	19	5.263	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWA-2S (bg)	0.1738	81	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWA-6S (bg)	0.1302	96	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWC-27I	-2.727	-79	-74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWC-30I	42.35	148	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWC-45	-1.839	-97	-81	Yes	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWA-12I (bg)	-0.1919	-99	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWA-23S (bg)	-0.2086	-111	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWA-5I (bg)	-0.1426	-86	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWA-5S (bg)	-0.07103	-87	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWC-45	-7.588	-120	-81	Yes	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWC-50	-1.953	-123	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWC-52I	-0.194	-86	-74	Yes	19	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWA-2I (bg)	-0.07041	-101	-87	Yes	21	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWA-2S (bg)	-0.03315	-107	-87	Yes	21	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWA-5S (bg)	-0.05271	-116	-87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-12I (bg)	-0.2108	-113	-68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-12S (bg)	-0.126	-88	-68	Yes	18	16.67	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-23S (bg)	-9.199	-93	-74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-25I	-22.87	-93	-74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-27I	-21.39	-133	-74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-30I	99.95	109	74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-32S	-27.29	-101	-74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-50	-74.11	-69	-68	Yes	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWA-23S (bg)	-12.44	-102	-74	Yes	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWA-5S (bg)	-7.648	-101	-74	Yes	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-25I	-31.49	-103	-74	Yes	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-27I	-22.83	-113	-74	Yes	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-30I	170.8	125	74	Yes	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-32S	-38.3	-118	-74	Yes	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-45	-22.13	-130	-81	Yes	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-50	-66.21	-89	-74	Yes	19	0	n/a	n/a	0.01	NP

Appendix III - Trend Test Summary - All Results

Plant Branch Data: Plant Branch AP Printed 4/3/2024, 1:49 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	BRGWA-12I (bg)	-0.00006578	-7	-63	No	17	17.65	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWA-12S (bg)	0	-7	-63	No	17	76.47	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWA-23S (bg)	0.001174	18	74	No	19	10.53	n/a	n/a	0.01	NP
Boron (mg/L)	**BRGWA-2I (bg)**	**-0.0007276**	**-90**	**-74**	**Yes**	**19**	**31.58**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	BRGWA-2S (bg)	0	11	74	No	19	84.21	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWA-5I (bg)	0	-4	-74	No	19	73.68	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWA-5S (bg)	0	-12	-74	No	19	57.89	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWA-6S (bg)	0	-12	-74	No	19	73.68	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWC-25I	-0.02411	-24	-74	No	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWC-27I	-0.06637	-66	-81	No	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	**BRGWC-29I**	**-0.1003**	**-84**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	BRGWC-30I	0.06473	64	81	No	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWC-32S	-0.05043	-61	-81	No	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	**BRGWC-47**	**0.0367**	**92**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	BRGWC-50	0.009387	58	74	No	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWC-52I	0.04929	53	74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWA-12I (bg)	-0.2348	-12	-68	No	18	5.556	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWA-12S (bg)	0.1273	28	68	No	18	5.556	n/a	n/a	0.01	NP
Calcium (mg/L)	**BRGWA-23S (bg)**	**-1.347**	**-108**	**-74**	**Yes**	**19**	**5.263**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	BRGWA-2I (bg)	0.2667	30	74	No	19	5.263	n/a	n/a	0.01	NP
Calcium (mg/L)	**BRGWA-2S (bg)**	**0.1738**	**81**	**74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	BRGWA-5I (bg)	0.1543	37	74	No	19	5.263	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWA-5S (bg)	-0.4984	-64	-74	No	19	5.263	n/a	n/a	0.01	NP
Calcium (mg/L)	**BRGWA-6S (bg)**	**0.1302**	**96**	**74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	BRGWC-25I	-2.976	-59	-74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**BRGWC-27I**	**-2.727**	**-79**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	BRGWC-29I	-2.999	-39	-74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**BRGWC-30I**	**42.35**	**148**	**74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	BRGWC-32S	-3.032	-71	-74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**BRGWC-45**	**-1.839**	**-97**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	BRGWC-47	1.74	22	81	No	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWC-50	-4.717	-64	-74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWC-52I	-0.4566	-19	-68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**BRGWA-12I (bg)**	**-0.1919**	**-99**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	BRGWA-12S (bg)	0.06545	54	68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**BRGWA-23S (bg)**	**-0.2086**	**-111**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	BRGWA-2I (bg)	-0.02052	-27	-74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWA-2S (bg)	0	13	74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**BRGWA-5I (bg)**	**-0.1426**	**-86**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**BRGWA-5S (bg)**	**-0.07103**	**-87**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	BRGWA-6S (bg)	0	-3	-74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWC-25I	-0.3172	-36	-74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWC-29I	-0.1197	-41	-74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**BRGWC-45**	**-7.588**	**-120**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**BRGWC-50**	**-1.953**	**-123**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**BRGWC-52I**	**-0.194**	**-86**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (S.U.)	BRGWA-12I (bg)	-0.02367	-36	-87	No	21	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWA-12S (bg)	-0.01755	-49	-81	No	20	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWA-23S (bg)	-0.02403	-47	-87	No	21	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	**BRGWA-2I (bg)**	**-0.07041**	**-101**	**-87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (S.U.)	**BRGWA-2S (bg)**	**-0.03315**	**-107**	**-87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (S.U.)	BRGWA-5I (bg)	-0.0131	-41	-87	No	21	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	**BRGWA-5S (bg)**	**-0.05271**	**-116**	**-87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (S.U.)	BRGWA-6S (bg)	-0.01695	-28	-81	No	20	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWC-29I	-0.012	-34	-87	No	21	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWC-50	-0.03335	-70	-92	No	22	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**BRGWA-12I (bg)**	**-0.2108**	**-113**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**BRGWA-12S (bg)**	**-0.126**	**-88**	**-68**	**Yes**	**18**	**16.67**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**BRGWA-23S (bg)**	**-9.199**	**-93**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	BRGWA-2I (bg)	-0.2264	-53	-74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-2S (bg)	-0.01093	-20	-74	No	19	31.58	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-5I (bg)	-0.2385	-67	-74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-5S (bg)	-0.03629	-55	-74	No	19	31.58	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-6S (bg)	-0.01177	-27	-74	No	19	21.05	n/a	n/a	0.01	NP
Sulfate (mg/L)	**BRGWC-25I**	**-22.87**	**-93**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**BRGWC-27I**	**-21.39**	**-133**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	BRGWC-29I	-20.47	-56	-74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**BRGWC-30I**	**99.95**	**109**	**74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**

Appendix III - Trend Test Summary - All Results

Plant Branch Data: Plant Branch AP Printed 4/3/2024, 1:49 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Sulfate (mg/L)	**BRGWC-32S**	**-27.29**	**-101**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	BRGWC-45	-2.459	-46	-81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-47	-43.58	-80	-81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**BRGWC-50**	**-74.11**	**-69**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	BRGWC-52I	-6.139	-62	-74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWA-12I (bg)	-5.117	-61	-68	No	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWA-12S (bg)	-5.699	-57	-68	No	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	**BRGWA-23S (bg)**	**-12.44**	**-102**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	BRGWA-2I (bg)	-8.655	-62	-74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWA-2S (bg)	-0.738	-7	-74	No	19	5.263	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWA-5I (bg)	-3.436	-46	-74	No	19	5.263	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	**BRGWA-5S (bg)**	**-7.648**	**-101**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	BRGWA-6S (bg)	-2.289	-26	-68	No	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	**BRGWC-25I**	**-31.49**	**-103**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**BRGWC-27I**	**-22.83**	**-113**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	BRGWC-29I	-43.05	-69	-74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	**BRGWC-30I**	**170.8**	**125**	**74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**BRGWC-32S**	**-38.3**	**-118**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**BRGWC-45**	**-22.13**	**-130**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	BRGWC-47	-34.43	-67	-74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	**BRGWC-50**	**-66.21**	**-89**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	BRGWC-52I	-10.38	-61	-74	No	19	0	n/a	n/a	0.01	NP

Upper Tolerance Limits Summary Table

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 4/5/2024, 1:44 PM

Constituent	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Antimony (mg/L)	0.0245	n/a	n/a	n/a	n/a	156	83.97	n/a	0.0003349	NP Inter(NDs)
Arsenic (mg/L)	0.0027	n/a	n/a	n/a	n/a	156	77.56	n/a	0.0003349	NP Inter(NDs)
Barium (mg/L)	0.13	n/a	n/a	n/a	n/a	156	0	n/a	0.0003349	NP Inter(normality)
Beryllium (mg/L)	0.0002	n/a	n/a	n/a	n/a	156	100	n/a	0.0003349	NP Inter(NDs)
Cadmium (mg/L)	0.0003	n/a	n/a	n/a	n/a	158	98.73	n/a	0.0003022	NP Inter(NDs)
Chromium (mg/L)	0.016	n/a	n/a	n/a	n/a	156	21.79	n/a	0.0003349	NP Inter(normality)
Cobalt (mg/L)	0.0135	n/a	n/a	n/a	n/a	156	55.13	n/a	0.0003349	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	2.229	n/a	n/a	n/a	n/a	156	0	sqrt(x)	0.05	Inter
Fluoride (mg/L)	0.42	n/a	n/a	n/a	n/a	164	48.78	n/a	0.0002222	NP Inter(normality)
Lead (mg/L)	0.0013	n/a	n/a	n/a	n/a	156	88.46	n/a	0.0003349	NP Inter(NDs)
Lithium (mg/L)	0.089	n/a	n/a	n/a	n/a	156	41.67	n/a	0.0003349	NP Inter(normality)
Mercury (mg/L)	0.00021	n/a	n/a	n/a	n/a	140	89.29	n/a	0.0007609	NP Inter(NDs)
Molybdenum (mg/L)	0.008	n/a	n/a	n/a	n/a	153	75.16	n/a	0.0003906	NP Inter(NDs)
Selenium (mg/L)	0.006	n/a	n/a	n/a	n/a	156	92.31	n/a	0.0003349	NP Inter(NDs)
Thallium (mg/L)	0.0006	n/a	n/a	n/a	n/a	156	100	n/a	0.0003349	NP Inter(NDs)

PLANT BRANCH POND BCD GWPS				
Constituent Name	**MCL**	**CCR-Rule Specified**	**Background Limit**	**GWPS**
Antimony, Total (mg/L)	0.006		0.025	0.006
Arsenic, Total (mg/L)	0.01		0.0027	0.01
Barium, Total (mg/L)	2		0.13	2
Beryllium, Total (mg/L)	0.004		0.0002	0.004
Cadmium, Total (mg/L)	0.005		0.0003	0.005
Chromium, Total (mg/L)	0.1		0.016	0.1
Cobalt, Total (mg/L)	n/a	0.006	0.014	0.014
Combined Radium, Total (pCi/L)	5		2.23	5
Fluoride, Total (mg/L)	4		0.42	4
Lead, Total (mg/L)	n/a	0.015	0.0013	0.015
Lithium, Total (mg/L)	n/a	0.04	0.089	0.089
Mercury, Total (mg/L)	0.002		0.00021	0.002
Molybdenum, Total (mg/L)	n/a	0.1	0.008	0.1
Selenium, Total (mg/L)	0.05		0.006	0.05
Thallium, Total (mg/L)	0.002		0.0006	0.002

**Highlighted cells indicate Background is higher than MCLs*

**MCL = Maximum Contaminant Level*

**CCR = Coal Combustion Residuals*

**GWPS = Groundwater Protection Standard*

***MCL used in lieu of Background limit for Antimony*

Confidence Intervals Summary Table - Significant Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 4/10/2024, 3:58 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Beryllium (mg/L)	**BRGWC-50**	**0.008357**	**0.005451**	**0.004**	**Yes**	**10**	**0.001628**	**0**	**None**	**No**	**0.01**	**Param.**
Beryllium (mg/L)	**PZ-58I**	**0.03855**	**0.02515**	**0.004**	**Yes**	**6**	**0.004876**	**0**	**None**	**No**	**0.01**	**Param.**
Beryllium (mg/L)	**PZ-60I**	**0.07698**	**0.06116**	**0.004**	**Yes**	**6**	**0.005757**	**0**	**None**	**No**	**0.01**	**Param.**
Cadmium (mg/L)	**BRGWC-50**	**0.02754**	**0.01063**	**0.005**	**Yes**	**20**	**0.02392**	**0**	**None**	**ln(x)**	**0.01**	**Param.**
Cadmium (mg/L)	**PZ-60I**	**0.01695**	**0.01408**	**0.005**	**Yes**	**6**	**0.001044**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	**BRGWC-50**	**1.42**	**1.35**	**0.014**	**Yes**	**20**	**0.06161**	**0**	**None**	**No**	**0.01**	**NP (normality)**
Cobalt (mg/L)	**PZ-51I**	**0.0259**	**0.018**	**0.014**	**Yes**	**13**	**0.00604**	**0**	**None**	**No**	**0.01**	**NP (normality)**
Cobalt (mg/L)	**PZ-58I**	**0.592**	**0.397**	**0.014**	**Yes**	**6**	**0.07098**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	**PZ-60I**	**3.826**	**3.401**	**0.014**	**Yes**	**6**	**0.1549**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	**PZ-61I**	**0.7533**	**0.439**	**0.014**	**Yes**	**6**	**0.1144**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	**PZ-63I**	**0.03457**	**0.01783**	**0.014**	**Yes**	**5**	**0.004996**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	**PZ-64I**	**12.08**	**8.176**	**0.014**	**Yes**	**4**	**0.8597**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	**PZ-60I**	**0.1103**	**0.09052**	**0.089**	**Yes**	**6**	**0.007192**	**0**	**None**	**No**	**0.01**	**Param.**
Selenium (mg/L)	**BRGWC-32S**	**0.182**	**0.1028**	**0.05**	**Yes**	**13**	**0.05326**	**0**	**None**	**No**	**0.01**	**Param.**

Confidence Intervals Summary Table - All Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 4/10/2024, 3:59 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	BRGWC-29I	0.001	0.0007	0.006	No	20	0.00006708	95	None	No	0.01	NP (NDs)
Antimony (mg/L)	BRGWC-30I	0.0013	0.001	0.006	No	20	0.00006708	95	None	No	0.01	NP (NDs)
Antimony (mg/L)	BRGWC-32S	0.0014	0.001	0.006	No	20	0.00008944	95	None	No	0.01	NP (NDs)
Antimony (mg/L)	BRGWC-45	0.0012	0.00088	0.006	No	21	0.0005683	66.67	None	No	0.01	NP (NDs)
Antimony (mg/L)	BRGWC-47	0.001	0.00035	0.006	No	21	0.0001418	95.24	None	No	0.01	NP (NDs)
Antimony (mg/L)	BRGWC-50	0.001	0.00092	0.006	No	20	0.0001652	85	None	No	0.01	NP (NDs)
Antimony (mg/L)	BRGWC-52I	0.001	0.00091	0.006	No	20	0.0001303	85	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-50D	0.001	0.00056	0.006	No	7	0.0001663	85.71	None	No	0.008	NP (NDs)
Antimony (mg/L)	PZ-51D	0.0013	0.001	0.006	No	7	0.0001134	85.71	None	No	0.008	NP (NDs)
Antimony (mg/L)	PZ-51I	0.0012	0.001	0.006	No	11	0.0002304	72.73	None	No	0.006	NP (NDs)
Arsenic (mg/L)	BRGWC-25I	0.002	0.00091	0.01	No	20	0.0005428	80	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-27I	0.002	0.0014	0.01	No	20	0.0004174	80	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-29I	0.002	0.0016	0.01	No	20	0.000535	65	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-30I	0.005	0.00283	0.01	No	20	0.00134	80	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-32S	0.002	0.00053	0.01	No	20	0.0003287	95	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-45	0.0021	0.00096	0.01	No	21	0.0005191	71.43	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-47	0.002207	0.001082	0.01	No	21	0.001071	33.33	Kaplan-Meier	sqrt(x)	0.01	Param.
Arsenic (mg/L)	BRGWC-50	0.00236	0.0014	0.01	No	20	0.0004799	75	Kaplan-Meier	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-52I	0.00251	0.001228	0.01	No	20	0.0009127	50	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	PZ-44	0.004	0.002	0.01	No	8	0.0007004	75	Kaplan-Meier	No	0.004	NP (NDs)
Arsenic (mg/L)	PZ-50D	0.002971	0.001169	0.01	No	7	0.0007587	14.29	None	No	0.01	Param.
Arsenic (mg/L)	PZ-51D	0.00362	0.001423	0.01	No	7	0.0009245	14.29	None	No	0.01	Param.
Arsenic (mg/L)	PZ-51I	0.002	0.002	0.01	No	11	0.00006633	90.91	None	No	0.006	NP (NDs)
Arsenic (mg/L)	PZ-58I	0.00245	0.002	0.01	No	6	0.0001837	83.33	None	No	0.0155	NP (NDs)
Arsenic (mg/L)	PZ-60I	0.005	0.00204	0.01	No	6	0.001356	50	None	No	0.0155	NP (normality)
Arsenic (mg/L)	PZ-61I	0.00295	0.002	0.01	No	6	0.0003688	50	None	No	0.0155	NP (normality)
Arsenic (mg/L)	PZ-64I	0.01392	0.0001973	0.01	No	4	0.003022	0	None	No	0.01	Param.
Barium (mg/L)	BRGWC-25I	0.03372	0.0266	2	No	20	0.006573	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	BRGWC-27I	0.01668	0.01511	2	No	20	0.001375	0	None	No	0.01	Param.
Barium (mg/L)	BRGWC-29I	0.01897	0.01705	2	No	20	0.001693	0	None	No	0.01	Param.
Barium (mg/L)	BRGWC-30I	0.03141	0.02372	2	No	20	0.006767	0	None	No	0.01	Param.
Barium (mg/L)	BRGWC-32S	0.03928	0.02552	2	No	20	0.01211	0	None	No	0.01	Param.
Barium (mg/L)	BRGWC-45	0.09006	0.07004	2	No	21	0.01814	0	None	No	0.01	Param.
Barium (mg/L)	BRGWC-47	0.04108	0.03228	2	No	21	0.00798	0	None	No	0.01	Param.
Barium (mg/L)	BRGWC-50	0.0205	0.01757	2	No	20	0.002573	0	None	No	0.01	Param.
Barium (mg/L)	BRGWC-52I	0.02716	0.01748	2	No	20	0.009104	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	PZ-44	0.05503	0.04807	2	No	8	0.003279	0	None	No	0.01	Param.
Barium (mg/L)	PZ-50D	0.03897	0.02512	2	No	7	0.005828	0	None	No	0.01	Param.
Barium (mg/L)	PZ-51D	0.06987	0.04262	2	No	7	0.01204	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	PZ-51I	0.01577	0.01383	2	No	11	0.001169	0	None	No	0.01	Param.
Barium (mg/L)	PZ-58I	0.01794	0.01583	2	No	6	0.0007679	0	None	No	0.01	Param.
Barium (mg/L)	PZ-60I	0.02322	0.02048	2	No	6	0.0009955	0	None	No	0.01	Param.
Barium (mg/L)	PZ-61I	0.029	0.0102	2	No	6	0.006815	0	None	No	0.0155	NP (normality)
Barium (mg/L)	PZ-63I	0.037	0.0202	2	No	5	0.006862	0	None	No	0.031	NP (normality)
Barium (mg/L)	PZ-64I	0.06954	0	2	No	4	0.01844	0	None	No	0.01	Param.
Beryllium (mg/L)	BRGWC-27I	0.0002	0.00011	0.004	No	21	0.00005165	38.1	None	No	0.01	NP (normality)
Beryllium (mg/L)	BRGWC-29I	0.001105	0.0008326	0.004	No	20	0.0002398	5	None	No	0.01	Param.
Beryllium (mg/L)	BRGWC-45	0.0002	0.000079	0.004	No	22	0.00004078	90.91	None	No	0.01	NP (NDs)
Beryllium (mg/L)	BRGWC-47	0.0002	0.000056	0.004	No	21	0.00005285	85.71	None	No	0.01	NP (NDs)
Beryllium (mg/L)	**BRGWC-50**	**0.008357**	**0.005451**	**0.004**	**Yes**	**10**	**0.001628**	**0**	**None**	**No**	**0.01**	**Param.**
Beryllium (mg/L)	PZ-50D	0.000269	0.000059	0.004	No	7	0.00006312	71.43	None	No	0.008	NP (NDs)
Beryllium (mg/L)	PZ-51I	0.0005	0.000071	0.004	No	11	0.0002068	36.36	None	No	0.006	NP (normality)
Beryllium (mg/L)	**PZ-58I**	**0.03855**	**0.02515**	**0.004**	**Yes**	**6**	**0.004876**	**0**	**None**	**No**	**0.01**	**Param.**
Beryllium (mg/L)	**PZ-60I**	**0.07698**	**0.06116**	**0.004**	**Yes**	**6**	**0.005757**	**0**	**None**	**No**	**0.01**	**Param.**
Beryllium (mg/L)	PZ-61I	0.001901	0.001379	0.004	No	6	0.0001896	0	None	No	0.01	Param.
Beryllium (mg/L)	PZ-63I	0.005	0.000286	0.004	No	5	0.002108	80	None	No	0.031	NP (NDs)
Beryllium (mg/L)	PZ-64I	0.004025	0	0.004	No	4	0.001011	0	None	No	0.01	Param.
Cadmium (mg/L)	BRGWC-27I	0.0003	0.00009	0.005	No	21	0.00006625	90.48	None	No	0.01	NP (NDs)
Cadmium (mg/L)	BRGWC-30I	0.0003	0.00014	0.005	No	21	0.00005793	90.48	None	No	0.01	NP (NDs)
Cadmium (mg/L)	BRGWC-32S	0.0003	0.00011	0.005	No	21	0.00007307	85.71	None	No	0.01	NP (NDs)
Cadmium (mg/L)	BRGWC-45	0.0003	0.0002	0.005	No	22	0.00006661	81.82	None	No	0.01	NP (NDs)
Cadmium (mg/L)	BRGWC-47	0.0003	0.00017	0.005	No	21	0.00006989	52.38	None	No	0.01	NP (NDs)
Cadmium (mg/L)	**BRGWC-50**	**0.02754**	**0.01063**	**0.005**	**Yes**	**20**	**0.02392**	**0**	**None**	**ln(x)**	**0.01**	**Param.**
Cadmium (mg/L)	PZ-51I	0.006611	0.00118	0.005	No	13	0.009226	0	None	ln(x)	0.01	Param.
Cadmium (mg/L)	PZ-58I	0.004806	0.003914	0.005	No	6	0.000325	0	None	No	0.01	Param.
Cadmium (mg/L)	**PZ-60I**	**0.01695**	**0.01408**	**0.005**	**Yes**	**6**	**0.001044**	**0**	**None**	**No**	**0.01**	**Param.**
Cadmium (mg/L)	PZ-61I	0.0009035	0.0001605	0.005	No	6	0.0002704	0	None	No	0.01	Param.
Cadmium (mg/L)	PZ-64I	0.001331	0.0008487	0.005	No	4	0.0001227	50	Kaplan-Meier	No	0.01	Param.

Confidence Intervals Summary Table - All Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 4/10/2024, 3:59 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Chromium (mg/L)	BRGWC-25I	0.003	0.0016	0.1	No	20	0.0005359	90	None	No	0.01	NP (NDs)
Chromium (mg/L)	BRGWC-27I	0.003	0.003	0.1	No	20	0.0004472	90	None	No	0.01	NP (NDs)
Chromium (mg/L)	BRGWC-29I	0.02	0.003	0.1	No	20	0.003801	95	None	No	0.01	NP (NDs)
Chromium (mg/L)	BRGWC-30I	0.0051	0.003	0.1	No	20	0.00248	90	None	No	0.01	NP (NDs)
Chromium (mg/L)	BRGWC-32S	0.003	0.0014	0.1	No	20	0.0007625	45	None	No	0.01	NP (normality)
Chromium (mg/L)	BRGWC-45	0.003	0.0014	0.1	No	21	0.0007385	85.71	None	No	0.01	NP (NDs)
Chromium (mg/L)	BRGWC-47	0.003	0.0018	0.1	No	21	0.0008162	80.95	None	No	0.01	NP (NDs)
Chromium (mg/L)	BRGWC-50	0.003	0.001	0.1	No	20	0.001097	65	None	No	0.01	NP (NDs)
Chromium (mg/L)	BRGWC-52I	0.003	0.0017	0.1	No	20	0.0002907	95	None	No	0.01	NP (NDs)
Chromium (mg/L)	PZ-51I	0.003	0.00098	0.1	No	11	0.0008545	81.82	None	No	0.006	NP (NDs)
Chromium (mg/L)	PZ-61I	0.0077	0.003	0.1	No	6	0.001919	83.33	None	No	0.0155	NP (NDs)
Cobalt (mg/L)	BRGWC-25I	0.00592	0.003641	0.014	No	20	0.002129	5	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	BRGWC-27I	0.0101	0.007256	0.014	No	21	0.002577	0	None	No	0.01	Param.
Cobalt (mg/L)	BRGWC-29I	0.009576	0.006825	0.014	No	20	0.002423	5	None	No	0.01	Param.
Cobalt (mg/L)	BRGWC-30I	0.00179	0.0008	0.014	No	21	0.006741	14.29	None	No	0.01	NP (normality)
Cobalt (mg/L)	BRGWC-32S	0.001	0.0003	0.014	No	21	0.0004965	90.48	None	No	0.01	NP (NDs)
Cobalt (mg/L)	BRGWC-45	0.01171	0.00497	0.014	No	22	0.01383	0	None	ln(x)	0.01	Param.
Cobalt (mg/L)	BRGWC-47	0.0016	0.0003	0.014	No	21	0.00299	28.57	None	No	0.01	NP (normality)
Cobalt (mg/L)	**BRGWC-50**	**1.42**	**1.35**	**0.014**	**Yes**	**20**	**0.06161**	**0**	**None**	**No**	**0.01**	**NP (normality)**
Cobalt (mg/L)	BRGWC-52I	0.0012	0.00063	0.014	No	20	0.0009416	55	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-44	0.001	0.000408	0.014	No	8	0.0002093	87.5	None	No	0.004	NP (NDs)
Cobalt (mg/L)	PZ-50D	0.2787	0.002943	0.014	No	8	0.1676	0	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	PZ-51D	0.00111	0.000306	0.014	No	8	0.0003467	37.5	None	No	0.004	NP (normality)
Cobalt (mg/L)	**PZ-51I**	**0.0259**	**0.018**	**0.014**	**Yes**	**13**	**0.00604**	**0**	**None**	**No**	**0.01**	**NP (normality)**
Cobalt (mg/L)	**PZ-58I**	**0.592**	**0.397**	**0.014**	**Yes**	**6**	**0.07098**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	**PZ-60I**	**3.826**	**3.401**	**0.014**	**Yes**	**6**	**0.1549**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	**PZ-61I**	**0.7533**	**0.439**	**0.014**	**Yes**	**6**	**0.1144**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	**PZ-63I**	**0.03457**	**0.01783**	**0.014**	**Yes**	**5**	**0.004996**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	**PZ-64I**	**12.08**	**8.176**	**0.014**	**Yes**	**4**	**0.8597**	**0**	**None**	**No**	**0.01**	**Param.**
Combined Radium 226 + 228 (pCi/L)	BRGWC-25I	1.803	0.7064	5	No	20	1.148	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-27I	1.609	0.7159	5	No	20	0.7865	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-29I	1.968	1.266	5	No	20	0.6182	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-30I	1.761	0.7452	5	No	20	1.037	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-32S	1.285	0.5456	5	No	20	0.6509	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-45	0.9279	0.455	5	No	21	0.4286	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-47	1.961	0.926	5	No	21	0.9382	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-50	2.19	1.186	5	No	20	1.082	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-52I	3.428	1.635	5	No	20	1.871	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-44	2.14	0.2393	5	No	8	1.05	0	None	x^(1/3)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-50D	3.347	0.9761	5	No	7	0.9979	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-51D	4.358	1.353	5	No	7	1.265	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-51I	3.48	0.8089	5	No	11	3.278	0	None	ln(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-58I	4.03	0.162	5	No	6	1.529	0	None	No	0.0155	NP (selected)
Combined Radium 226 + 228 (pCi/L)	PZ-60I	5.326	2.318	5	No	6	1.095	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-61I	3.298	0.5449	5	No	6	1.002	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-63I	6.093	0.2103	5	No	5	2.085	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-64I	3.5	0.877	5	No	4	1.209	0	None	No	0.0625	NP (selected)
Fluoride (mg/L)	BRGWC-25I	0.25	0.15	4	No	21	0.1233	4.762	None	No	0.01	NP (normality)
Fluoride (mg/L)	BRGWC-27I	0.2577	0.1713	4	No	21	0.0783	9.524	None	No	0.01	Param.
Fluoride (mg/L)	BRGWC-29I	0.1926	0.09711	4	No	21	0.1158	9.524	None	ln(x)	0.01	Param.
Fluoride (mg/L)	BRGWC-30I	0.3155	0.1391	4	No	21	0.2008	4.762	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	BRGWC-32S	0.11	0.09	4	No	21	0.04365	52.38	None	No	0.01	NP (NDs)
Fluoride (mg/L)	BRGWC-45	0.163	0.067	4	No	22	0.2143	45.45	None	No	0.01	NP (normality)
Fluoride (mg/L)	BRGWC-47	0.27	0.1	4	No	22	0.2406	45.45	None	No	0.01	NP (normality)
Fluoride (mg/L)	BRGWC-50	0.7458	0.3683	4	No	21	0.4143	0	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	BRGWC-52I	0.2246	0.1427	4	No	20	0.07204	5	None	No	0.01	Param.
Fluoride (mg/L)	PZ-44	0.2166	0.08206	4	No	8	0.0912	25	Kaplan-Meier	No	0.01	Param.
Fluoride (mg/L)	PZ-50D	0.2287	0.1093	4	No	8	0.05632	0	None	No	0.01	Param.
Fluoride (mg/L)	PZ-51D	0.3593	0.2372	4	No	8	0.05762	0	None	No	0.01	Param.
Fluoride (mg/L)	PZ-51I	0.12	0.0661	4	No	12	0.02326	58.33	None	No	0.01	NP (NDs)
Fluoride (mg/L)	PZ-58I	1.8	0.97	4	No	6	0.2949	0	None	No	0.0155	NP (normality)
Fluoride (mg/L)	PZ-60I	2.107	1.092	4	No	6	0.3906	0	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	PZ-61I	0.187	0.04981	4	No	6	0.05434	16.67	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride (mg/L)	PZ-63I	0.3213	0.1371	4	No	5	0.05497	0	None	No	0.01	Param.
Fluoride (mg/L)	PZ-64I	0.135	0.0767	4	No	4	0.03269	0	None	No	0.0625	NP (normality)
Lead (mg/L)	BRGWC-25I	0.0005	0.00011	0.015	No	20	0.00008721	95	None	No	0.01	NP (NDs)
Lead (mg/L)	BRGWC-27I	0.0005	0.000063	0.015	No	20	0.00009772	95	None	No	0.01	NP (NDs)
Lead (mg/L)	BRGWC-29I	0.0005	0.00029	0.015	No	19	0.0001143	31.58	None	No	0.01	NP (normality)

Confidence Intervals Summary Table - All Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 4/10/2024, 3:59 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lead (mg/L)	BRGWC-30I	0.0005	0.00011	0.015	No	20	0.00008721	95	None	No	0.01	NP (NDs)
Lead (mg/L)	BRGWC-45	0.000595	0.00026	0.015	No	21	0.0001252	80.95	None	No	0.01	NP (NDs)
Lead (mg/L)	BRGWC-47	0.0005	0.00012	0.015	No	21	0.0001518	85.71	None	No	0.01	NP (NDs)
Lead (mg/L)	BRGWC-50	0.0005	0.00015	0.015	No	20	0.0001889	60	None	No	0.01	NP (NDs)
Lead (mg/L)	BRGWC-52I	0.0005	0.000042	0.015	No	20	0.0001024	95	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-50D	0.0005	0.000056	0.015	No	7	0.0001678	85.71	None	No	0.008	NP (NDs)
Lead (mg/L)	PZ-51D	0.0005	0.00013	0.015	No	7	0.0001398	85.71	None	No	0.008	NP (NDs)
Lead (mg/L)	PZ-51I	0.0005	0.00036	0.015	No	11	0.0001041	81.82	None	No	0.006	NP (NDs)
Lead (mg/L)	PZ-58I	0.005	0.000825	0.015	No	6	0.002134	33.33	None	No	0.0155	NP (normality)
Lead (mg/L)	PZ-61I	0.0019	0.0005	0.015	No	6	0.0005779	66.67	None	No	0.0155	NP (NDs)
Lithium (mg/L)	BRGWC-27I	0.001511	0.001164	0.089	No	20	0.00075	30	Kaplan-Meier	ln(x)	0.01	Param.
Lithium (mg/L)	BRGWC-29I	0.003571	0.00308	0.089	No	20	0.000432	0	None	No	0.01	Param.
Lithium (mg/L)	BRGWC-30I	0.02042	0.01333	0.089	No	20	0.006242	0	None	No	0.01	Param.
Lithium (mg/L)	BRGWC-32S	0.0043	0.0021	0.089	No	20	0.006938	10	None	No	0.01	NP (normality)
Lithium (mg/L)	BRGWC-45	0.003447	0.002916	0.089	No	20	0.0004679	15	None	No	0.01	Param.
Lithium (mg/L)	BRGWC-47	0.04583	0.04141	0.089	No	21	0.004013	0	None	No	0.01	Param.
Lithium (mg/L)	BRGWC-50	0.04423	0.03857	0.089	No	20	0.005145	0	None	sqrt(x)	0.01	Param.
Lithium (mg/L)	BRGWC-52I	0.01003	0.004068	0.089	No	20	0.006263	5	None	sqrt(x)	0.01	Param.
Lithium (mg/L)	PZ-44	0.006581	0.004636	0.089	No	8	0.0009174	0	None	No	0.01	Param.
Lithium (mg/L)	PZ-50D	0.02712	0.01988	0.089	No	7	0.003046	0	None	No	0.01	Param.
Lithium (mg/L)	PZ-51D	0.00977	0.006905	0.089	No	7	0.002043	0	None	x^6	0.01	Param.
Lithium (mg/L)	PZ-51I	0.02343	0.01957	0.089	No	11	0.00232	0	None	No	0.01	Param.
Lithium (mg/L)	PZ-58I	0.05501	0.03956	0.089	No	6	0.005624	0	None	No	0.01	Param.
Lithium (mg/L)	**PZ-60I**	**0.1103**	**0.09052**	**0.089**	**Yes**	**6**	**0.007192**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	PZ-61I	0.012	0.008831	0.089	No	6	0.001152	0	None	No	0.01	Param.
Lithium (mg/L)	PZ-63I	0.007338	0.00443	0.089	No	5	0.0008677	0	None	No	0.01	Param.
Lithium (mg/L)	PZ-64I	0.02208	0.002732	0.089	No	4	0.003416	0	None	x^2	0.01	Param.
Mercury (mg/L)	BRGWC-25I	0.000083	0.00004	0.002	No	18	0.000007586	88.89	None	No	0.01	NP (NDs)
Mercury (mg/L)	BRGWC-27I	0.000067	0.00005	0.002	No	18	0.000006005	88.89	None	No	0.01	NP (NDs)
Mercury (mg/L)	BRGWC-29I	0.00078	0.000098	0.002	No	18	0.0001509	77.78	None	No	0.01	NP (NDs)
Mercury (mg/L)	BRGWC-30I	0.00007	0.00004	0.002	No	18	0.000007509	83.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	BRGWC-32S	0.000082	0.000067	0.002	No	18	0.000009588	83.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	PZ-51I	0.000067	0.000067	0.002	No	11	0.000009648	90.91	None	No	0.006	NP (NDs)
Mercury (mg/L)	PZ-58I	0.00146	0.0002	0.002	No	6	0.0005144	83.33	None	No	0.0155	NP (NDs)
Molybdenum (mg/L)	BRGWC-25I	0.01	0.00092	0.1	No	19	0.004598	52.63	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	BRGWC-27I	0.001	0.000213	0.1	No	19	0.0001806	94.74	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	BRGWC-30I	0.01	0.0012	0.1	No	19	0.004417	57.89	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	BRGWC-45	0.000356	0.0002	0.1	No	20	0.0001495	80	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	BRGWC-47	0.01	0.000296	0.1	No	20	0.003987	80	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	BRGWC-50	0.0022	0.0002	0.1	No	19	0.0008247	89.47	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	BRGWC-52I	0.01	0.0007	0.1	No	19	0.004166	36.84	None	No	0.01	NP (normality)
Molybdenum (mg/L)	PZ-50D	0.001835	0.000521	0.1	No	7	0.0005531	14.29	None	No	0.01	Param.
Molybdenum (mg/L)	PZ-51D	0.004493	0.0008093	0.1	No	7	0.002003	0	None	x^(1/3)	0.01	Param.
Molybdenum (mg/L)	PZ-51I	0.001	0.000283	0.1	No	11	0.000344	72.73	None	No	0.006	NP (NDs)
Molybdenum (mg/L)	PZ-63I	0.0009751	0.0005061	0.1	No	5	0.00014	0	None	No	0.01	Param.
Molybdenum (mg/L)	PZ-64I	0.000432	0.0002	0.1	No	4	0.0001158	50	None	No	0.0625	NP (normality)
Selenium (mg/L)	BRGWC-25I	0.0021	0.0015	0.05	No	20	0.0001342	95	None	No	0.01	NP (NDs)
Selenium (mg/L)	BRGWC-27I	0.0036	0.0015	0.05	No	20	0.001189	45	None	No	0.01	NP (normality)
Selenium (mg/L)	BRGWC-29I	0.005	0.0042	0.05	No	20	0.001364	55	None	No	0.01	NP (NDs)
Selenium (mg/L)	BRGWC-30I	0.0018	0.0015	0.05	No	20	0.0008938	80	None	No	0.01	NP (NDs)
Selenium (mg/L)	**BRGWC-32S**	**0.182**	**0.1028**	**0.05**	**Yes**	**13**	**0.05326**	**0**	**None**	**No**	**0.01**	**Param.**
Selenium (mg/L)	BRGWC-45	0.0029	0.0015	0.05	No	21	0.0003055	95.24	None	No	0.01	NP (NDs)
Selenium (mg/L)	BRGWC-47	0.0016	0.0015	0.05	No	21	0.0003097	71.43	None	No	0.01	NP (NDs)
Selenium (mg/L)	BRGWC-50	0.0022	0.0015	0.05	No	20	0.0007528	50	None	No	0.01	NP (normality)
Selenium (mg/L)	PZ-58I	0.004737	0.001723	0.05	No	6	0.001097	0	None	No	0.01	Param.
Selenium (mg/L)	PZ-60I	0.004935	0.002338	0.05	No	6	0.0009454	0	None	No	0.01	Param.
Selenium (mg/L)	PZ-61I	0.007183	0.001634	0.05	No	6	0.00202	0	None	No	0.01	Param.
Selenium (mg/L)	PZ-64I	0.0373	0	0.05	No	4	0.00862	0	None	No	0.01	Param.
Thallium (mg/L)	BRGWC-29I	0.0006	0.00017	0.002	No	20	0.0002067	35	None	No	0.01	NP (normality)

Appendix IV - Trend Test Summary - Significant Results

Plant Branch Data: Plant Branch AP Printed 4/11/2024, 9:40 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Beryllium (mg/L)	**BRGWC-50**	**0.001258**	**144**	**62**	**Yes**	**20**	**10**	**n/a**	**n/a**	**0.05**	**NP**
Cadmium (mg/L)	**BRGWC-50**	**-0.005967**	**-117**	**-62**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**BRGWA-23S (bg)**	**-0.0006356**	**-130**	**-62**	**Yes**	**20**	**25**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**BRGWA-2S (bg)**	**-0.0003042**	**-132**	**-62**	**Yes**	**20**	**10**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**BRGWA-5I (bg)**	**-0.00009177**	**-71**	**-53**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**PZ-58I**	**0.0756**	**15**	**12**	**Yes**	**6**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**PZ-61I**	**0.1024**	**13**	**12**	**Yes**	**6**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	**BRGWA-6S (bg)**	**0.0001012**	**65**	**62**	**Yes**	**20**	**5**	**n/a**	**n/a**	**0.05**	**NP**
Selenium (mg/L)	**BRGWC-32S**	**0.032**	**149**	**66**	**Yes**	**21**	**19.05**	**n/a**	**n/a**	**0.05**	**NP**

Appendix IV - Trend Test Summary - All Results

Plant Branch Data: Plant Branch AP Printed 4/11/2024, 9:40 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Beryllium (mg/L)	BRGWA-12I (bg)	0	0	53	No	18	100	n/a	n/a	0.05	NP
Beryllium (mg/L)	BRGWA-12S (bg)	0	0	53	No	18	100	n/a	n/a	0.05	NP
Beryllium (mg/L)	BRGWA-23S (bg)	0	0	62	No	20	100	n/a	n/a	0.05	NP
Beryllium (mg/L)	BRGWA-2I (bg)	0	0	62	No	20	100	n/a	n/a	0.05	NP
Beryllium (mg/L)	BRGWA-2S (bg)	0	0	62	No	20	100	n/a	n/a	0.05	NP
Beryllium (mg/L)	BRGWA-5I (bg)	0	0	62	No	20	100	n/a	n/a	0.05	NP
Beryllium (mg/L)	BRGWA-5S (bg)	0	0	62	No	20	100	n/a	n/a	0.05	NP
Beryllium (mg/L)	BRGWA-6S (bg)	0	0	62	No	20	100	n/a	n/a	0.05	NP
Beryllium (mg/L)	**BRGWC-50**	**0.001258**	**144**	**62**	**Yes**	**20**	**10**	**n/a**	**n/a**	**0.05**	**NP**
Beryllium (mg/L)	PZ-58I	0.004242	9	12	No	6	0	n/a	n/a	0.05	NP
Beryllium (mg/L)	PZ-60I	-0.003072	-3	-12	No	6	0	n/a	n/a	0.05	NP
Cadmium (mg/L)	BRGWA-12I (bg)	0	0	58	No	19	100	n/a	n/a	0.05	NP
Cadmium (mg/L)	BRGWA-12S (bg)	0	0	58	No	19	100	n/a	n/a	0.05	NP
Cadmium (mg/L)	BRGWA-23S (bg)	0	11	62	No	20	90	n/a	n/a	0.05	NP
Cadmium (mg/L)	BRGWA-2I (bg)	0	0	62	No	20	100	n/a	n/a	0.05	NP
Cadmium (mg/L)	BRGWA-2S (bg)	0	0	62	No	20	100	n/a	n/a	0.05	NP
Cadmium (mg/L)	BRGWA-5I (bg)	0	0	62	No	20	100	n/a	n/a	0.05	NP
Cadmium (mg/L)	BRGWA-5S (bg)	0	0	62	No	20	100	n/a	n/a	0.05	NP
Cadmium (mg/L)	BRGWA-6S (bg)	0	0	62	No	20	100	n/a	n/a	0.05	NP
Cadmium (mg/L)	**BRGWC-50**	**-0.005967**	**-117**	**-62**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Cadmium (mg/L)	PZ-60I	-0.0008179	-10	-12	No	6	0	n/a	n/a	0.05	NP
Cobalt (mg/L)	BRGWA-12I (bg)	0	0	58	No	19	100	n/a	n/a	0.05	NP
Cobalt (mg/L)	BRGWA-12S (bg)	0	0	58	No	19	100	n/a	n/a	0.05	NP
Cobalt (mg/L)	**BRGWA-23S (bg)**	**-0.0006356**	**-130**	**-62**	**Yes**	**20**	**25**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	BRGWA-2I (bg)	0	-52	-62	No	20	60	n/a	n/a	0.05	NP
Cobalt (mg/L)	**BRGWA-2S (bg)**	**-0.0003042**	**-132**	**-62**	**Yes**	**20**	**10**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**BRGWA-5I (bg)**	**-0.00009177**	**-71**	**-53**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	BRGWA-5S (bg)	0	-45	-62	No	20	70	n/a	n/a	0.05	NP
Cobalt (mg/L)	BRGWA-6S (bg)	0	12	62	No	20	75	n/a	n/a	0.05	NP
Cobalt (mg/L)	BRGWC-50	0	9	62	No	20	0	n/a	n/a	0.05	NP
Cobalt (mg/L)	PZ-51I	0.001153	29	34	No	13	0	n/a	n/a	0.05	NP
Cobalt (mg/L)	**PZ-58I**	**0.0756**	**15**	**12**	**Yes**	**6**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	PZ-60I	0.1491	11	12	No	6	0	n/a	n/a	0.05	NP
Cobalt (mg/L)	**PZ-61I**	**0.1024**	**13**	**12**	**Yes**	**6**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	PZ-63I	0.006396	8	10	No	5	0	n/a	n/a	0.05	NP
Cobalt (mg/L)	PZ-64I	-0.02986	0	8	No	4	0	n/a	n/a	0.05	NP
Lithium (mg/L)	BRGWA-12I (bg)	-0.0001266	-41	-53	No	18	0	n/a	n/a	0.05	NP
Lithium (mg/L)	BRGWA-12S (bg)	0	0	53	No	18	100	n/a	n/a	0.05	NP
Lithium (mg/L)	BRGWA-23S (bg)	0.0001892	25	62	No	20	0	n/a	n/a	0.05	NP
Lithium (mg/L)	BRGWA-2I (bg)	-0.002191	-52	-62	No	20	0	n/a	n/a	0.05	NP
Lithium (mg/L)	BRGWA-2S (bg)	0	0	62	No	20	100	n/a	n/a	0.05	NP
Lithium (mg/L)	BRGWA-5I (bg)	-0.0001304	-40	-62	No	20	30	n/a	n/a	0.05	NP
Lithium (mg/L)	BRGWA-5S (bg)	0	0	62	No	20	100	n/a	n/a	0.05	NP
Lithium (mg/L)	**BRGWA-6S (bg)**	**0.0001012**	**65**	**62**	**Yes**	**20**	**5**	**n/a**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	PZ-60I	-0.001764	-3	-12	No	6	0	n/a	n/a	0.05	NP
Selenium (mg/L)	BRGWA-12I (bg)	0	0	53	No	18	100	n/a	n/a	0.05	NP
Selenium (mg/L)	BRGWA-12S (bg)	0	0	53	No	18	100	n/a	n/a	0.05	NP
Selenium (mg/L)	BRGWA-23S (bg)	0	-26	-62	No	20	40	n/a	n/a	0.05	NP
Selenium (mg/L)	BRGWA-2I (bg)	0	0	62	No	20	100	n/a	n/a	0.05	NP
Selenium (mg/L)	BRGWA-2S (bg)	0	0	62	No	20	100	n/a	n/a	0.05	NP
Selenium (mg/L)	BRGWA-5I (bg)	0	0	62	No	20	100	n/a	n/a	0.05	NP
Selenium (mg/L)	BRGWA-5S (bg)	0	0	62	No	20	100	n/a	n/a	0.05	NP
Selenium (mg/L)	BRGWA-6S (bg)	0	0	62	No	20	100	n/a	n/a	0.05	NP
Selenium (mg/L)	**BRGWC-32S**	**0.032**	**149**	**66**	**Yes**	**21**	**19.05**	**n/a**	**n/a**	**0.05**	**NP**

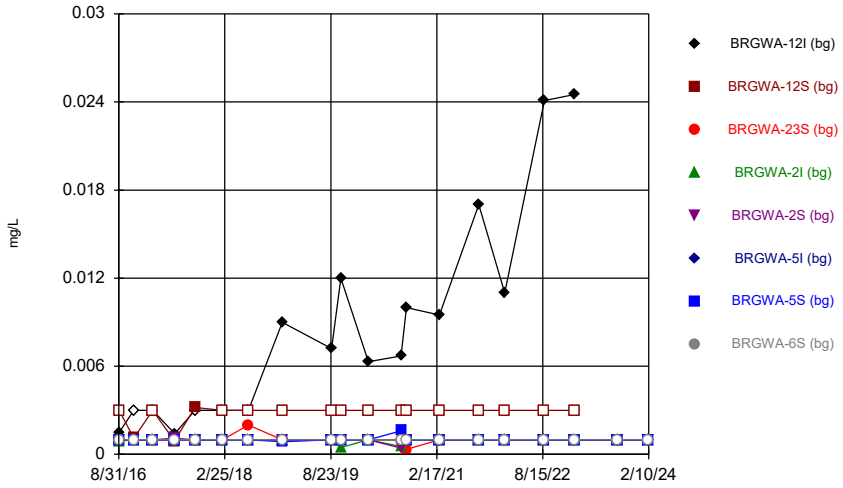
Table of Contents

Figure A. Time Series	27
Figure B. Box Plots	154
Figure C. Outlier Summary	176
Figure D. Appendix III Interwell Prediction Limits	178
Figure E. Appendix III Trend Tests	211
Figure F. Upper Tolerance Limits	238
Figure G. Groundwater Protection Standards	244
Figure H. Appendix IV Confidence Intervals	246
Figure I. Appendix IV Trend Tests	318

FIGURE A.

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Time Series



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Plant Branch Client: Southern Company Data: Plant Branch AP

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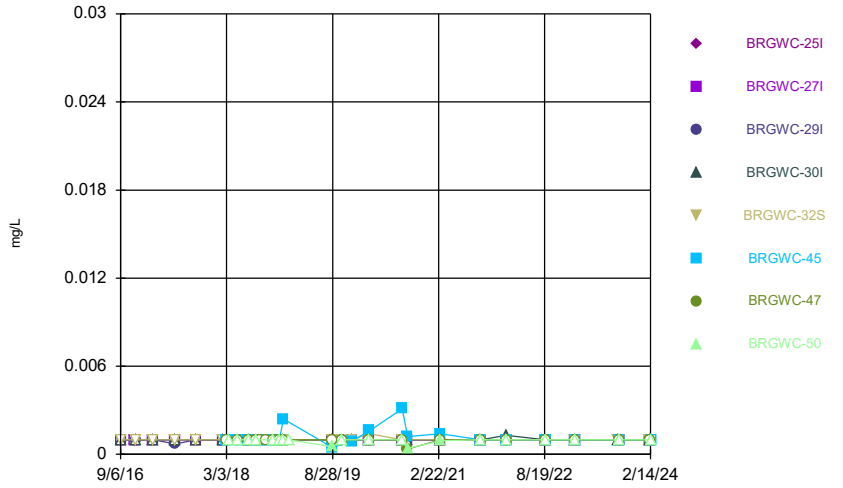

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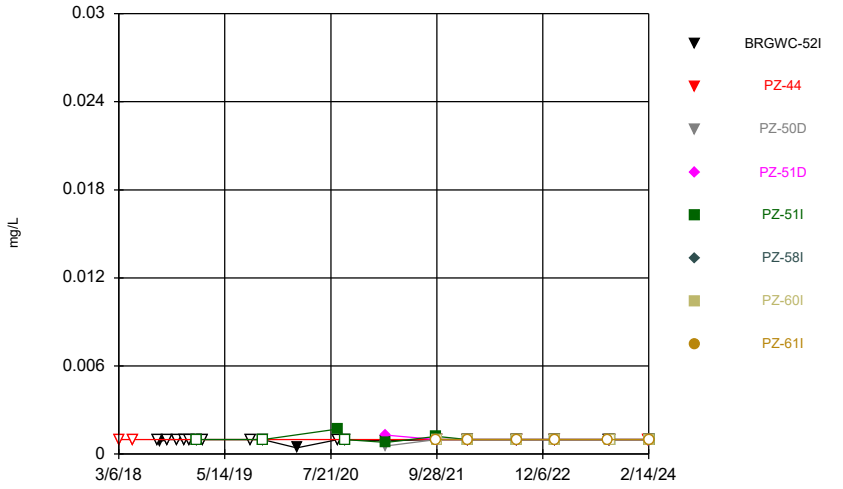

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Plant Branch Client: Southern Company Data: Plant Branch AP

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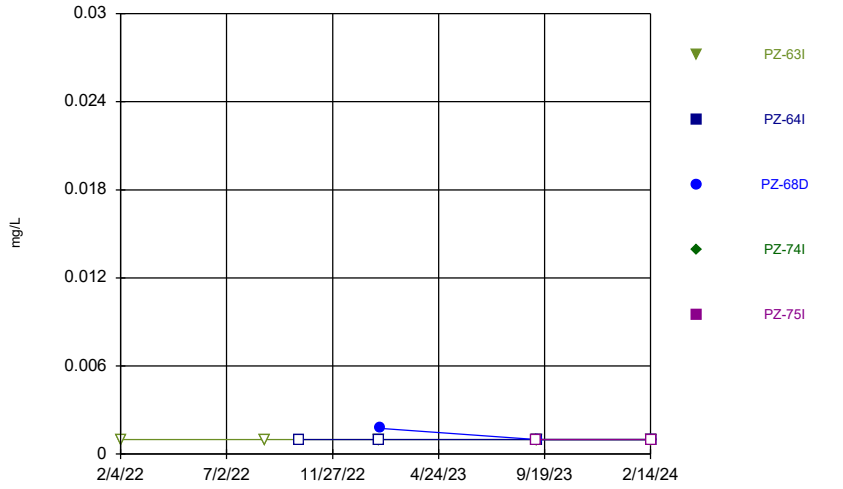

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Plant Branch Client: Southern Company Data: Plant Branch AP

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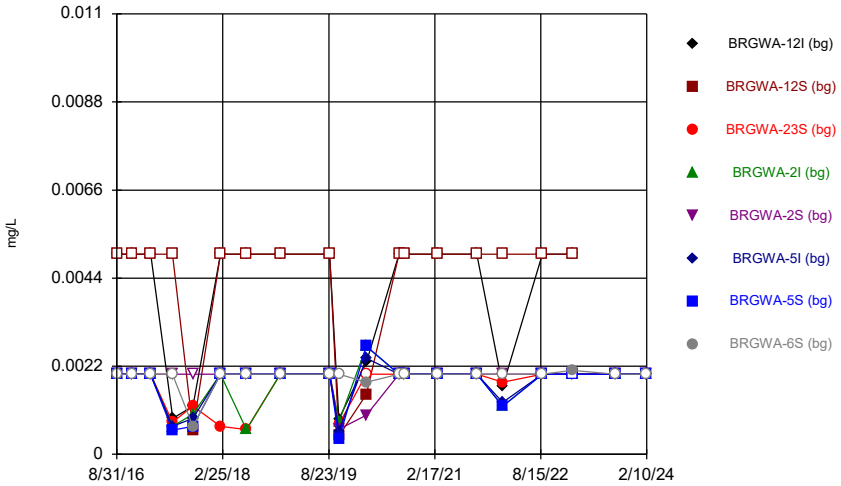

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Plant Branch Client: Southern Company Data: Plant Branch AP

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Hollow symbols indicate censored values.

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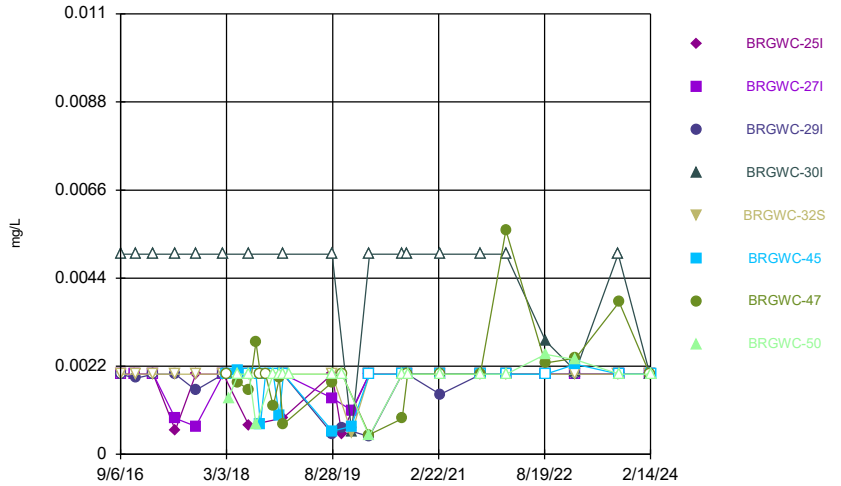

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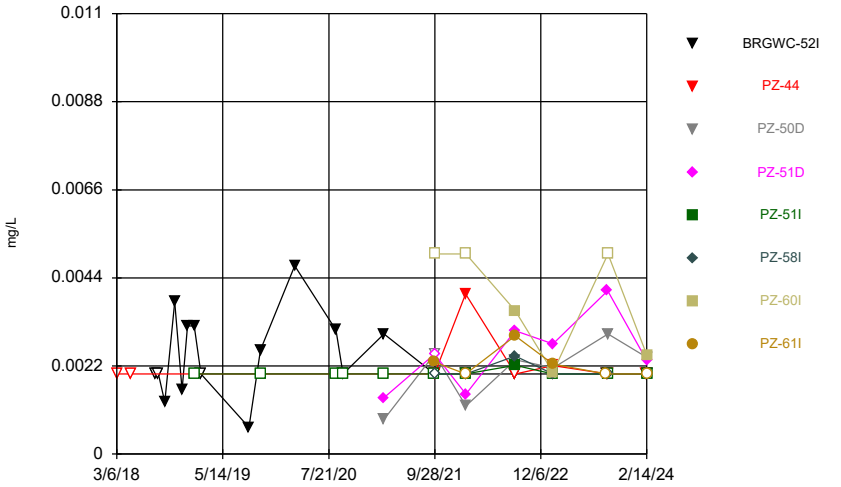

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Hollow symbols indicate censored values.

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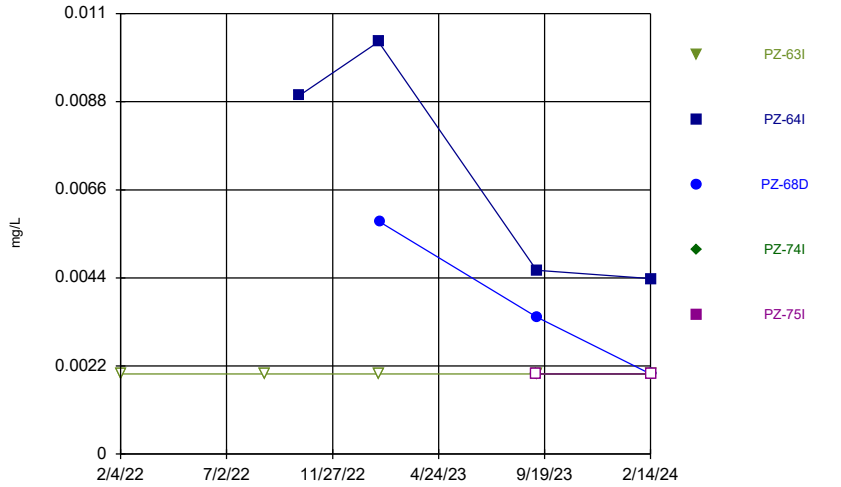

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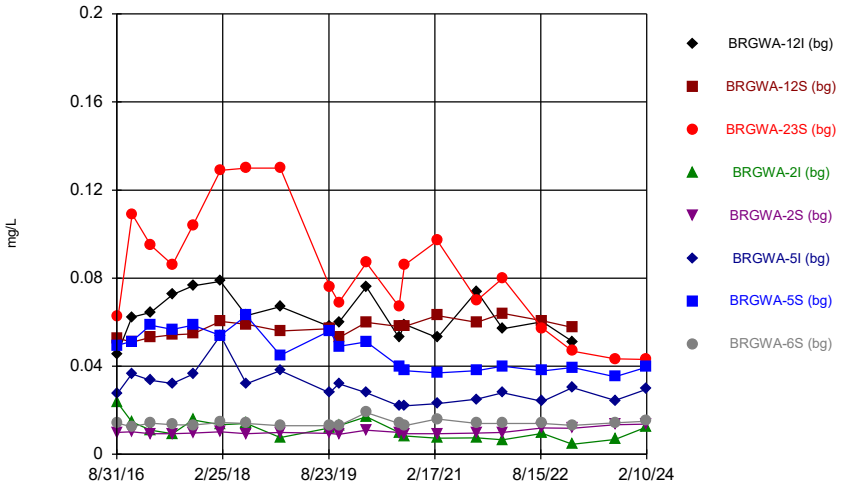
Time Series



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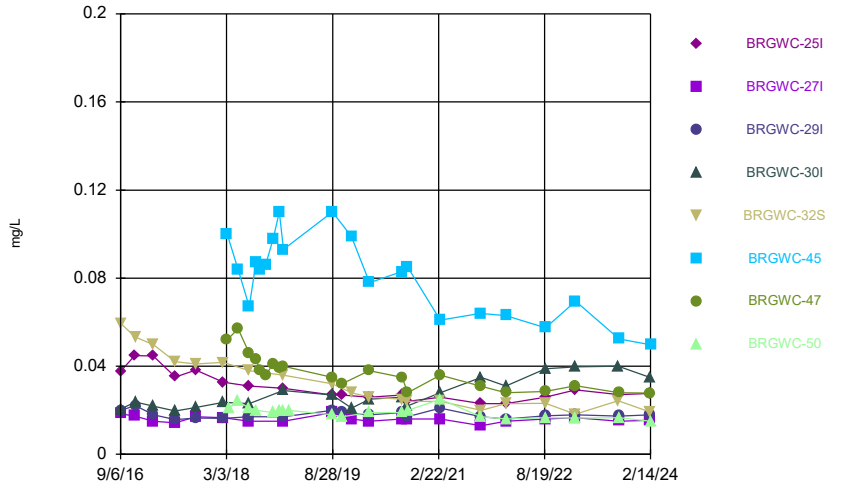

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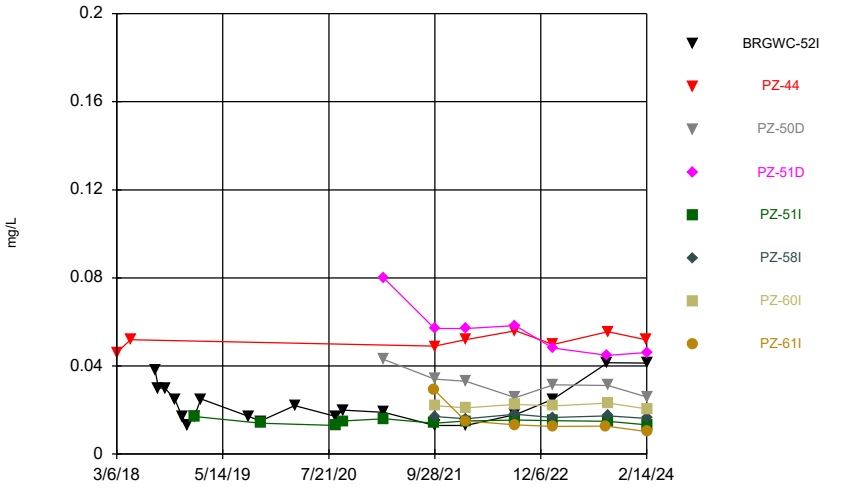
Sanitas™ v.10.0.16 . UG

Time Series



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Plant Branch Client: Southern Company Data: Plant Branch AP

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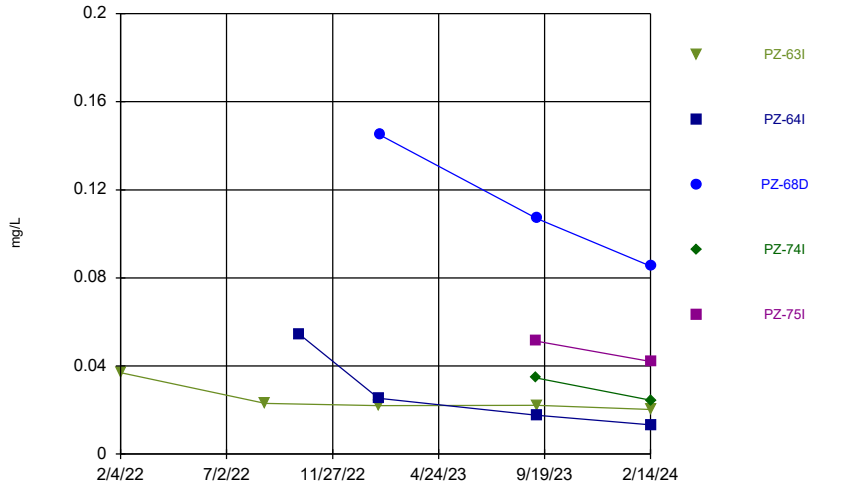
Time Series



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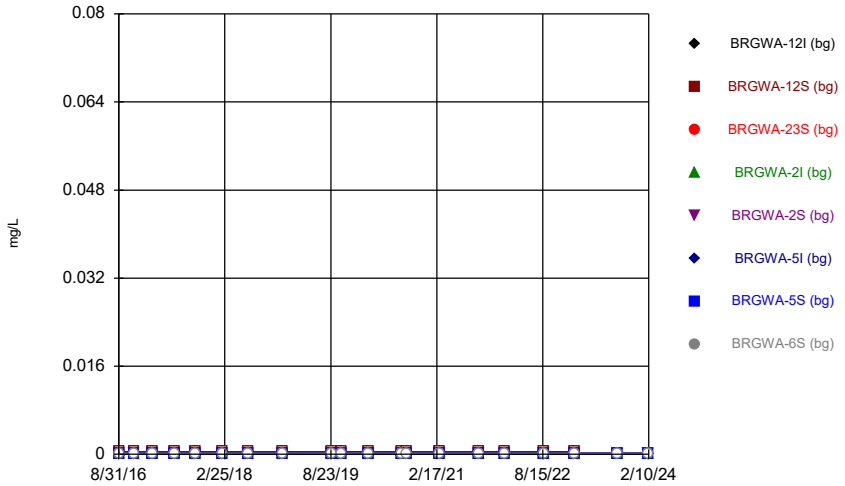

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Plant Branch Client: Southern Company Data: Plant Branch AP

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Hollow symbols indicate censored values.

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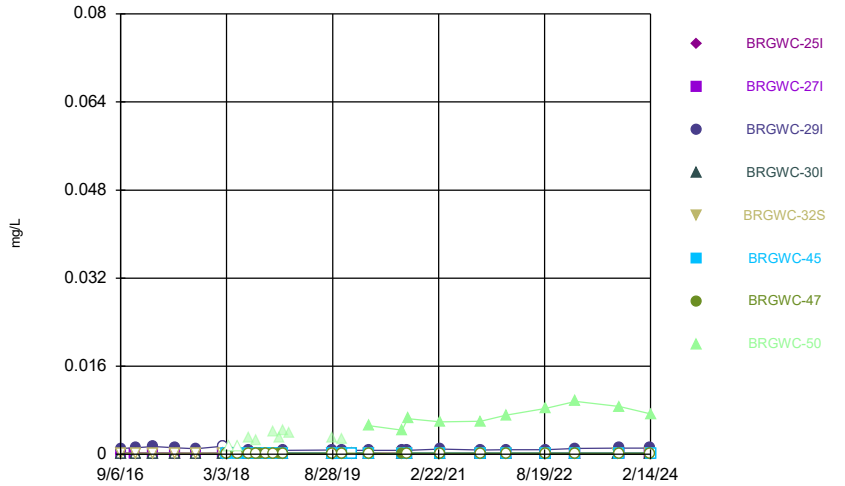

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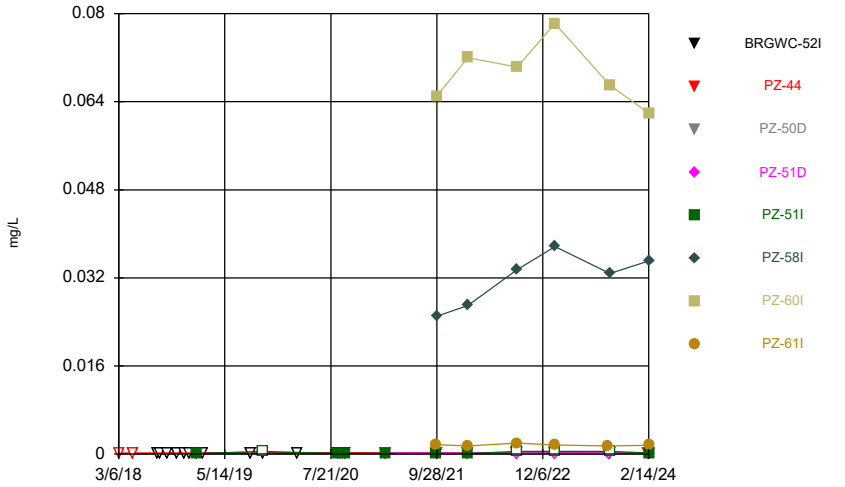

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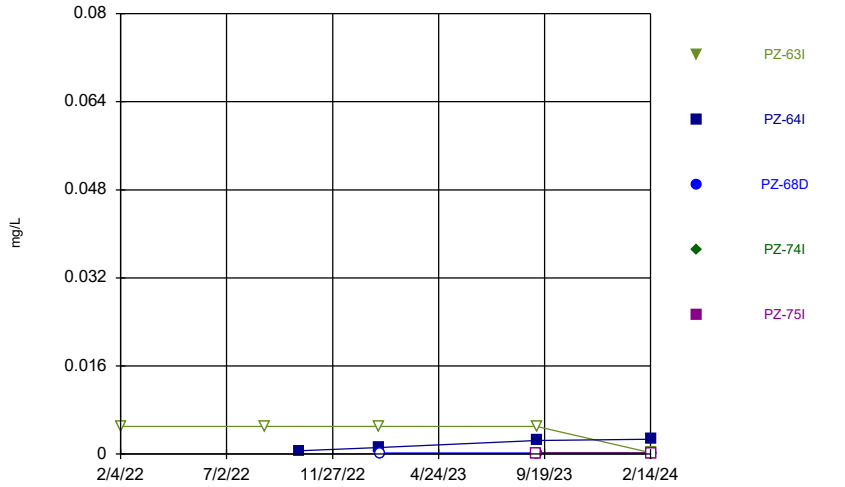

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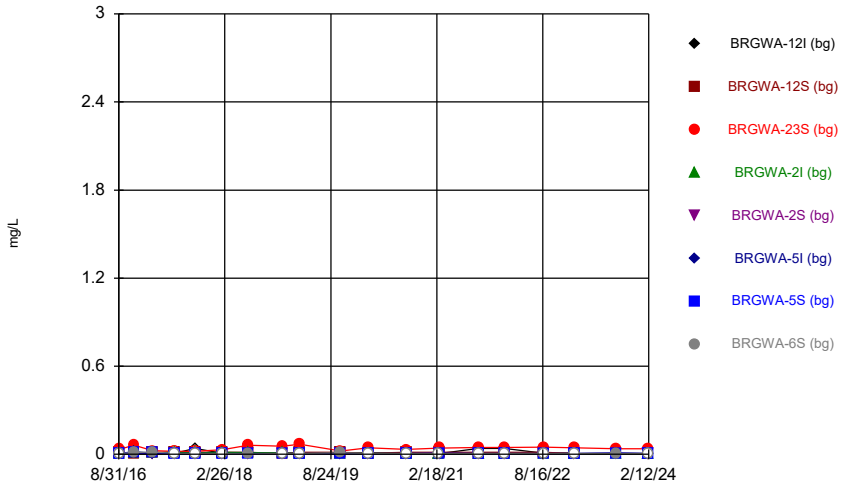

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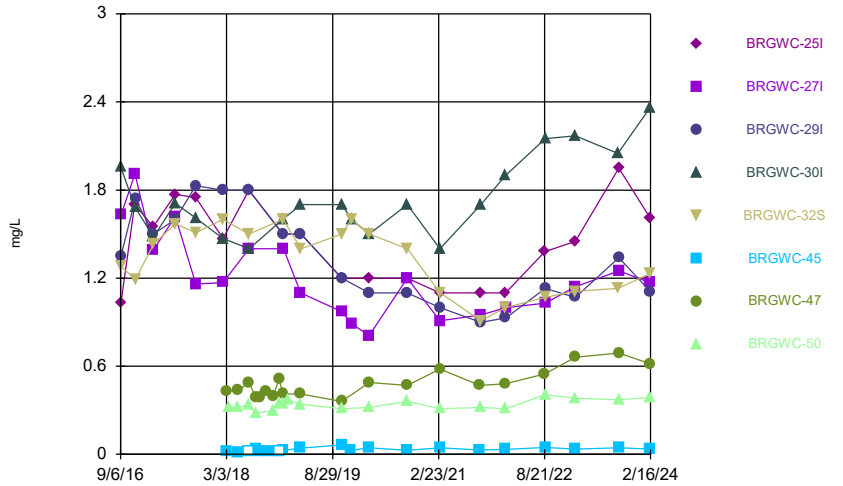

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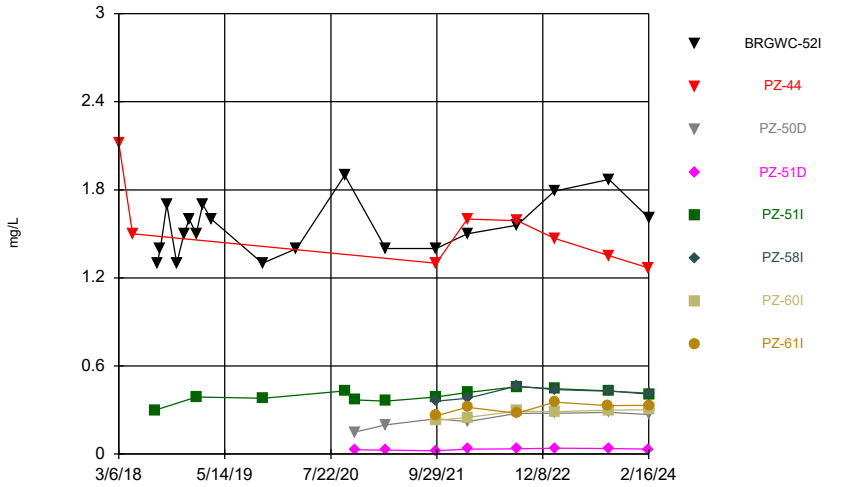

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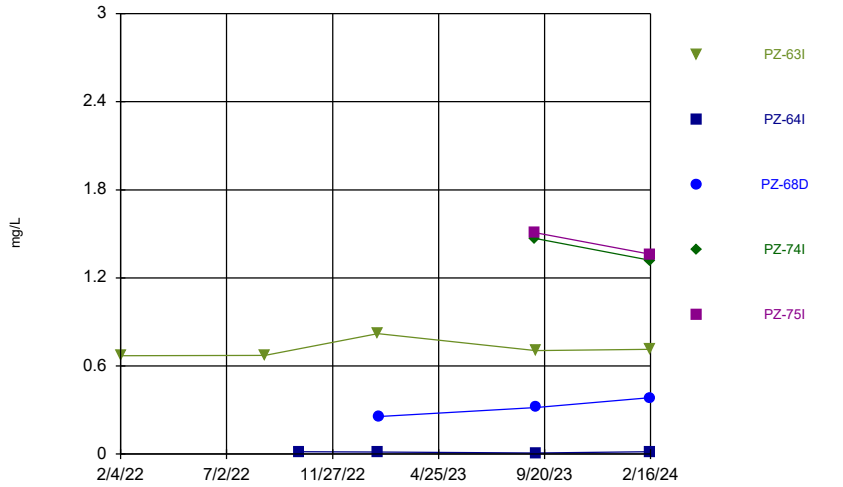

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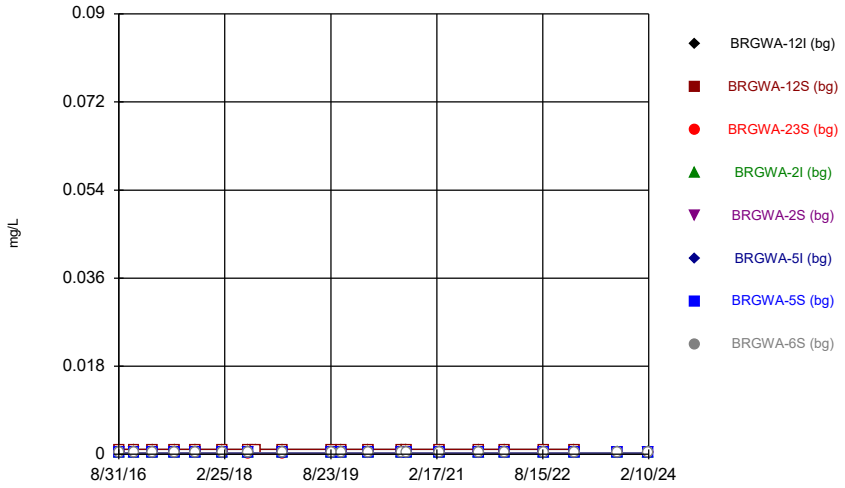

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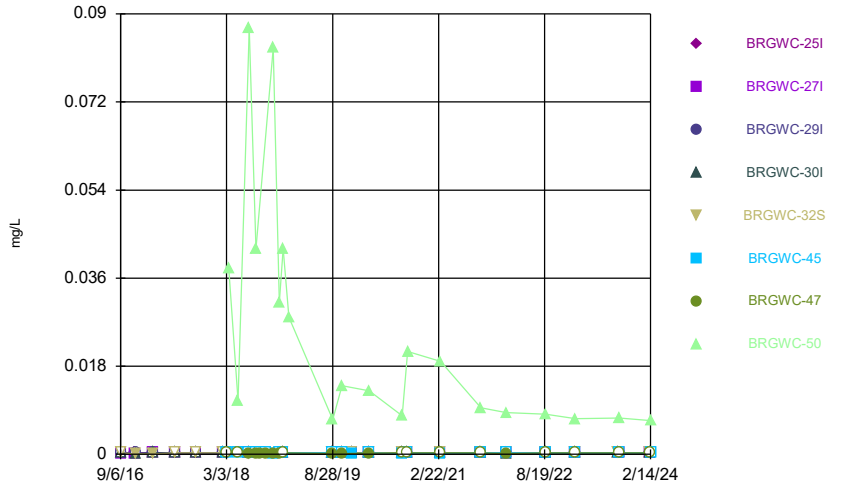

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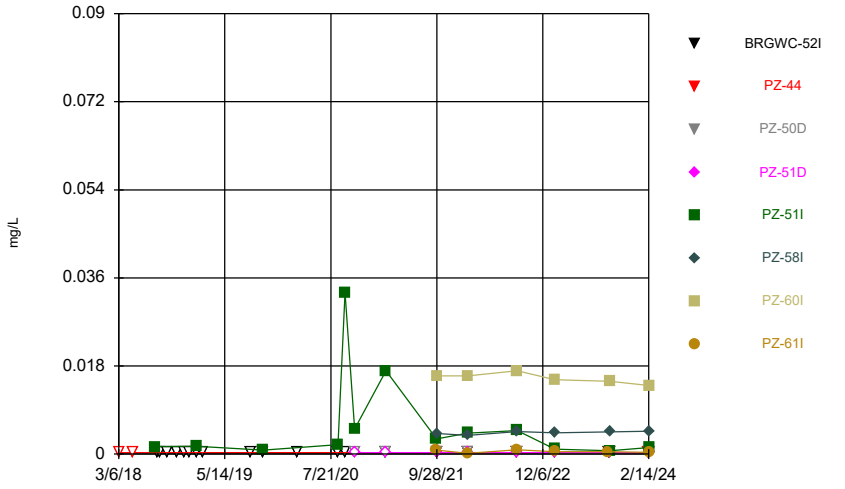

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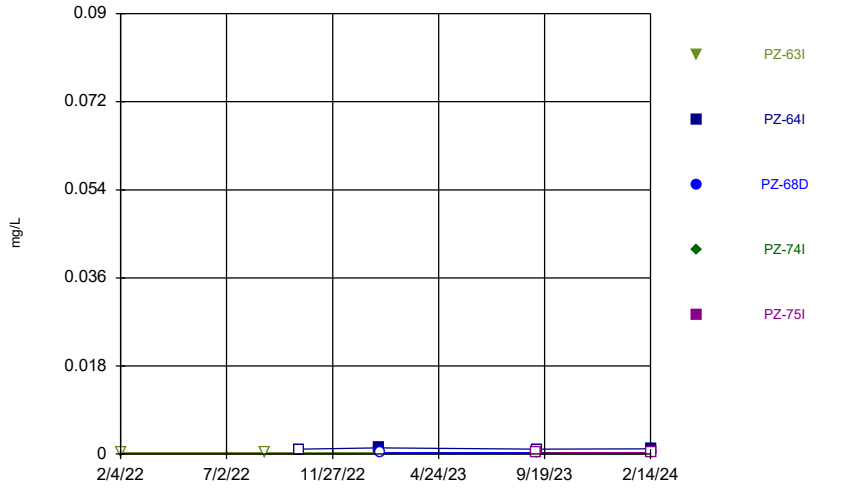

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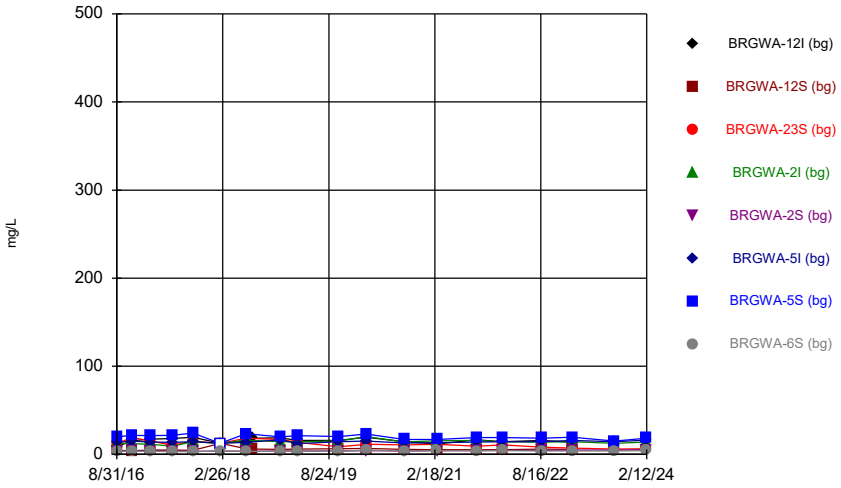

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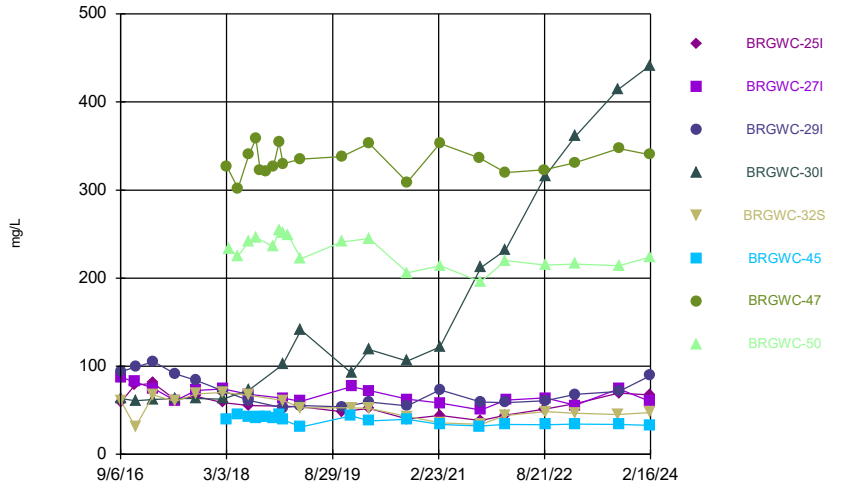
Time Series



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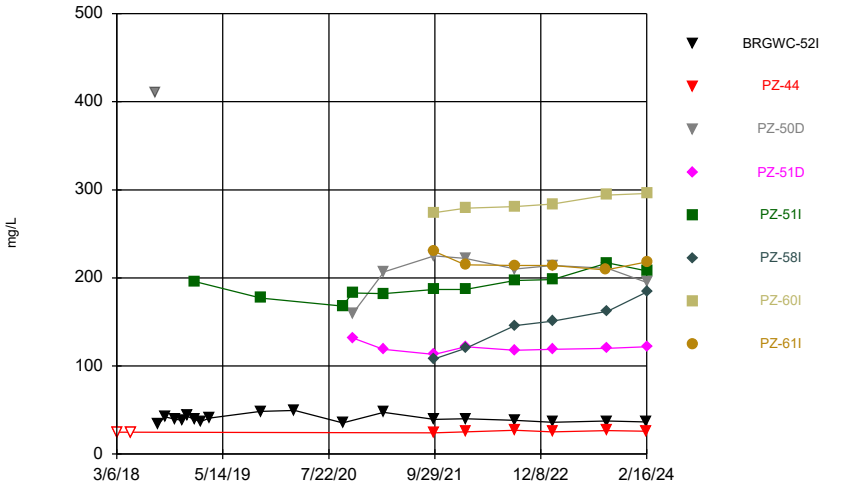

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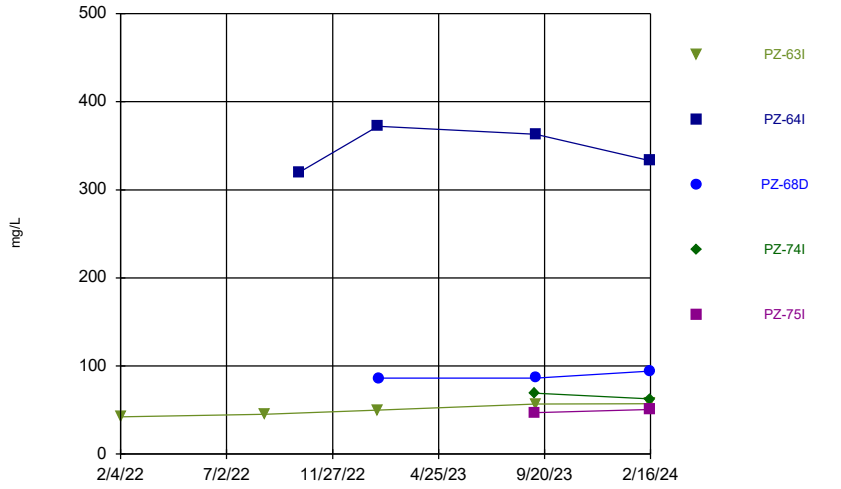

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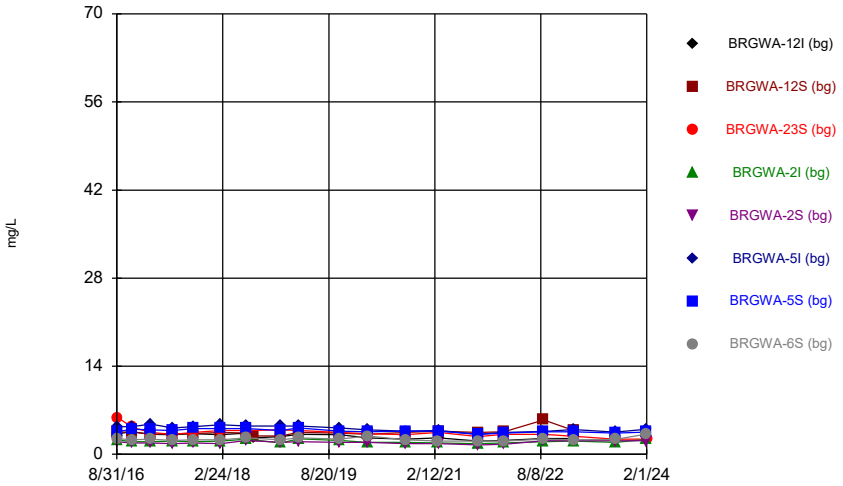
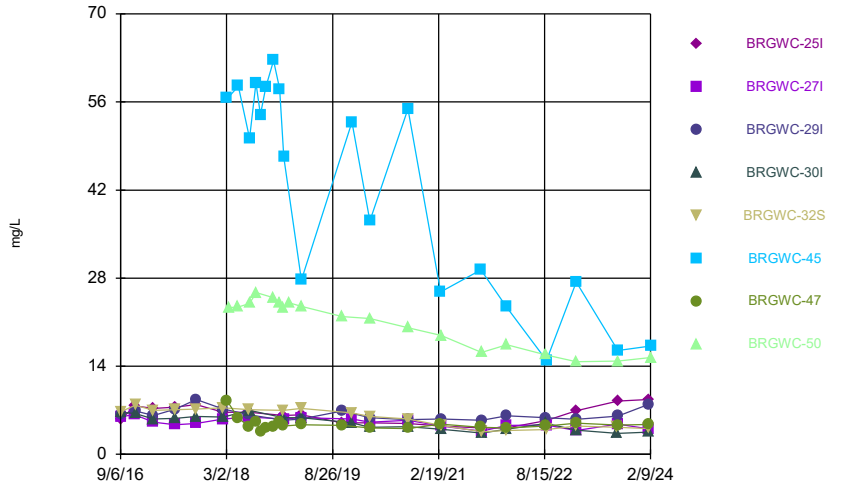
Time Series



Constituent: Chloride Analysis Run 4/5/2024 1:37 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

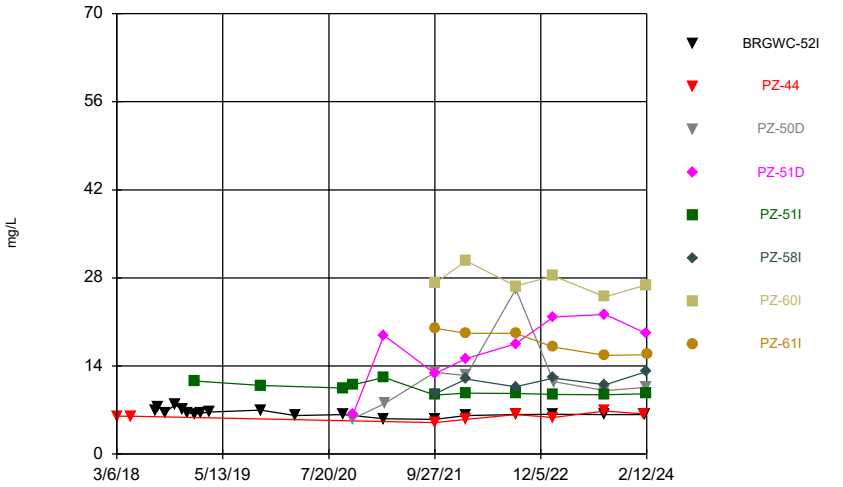
Time Series



Constituent: Chloride Analysis Run 4/5/2024 1:37 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

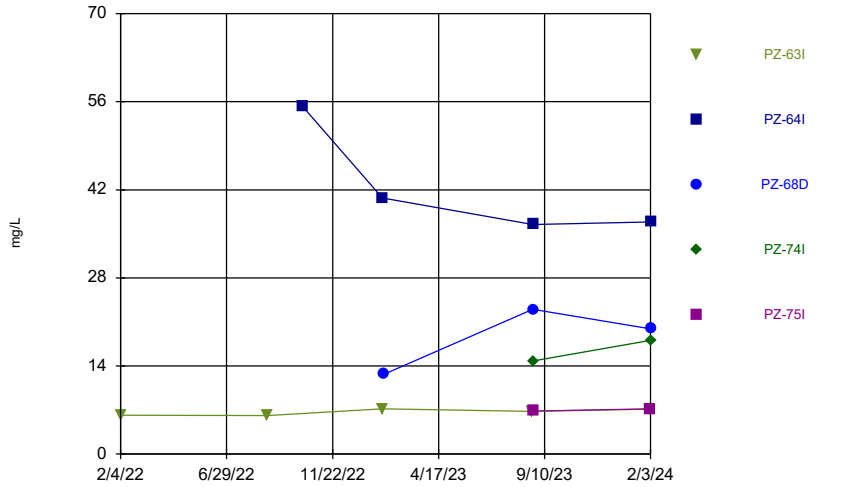
Time Series



Constituent: Chloride Analysis Run 4/5/2024 1:37 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

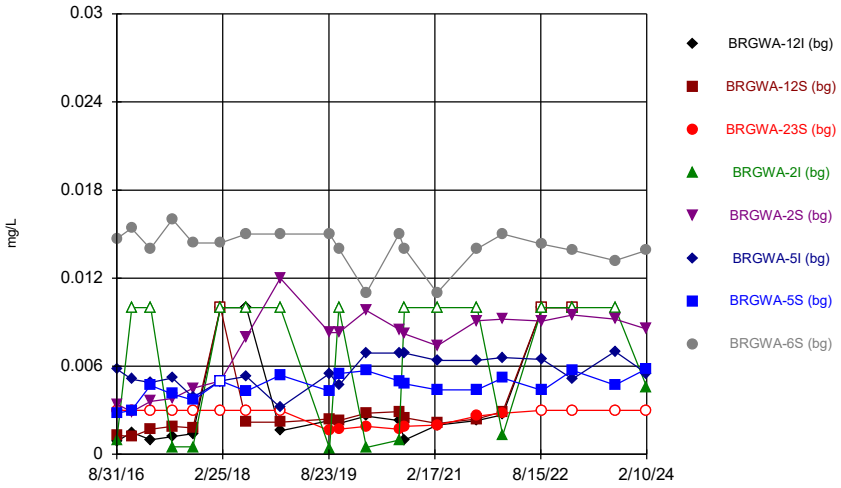
Time Series



Constituent: Chloride Analysis Run 4/5/2024 1:37 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

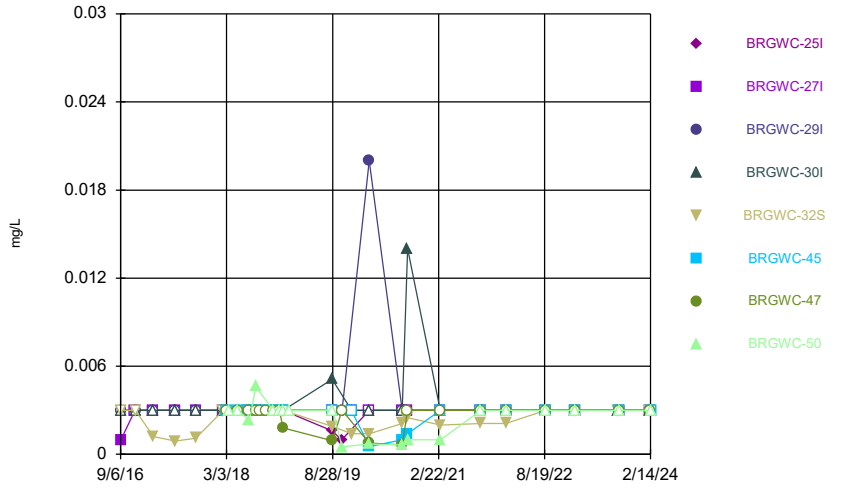
Time Series



Constituent: Chromium Analysis Run 4/5/2024 1:37 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

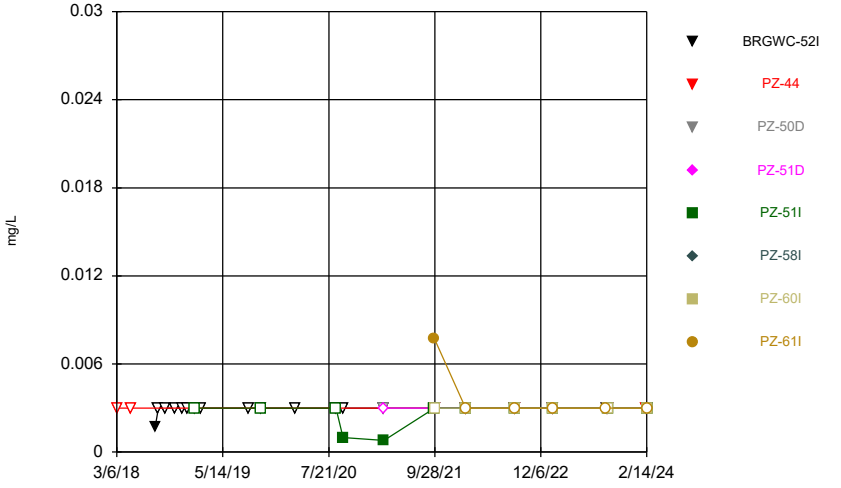
Time Series



Constituent: Chromium Analysis Run 4/5/2024 1:37 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

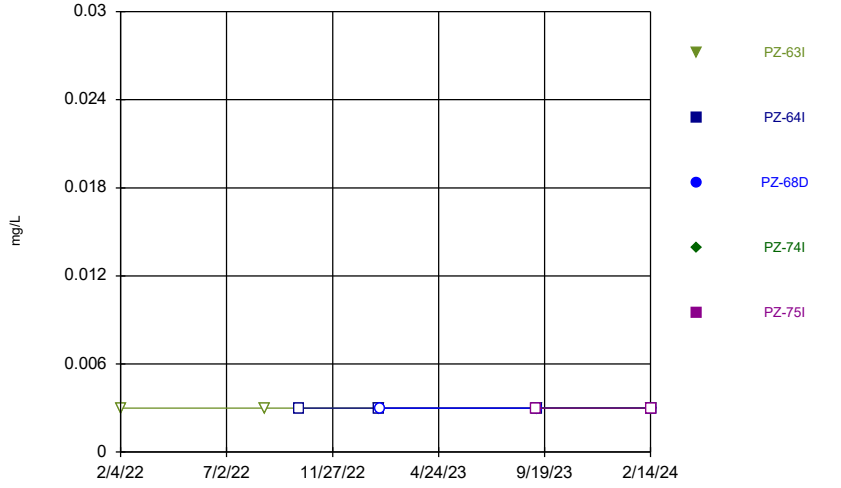
Time Series



Constituent: Chromium Analysis Run 4/5/2024 1:37 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

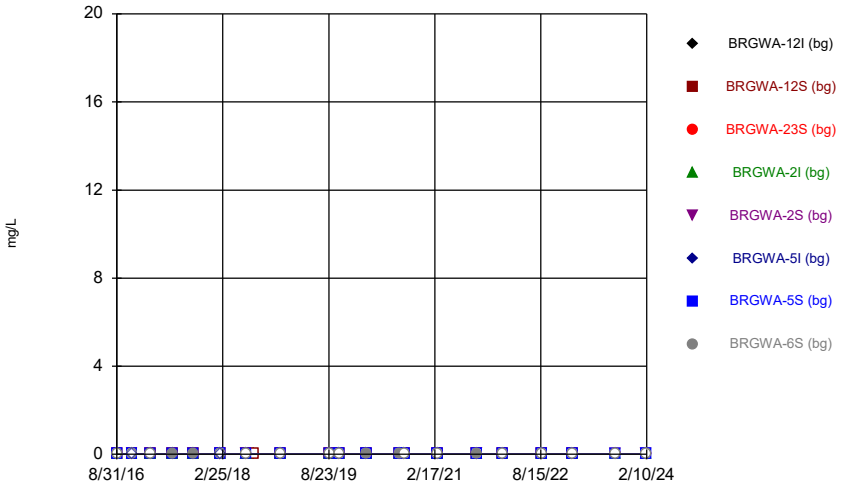
Time Series



Constituent: Chromium Analysis Run 4/5/2024 1:37 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

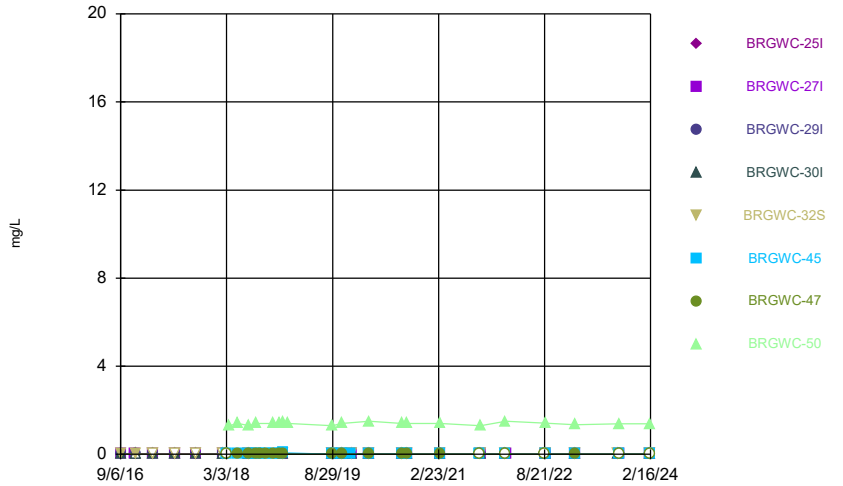
Time Series



Constituent: Cobalt Analysis Run 4/5/2024 1:37 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

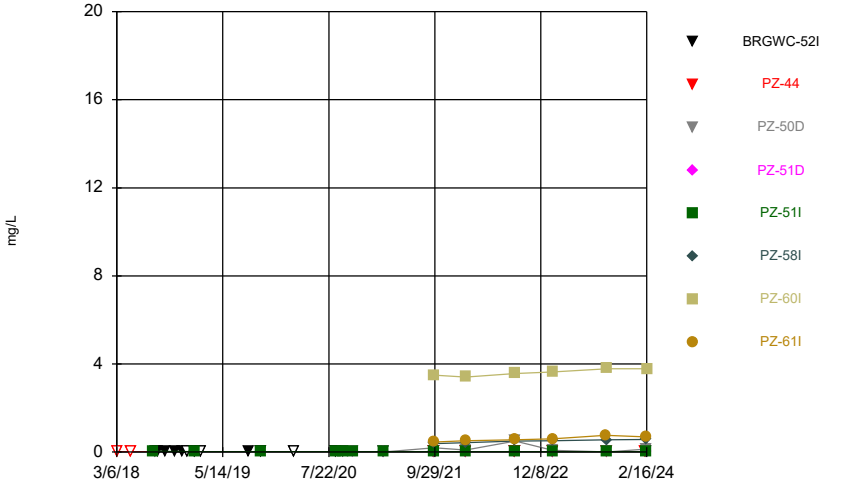
Time Series



Constituent: Cobalt Analysis Run 4/5/2024 1:37 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

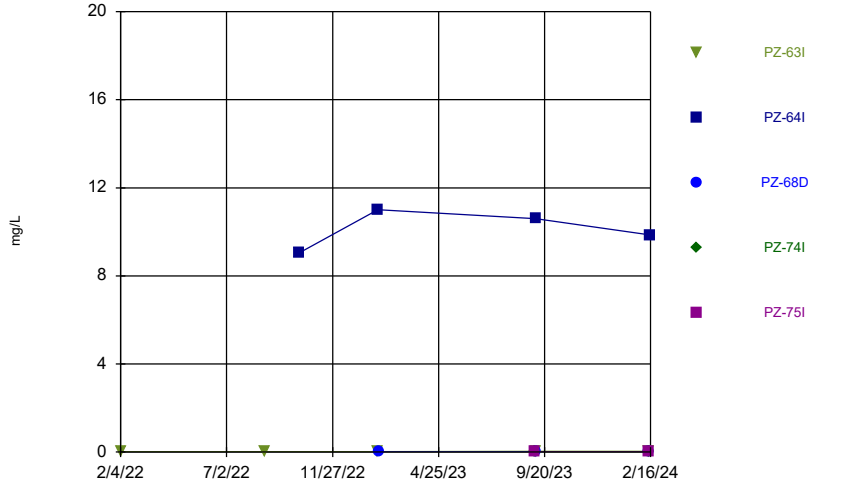
Time Series



Constituent: Cobalt Analysis Run 4/5/2024 1:37 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

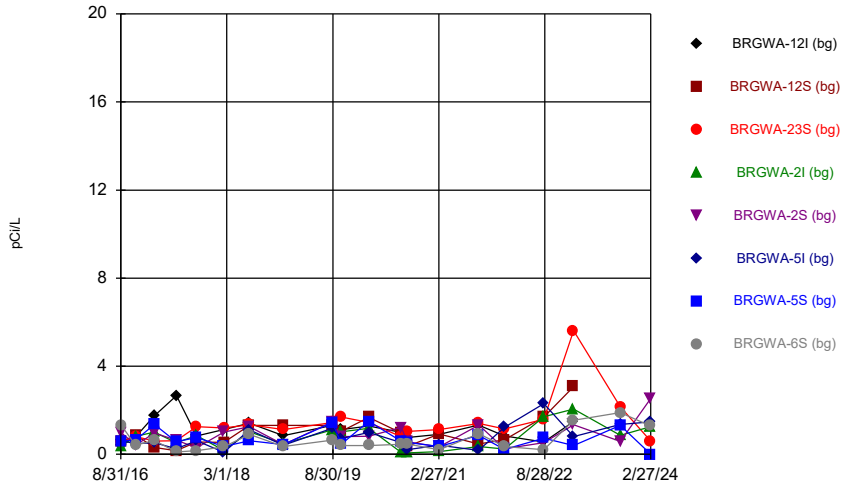
Time Series



Constituent: Cobalt Analysis Run 4/5/2024 1:38 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

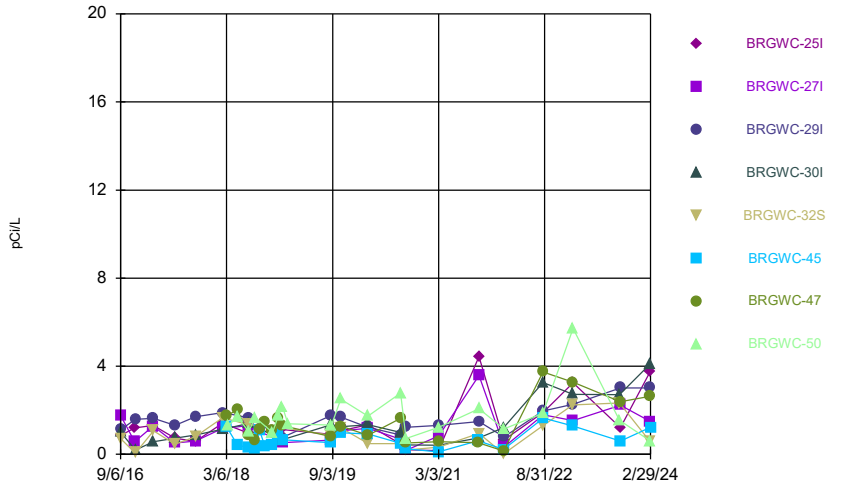
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 4/5/2024 1:38 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

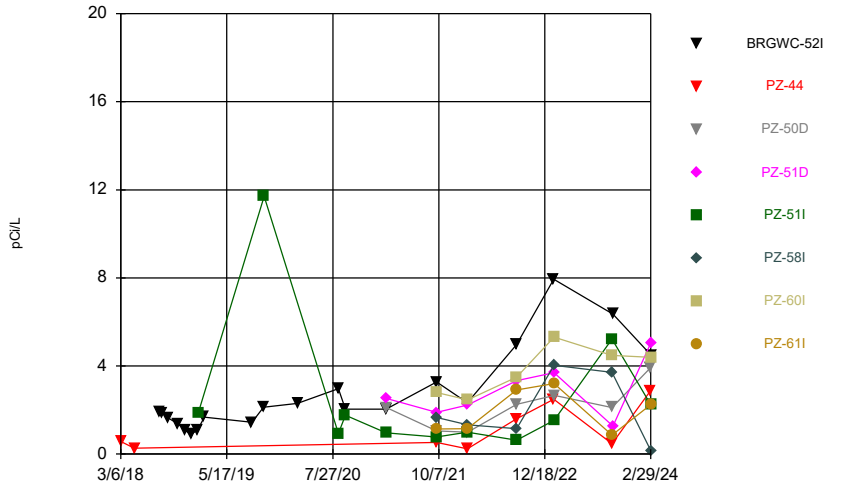
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 4/5/2024 1:38 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

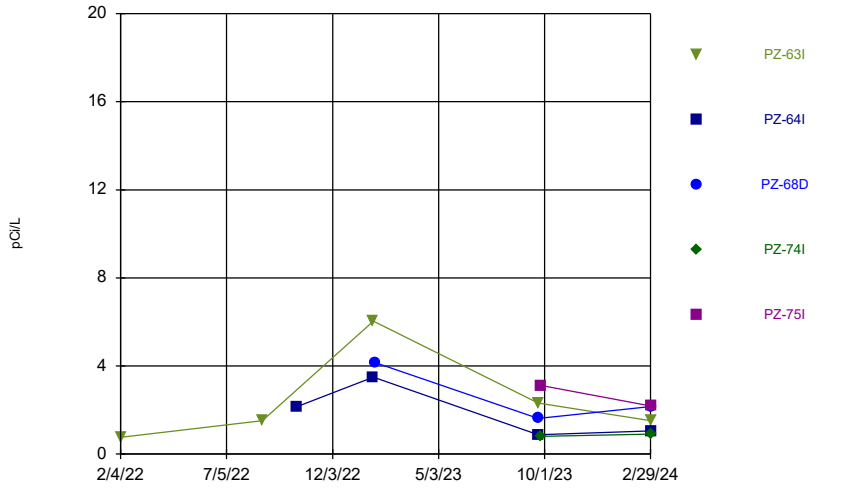
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 4/5/2024 1:38 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

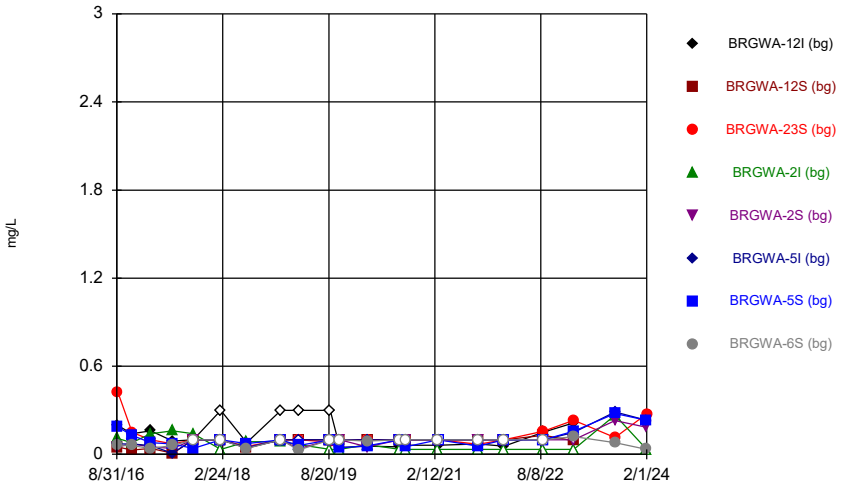
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 4/5/2024 1:38 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

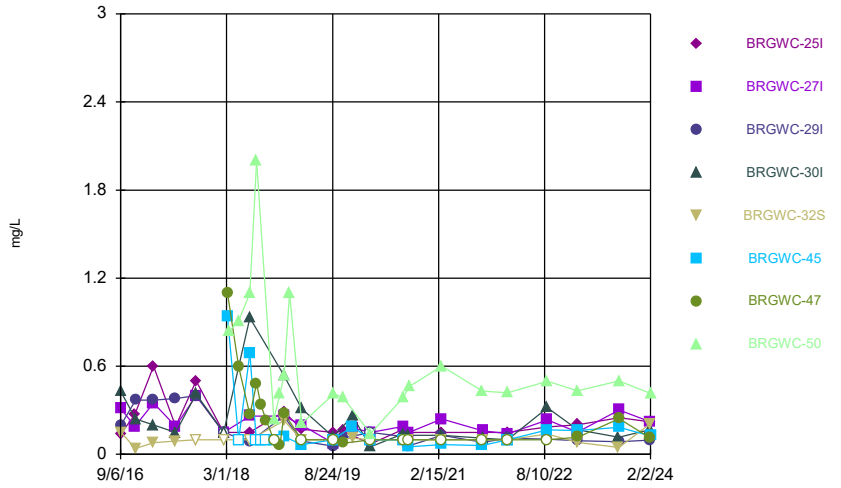
Time Series



Constituent: Fluoride Analysis Run 4/5/2024 1:38 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

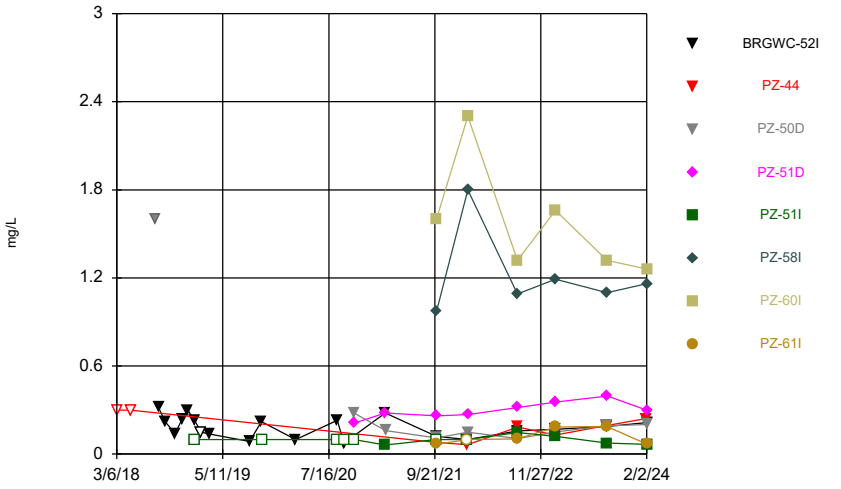
Time Series



Constituent: Fluoride Analysis Run 4/5/2024 1:38 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

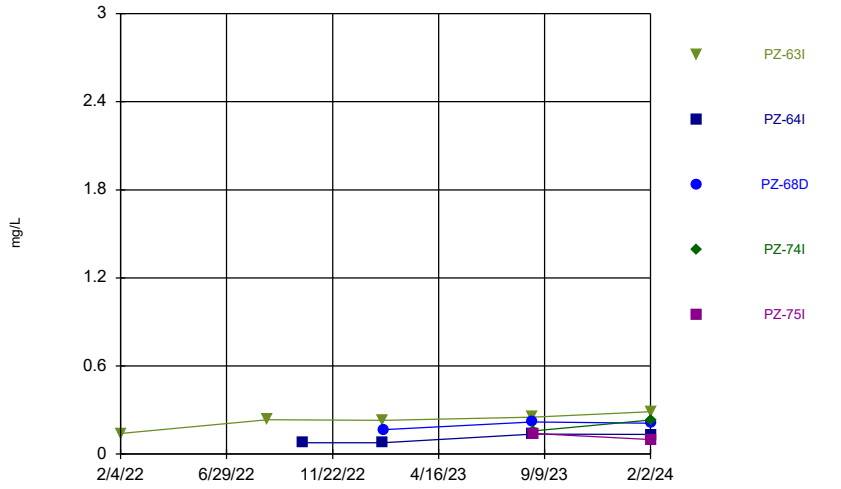
Time Series



Constituent: Fluoride Analysis Run 4/5/2024 1:38 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

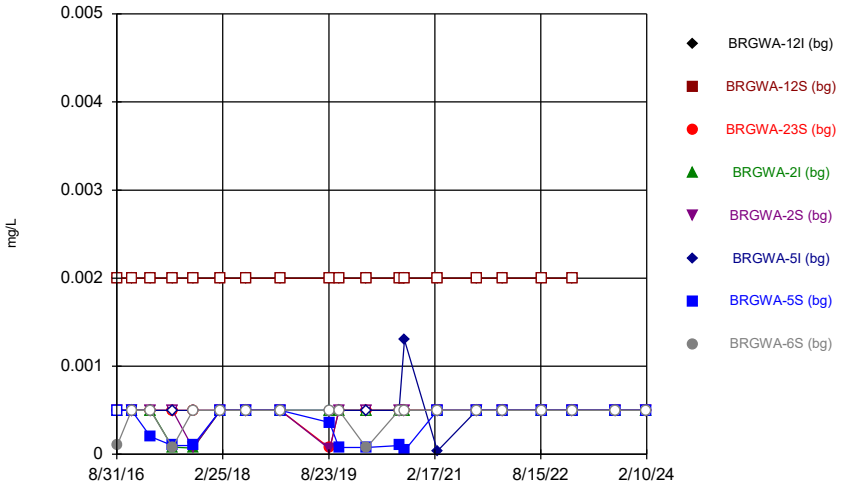
Time Series



Constituent: Fluoride Analysis Run 4/5/2024 1:38 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

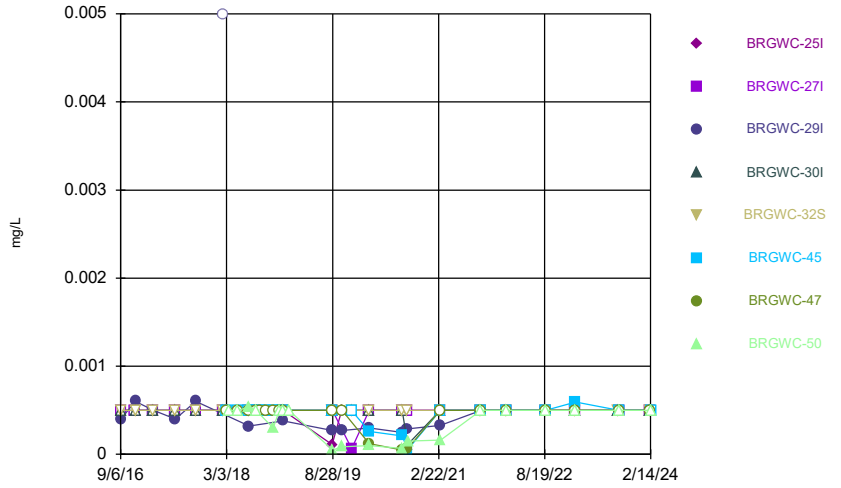
Time Series



Constituent: Lead Analysis Run 4/5/2024 1:38 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

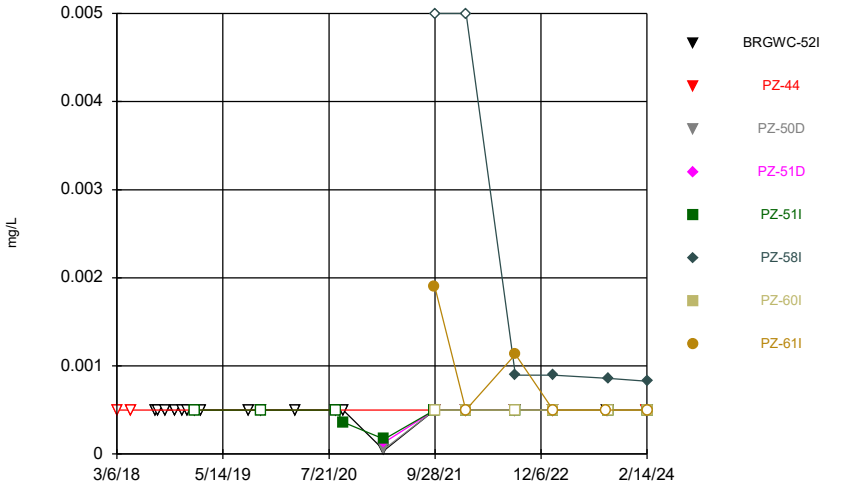
Time Series



Constituent: Lead Analysis Run 4/5/2024 1:38 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

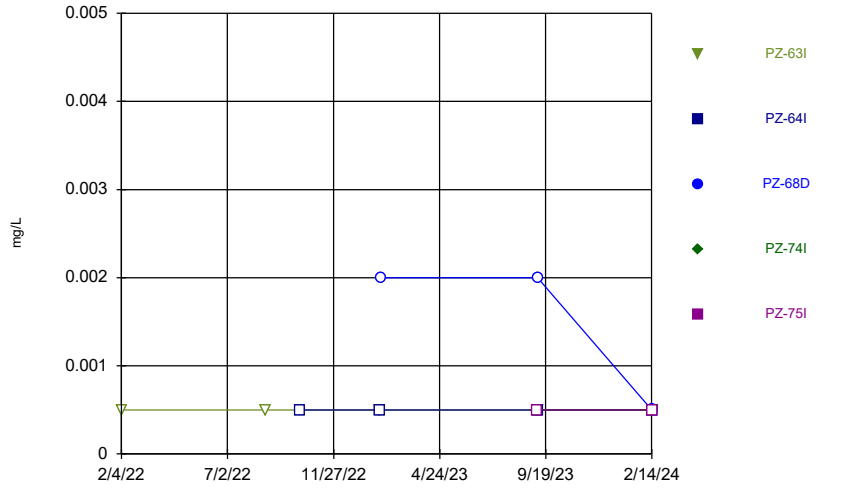
Time Series



Constituent: Lead Analysis Run 4/5/2024 1:38 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

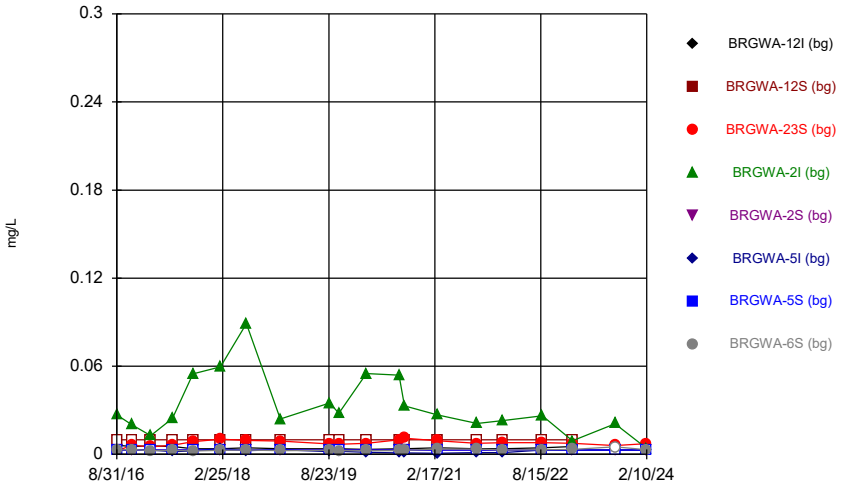
Time Series



Constituent: Lead Analysis Run 4/5/2024 1:38 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

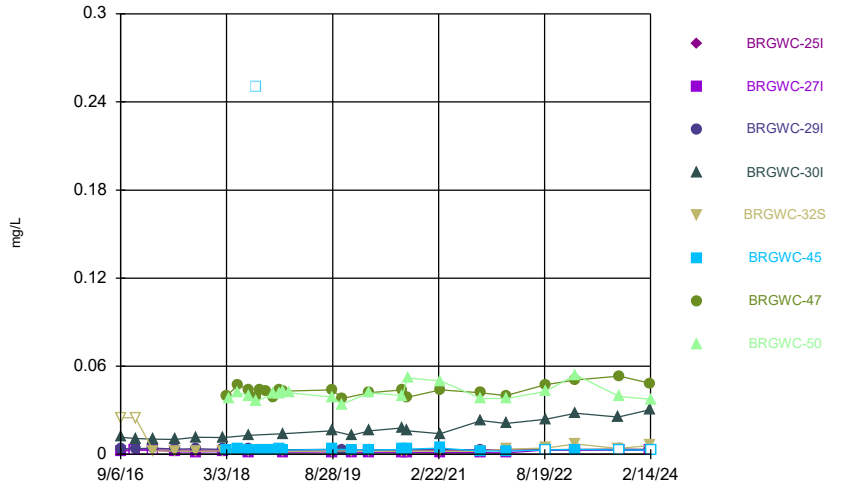
Time Series



Constituent: Lithium Analysis Run 4/5/2024 1:38 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

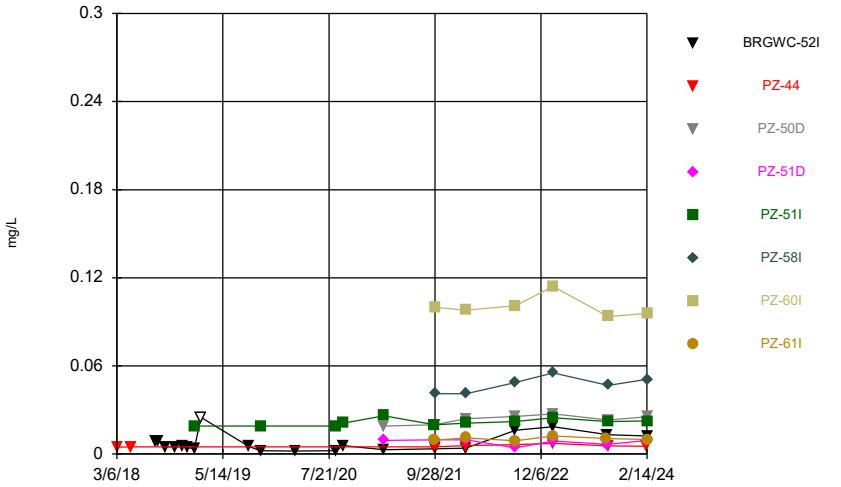
Time Series



Constituent: Lithium Analysis Run 4/5/2024 1:38 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

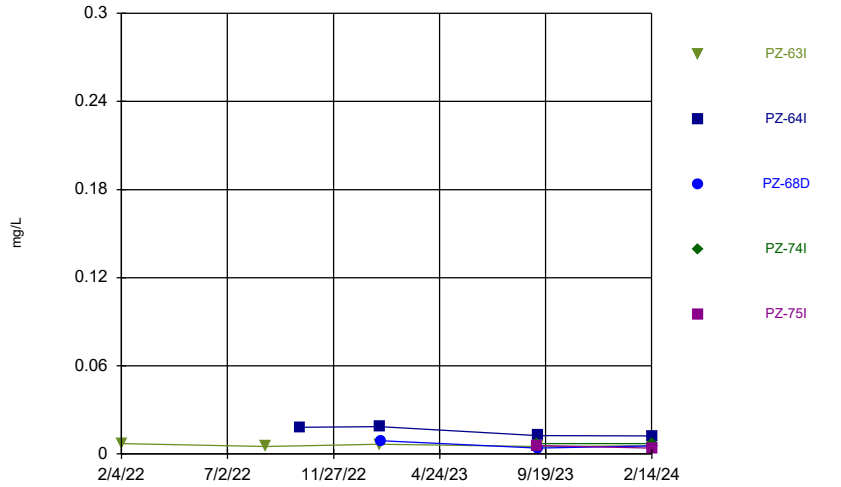
Time Series



Constituent: Lithium Analysis Run 4/5/2024 1:38 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

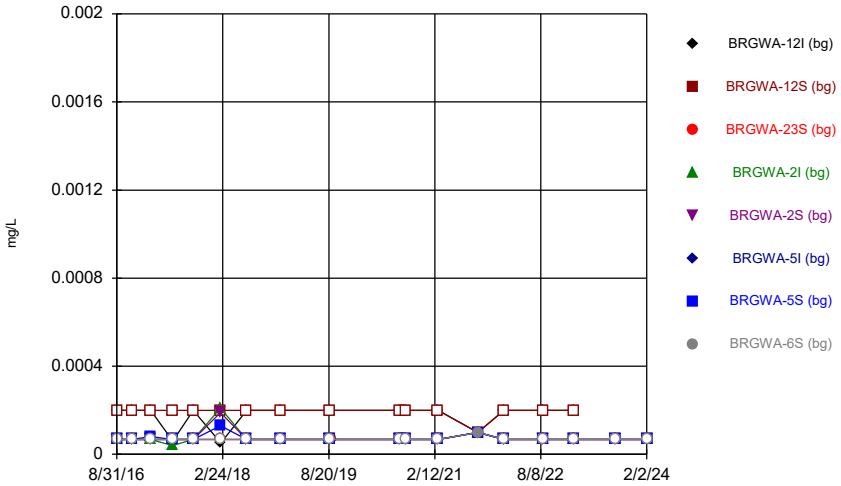
Time Series



Constituent: Lithium Analysis Run 4/5/2024 1:38 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

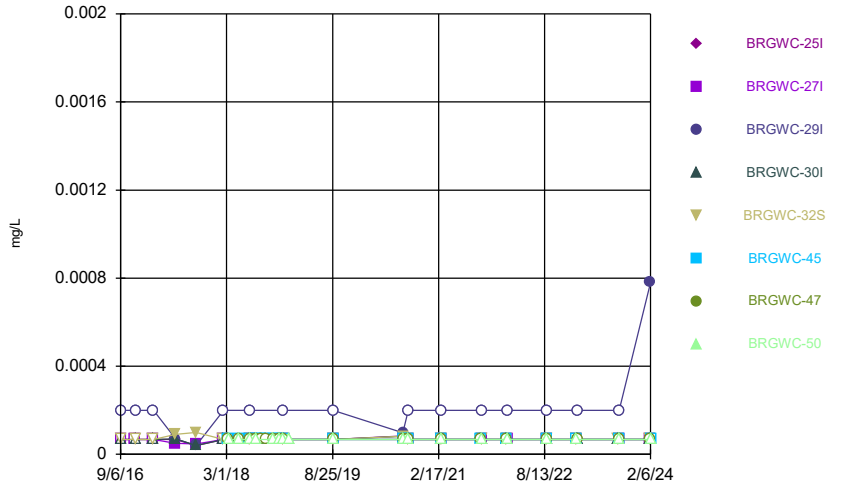
Time Series



Constituent: Mercury Analysis Run 4/5/2024 1:38 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

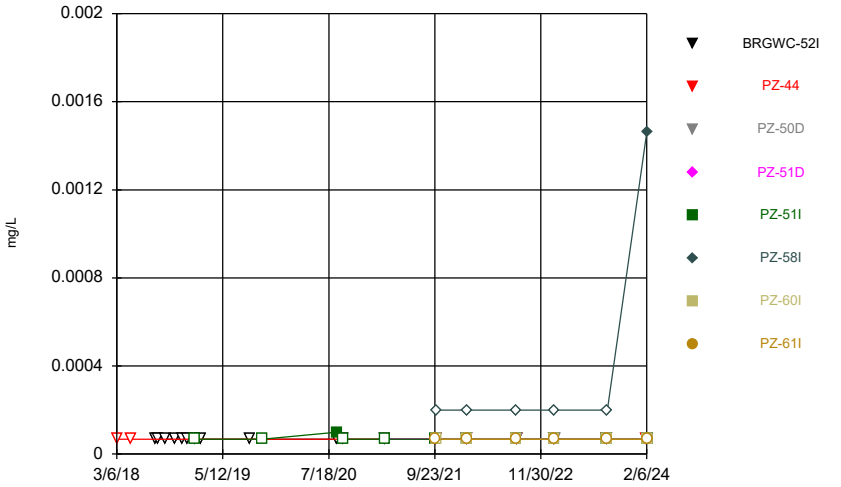
Time Series



Constituent: Mercury Analysis Run 4/5/2024 1:38 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

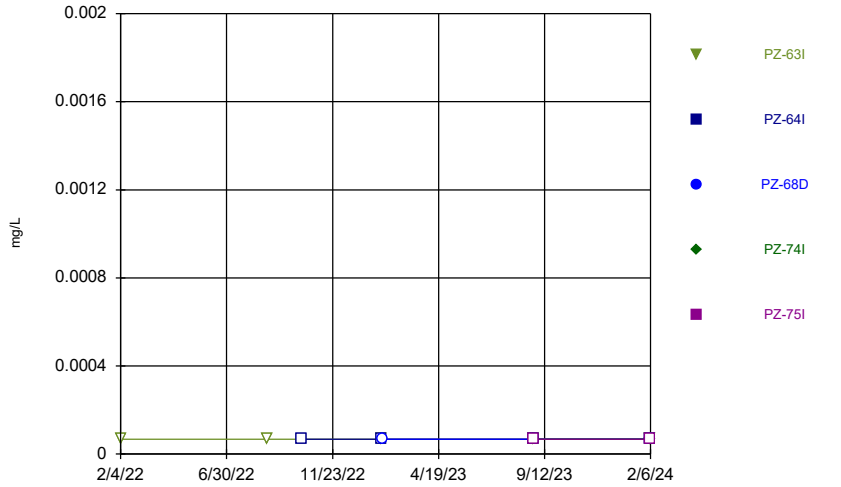
Time Series



Constituent: Mercury Analysis Run 4/5/2024 1:38 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

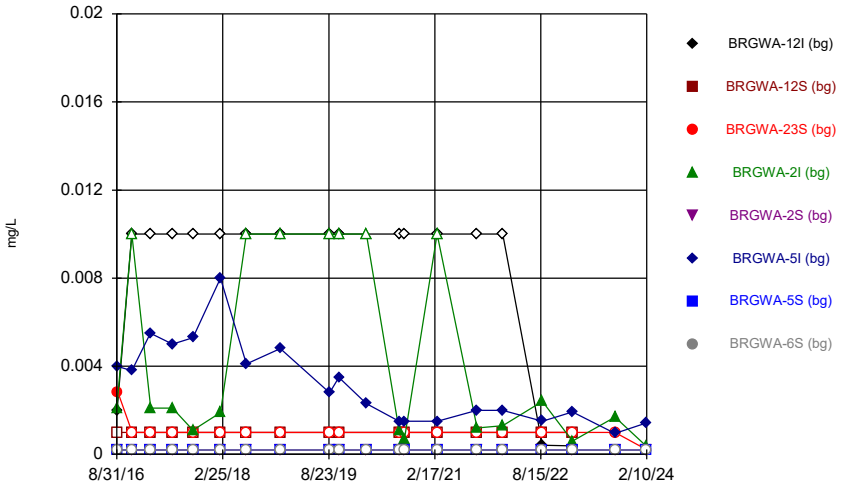
Time Series



Constituent: Mercury Analysis Run 4/5/2024 1:38 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

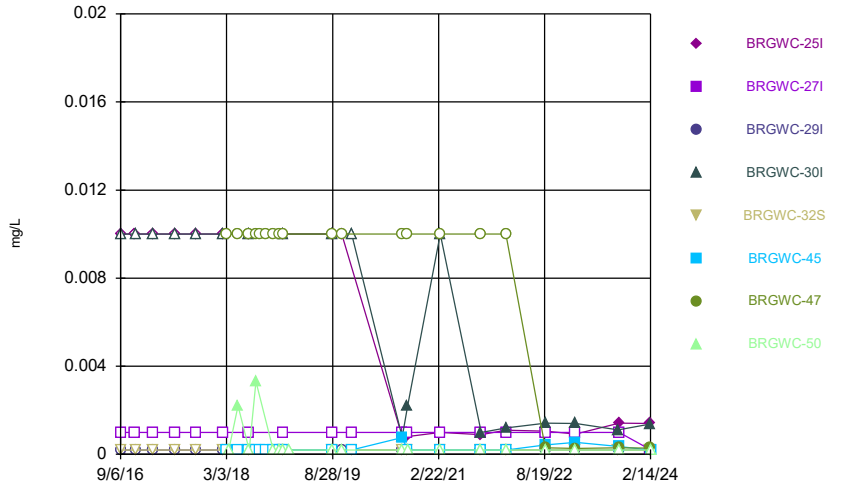
Time Series



Constituent: Molybdenum Analysis Run 4/5/2024 1:38 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

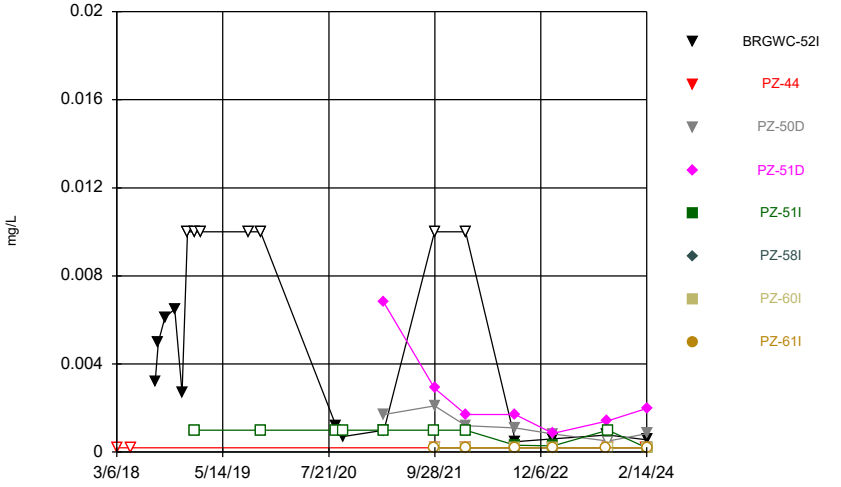
Time Series



Constituent: Molybdenum Analysis Run 4/5/2024 1:38 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

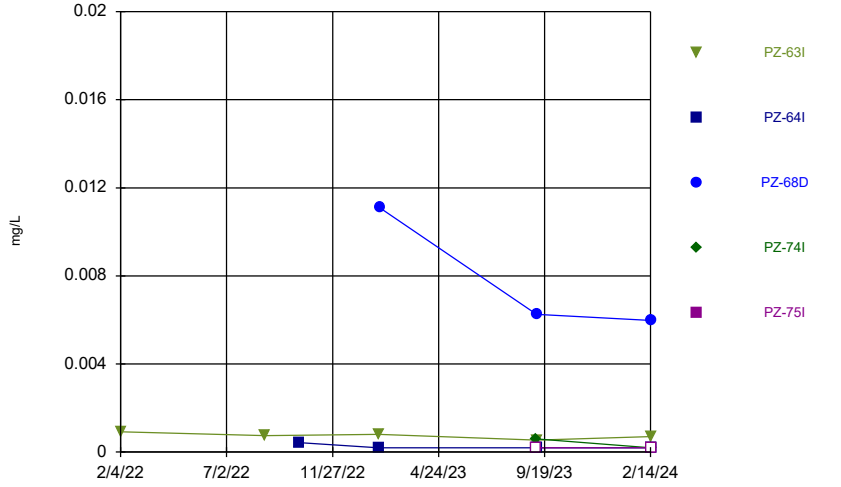
Time Series



Constituent: Molybdenum Analysis Run 4/5/2024 1:38 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

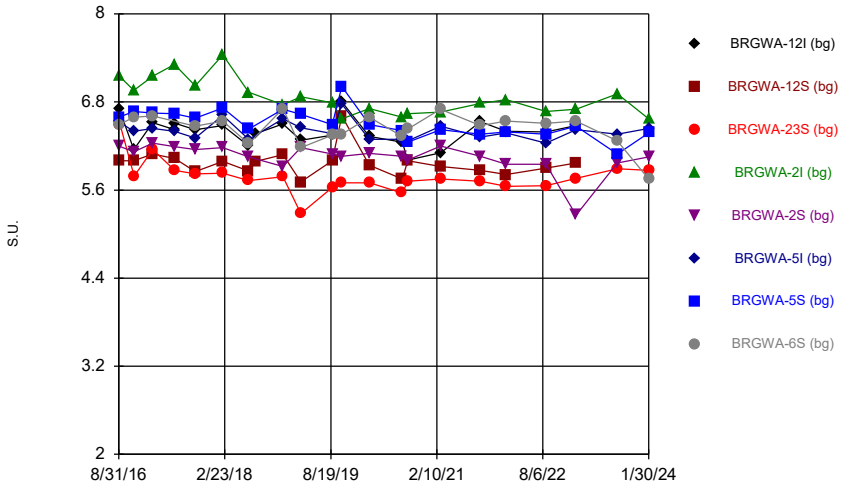
Time Series



Constituent: Molybdenum Analysis Run 4/5/2024 1:38 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

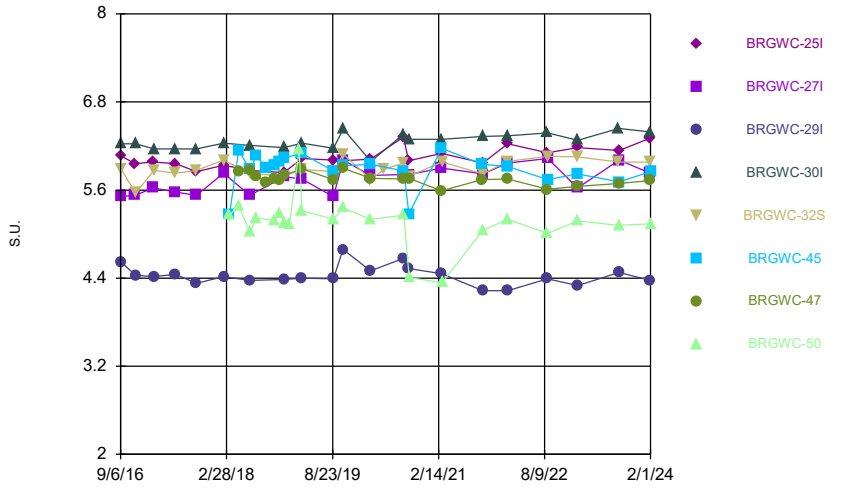
Time Series



Constituent: pH, Field Analysis Run 4/5/2024 1:38 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

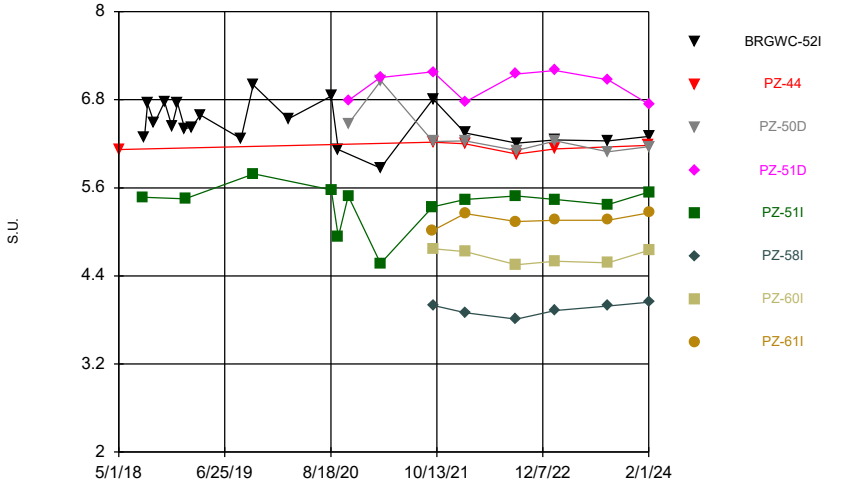
Time Series



Constituent: pH, Field Analysis Run 4/5/2024 1:38 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

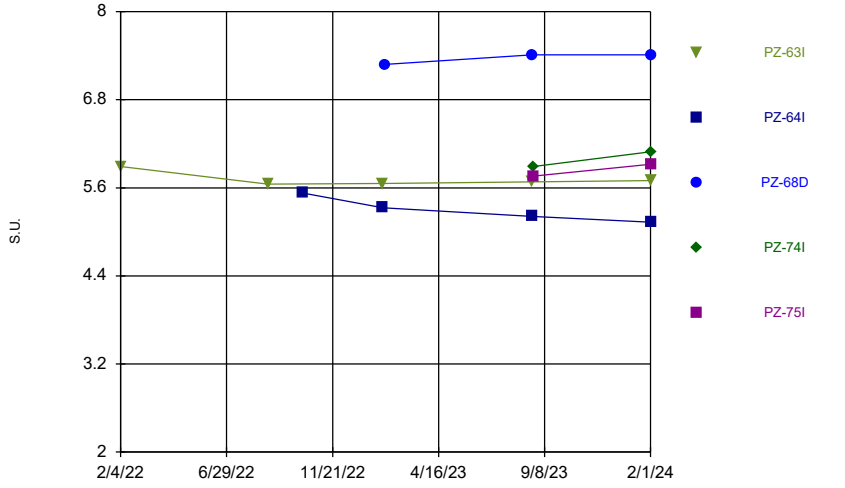
Time Series



Constituent: pH, Field Analysis Run 4/5/2024 1:38 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

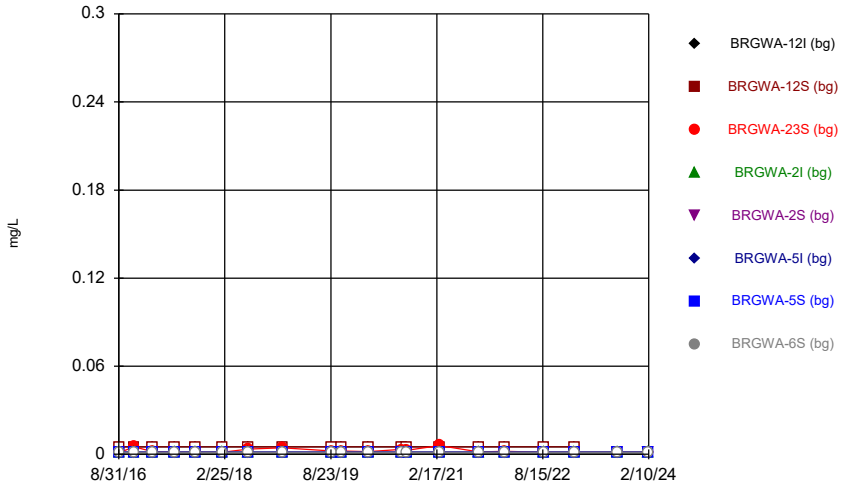
Time Series



Constituent: pH, Field Analysis Run 4/5/2024 1:38 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

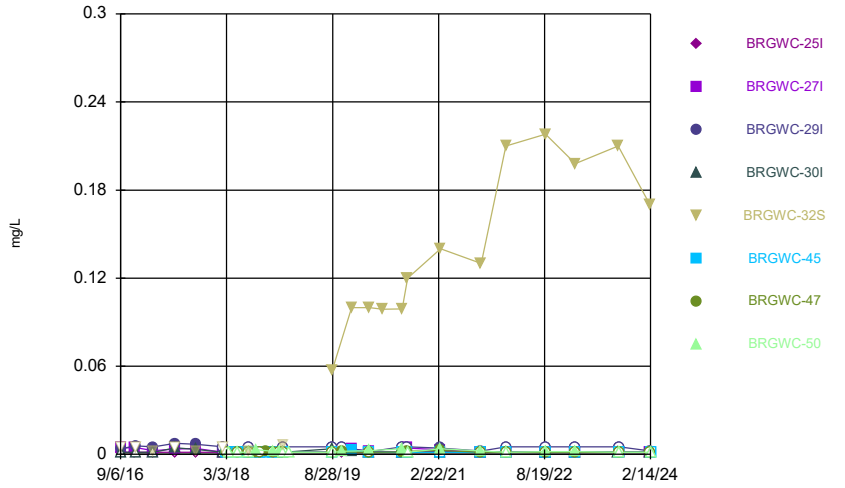
Time Series



Constituent: Selenium Analysis Run 4/5/2024 1:38 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

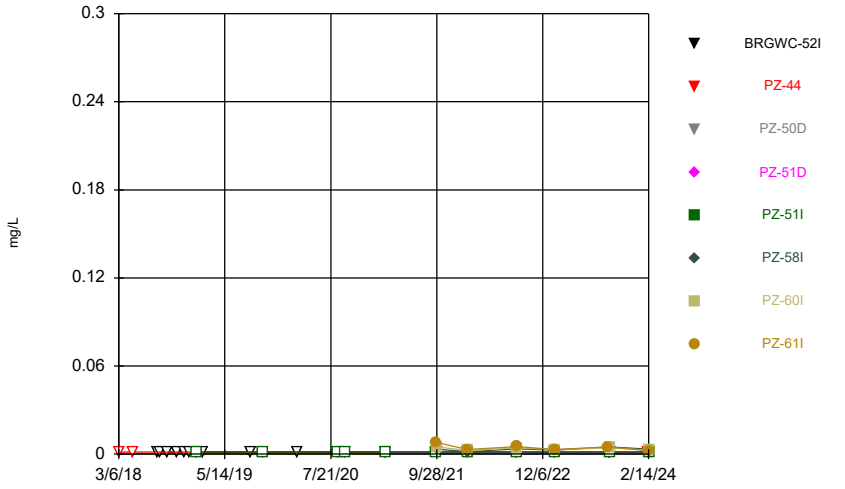
Time Series



Constituent: Selenium Analysis Run 4/5/2024 1:38 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

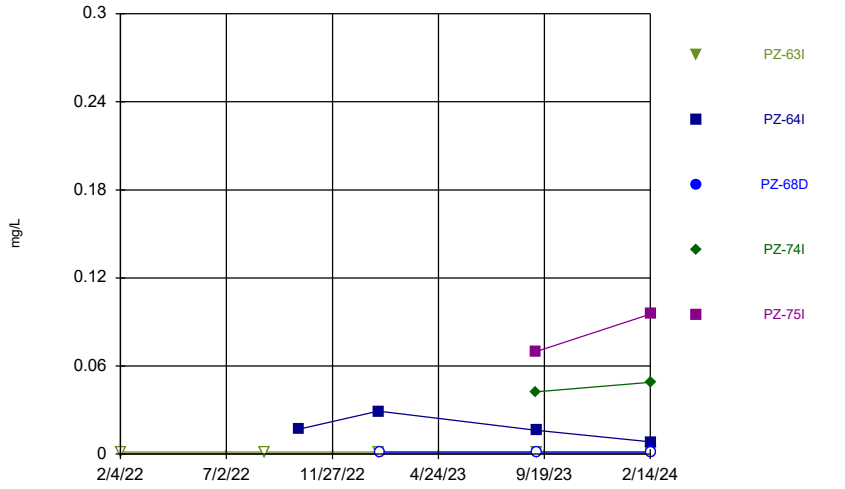
Time Series



Constituent: Selenium Analysis Run 4/5/2024 1:38 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

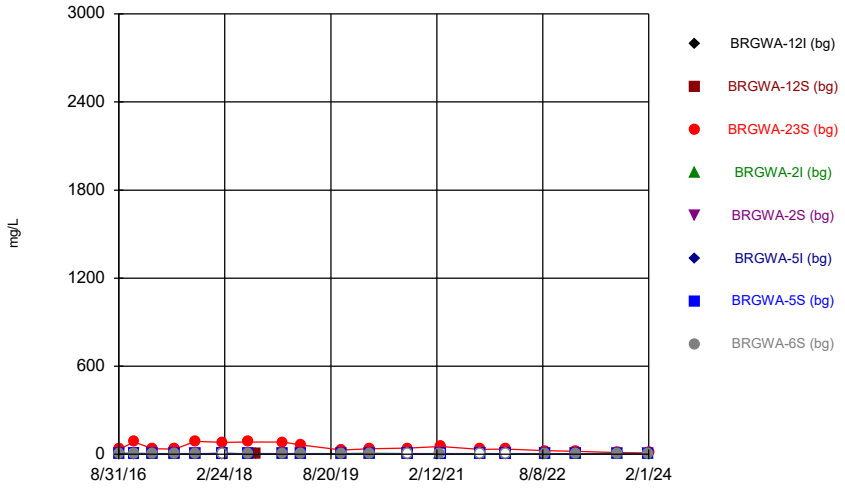
Time Series



Constituent: Selenium Analysis Run 4/5/2024 1:38 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

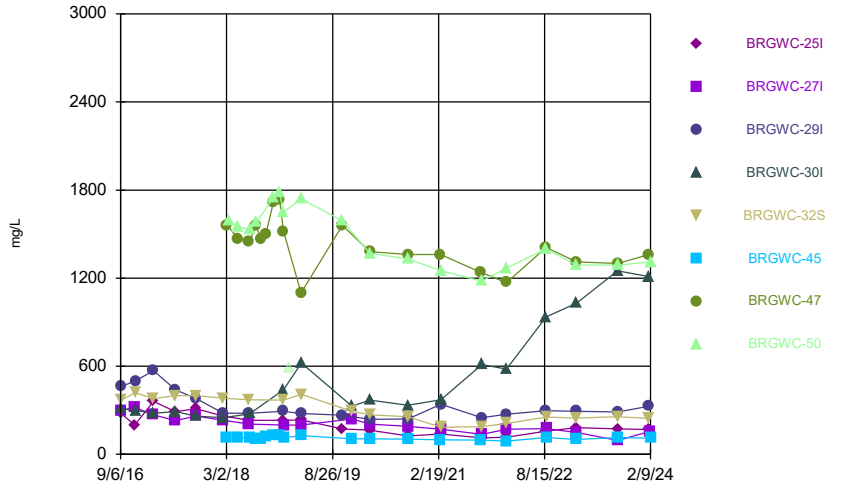
Time Series



Constituent: Sulfate Analysis Run 4/5/2024 1:38 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

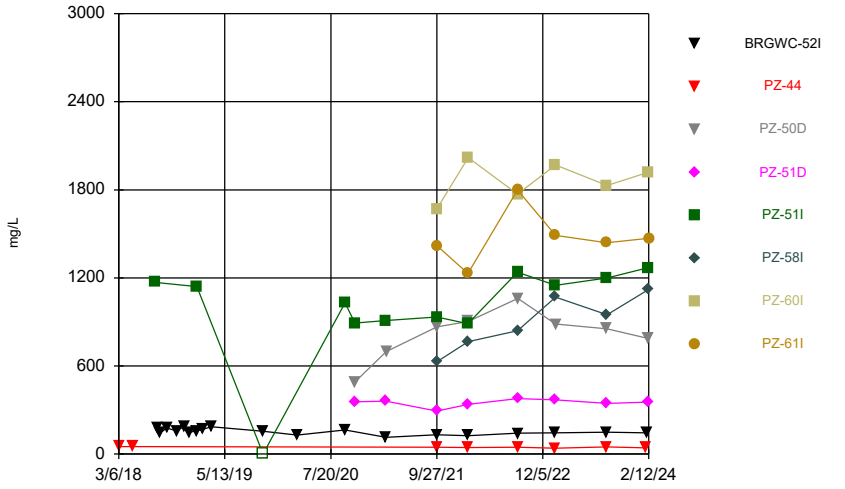
Time Series



Constituent: Sulfate Analysis Run 4/5/2024 1:38 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

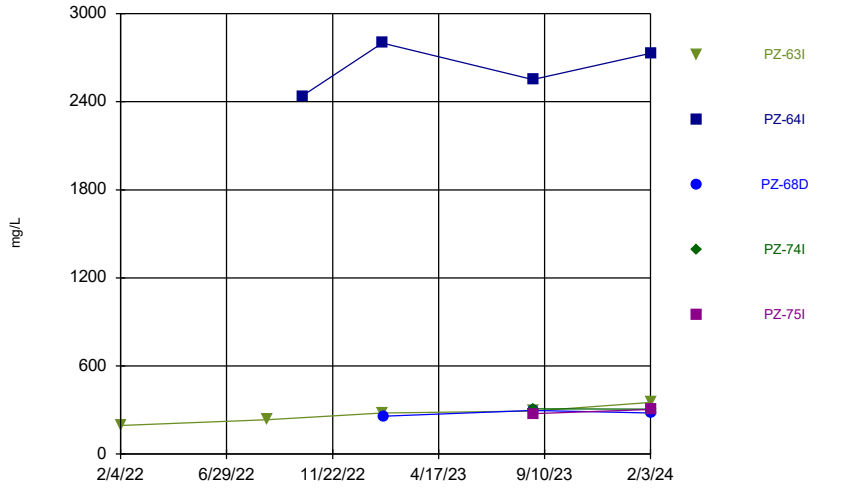
Time Series



Constituent: Sulfate Analysis Run 4/5/2024 1:38 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

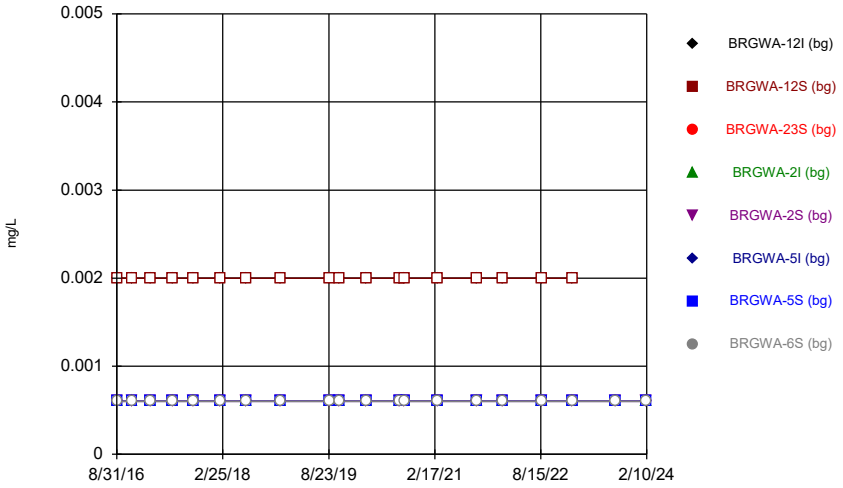
Time Series



Constituent: Sulfate Analysis Run 4/5/2024 1:38 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

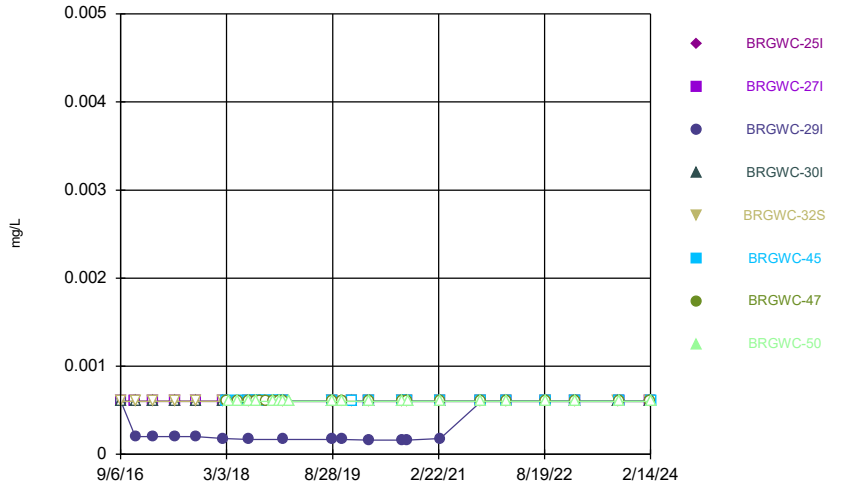
Time Series



Constituent: Thallium Analysis Run 4/5/2024 1:38 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

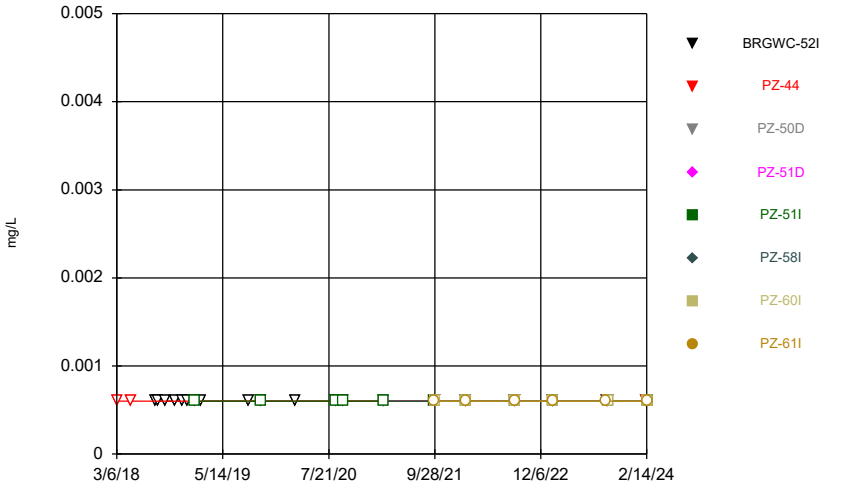
Time Series



Constituent: Thallium Analysis Run 4/5/2024 1:38 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

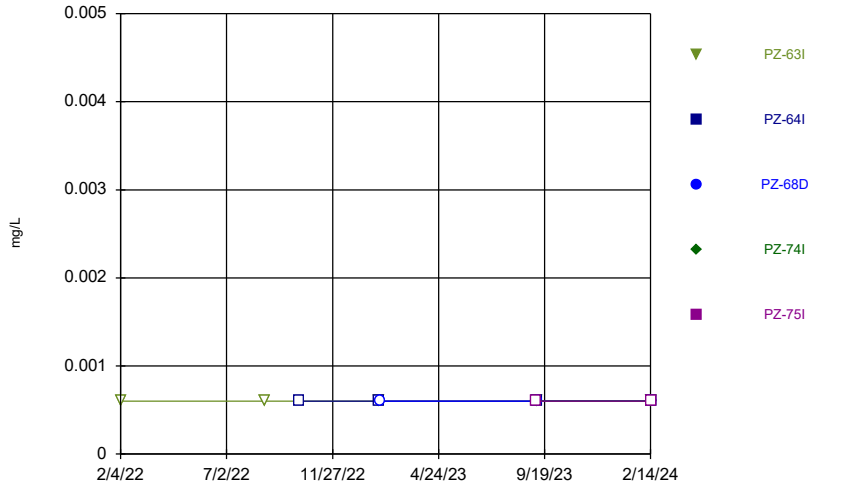
Time Series



Constituent: Thallium Analysis Run 4/5/2024 1:38 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

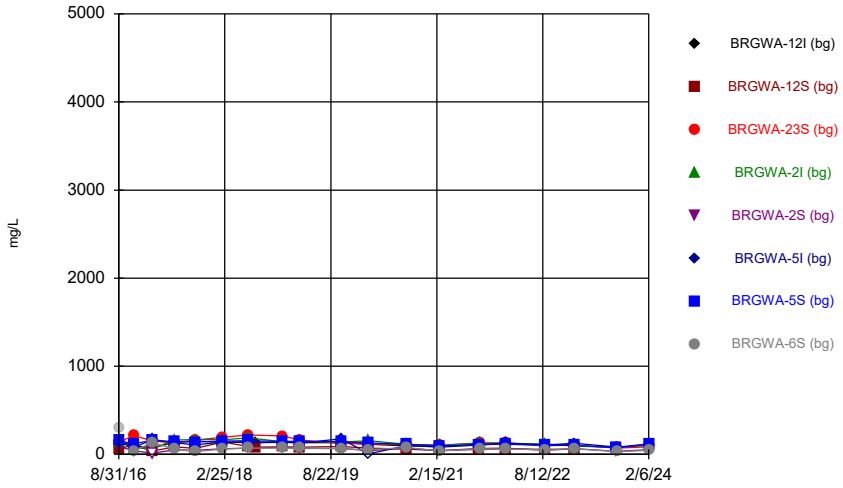
Time Series



Constituent: Thallium Analysis Run 4/5/2024 1:38 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

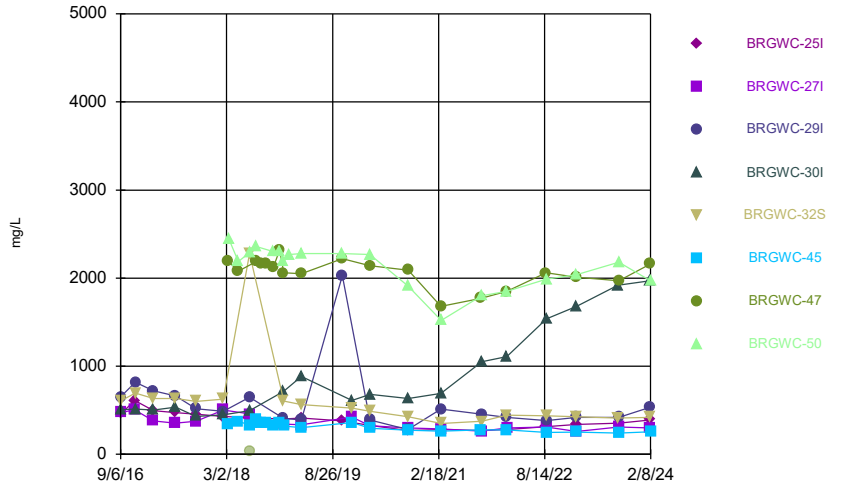
Time Series



Constituent: Total Dissolved Solids Analysis Run 4/5/2024 1:38 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

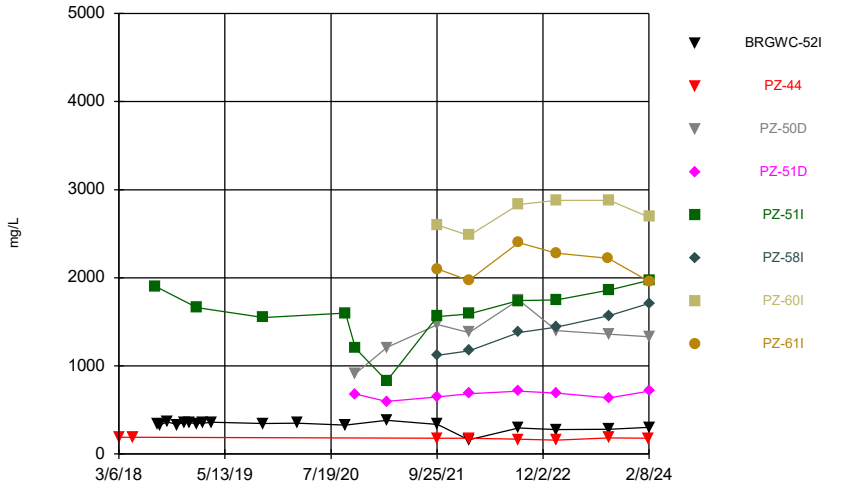
Time Series



Constituent: Total Dissolved Solids Analysis Run 4/5/2024 1:38 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

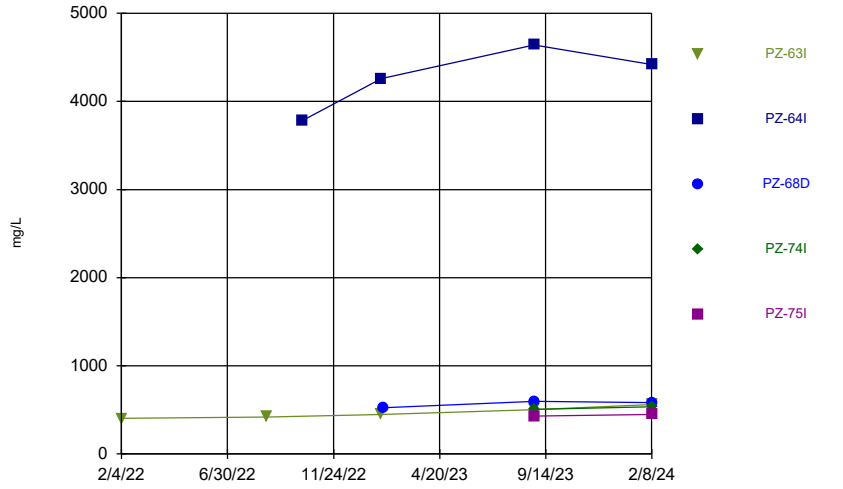
Time Series



Constituent: Total Dissolved Solids Analysis Run 4/5/2024 1:38 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Time Series



Constituent: Total Dissolved Solids Analysis Run 4/5/2024 1:38 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/5/2024 1:39 PM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-12I (bg)	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)
8/31/2016				0.0009 (J)	<0.001	<0.001	<0.001	
9/1/2016	0.0015 (J)	<0.003						<0.001
9/6/2016			<0.001					
11/15/2016							<0.001	<0.001
11/16/2016	<0.003	0.0011 (J)		<0.001	<0.001	<0.001		
11/17/2016			<0.001					
2/20/2017						<0.001	<0.001	<0.001
2/21/2017	<0.003	<0.003	<0.001	<0.001	<0.001			
6/12/2017				<0.001		<0.001	<0.001	<0.001
6/13/2017		0.0009 (J)	<0.001		0.0011 (J)			
6/14/2017	0.0014 (J)							
9/26/2017	<0.003	0.0032	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2/13/2018				<0.001	<0.001	<0.001	<0.001	<0.001
2/14/2018	<0.003	<0.003	<0.001					
6/26/2018	<0.003	<0.003	0.002 (J)	<0.001	<0.001	<0.001	<0.001	<0.001
12/18/2018	0.009	<0.003	<0.001	<0.001	<0.001	<0.001	0.00087 (J)	<0.001
8/27/2019	0.0072	<0.003		<0.001	<0.001	<0.001	<0.001	<0.001
8/29/2019			<0.001					
10/15/2019	0.012	<0.003	<0.001	0.00047 (J)	<0.001	<0.001	<0.001	<0.001
3/3/2020	0.0063	<0.003		<0.001	<0.001	<0.001	<0.001	<0.001
3/4/2020			<0.001					
8/18/2020	0.0067	<0.003	<0.001	0.00054 (J)	0.00042 (J)	<0.001	0.0016 (J)	<0.001
9/15/2020	0.01	<0.003	0.00033 (J)	<0.001	<0.001	<0.001	<0.001	<0.001
3/1/2021				<0.001				<0.001
3/2/2021	0.0095	<0.003	<0.001		<0.001	<0.001	<0.001	
9/21/2021	0.017	<0.003				<0.001	<0.001	
9/22/2021			<0.001	<0.001	<0.001			<0.001
2/1/2022	0.011	<0.003	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
8/23/2022	0.0241	<0.003	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1/24/2023	0.0245	<0.003	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
8/31/2023			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2/10/2024			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/5/2024 1:39 PM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
9/6/2016				<0.001				
9/8/2016	<0.001	<0.001	<0.001		<0.001			
11/17/2016	<0.001							
11/18/2016		<0.001						
11/21/2016			<0.001	<0.001	<0.001			
2/21/2017	<0.001	<0.001						
2/22/2017			<0.001	<0.001	<0.001			
6/13/2017	<0.001	<0.001						
6/14/2017			0.0007 (J)	<0.001	<0.001			
9/27/2017	<0.001	<0.001	<0.001	<0.001	<0.001			
2/14/2018	<0.001	<0.001	<0.001	<0.001	<0.001			
3/6/2018						<0.001	<0.001	
3/15/2018								<0.001
5/1/2018						<0.001	<0.001 (D)	<0.001
6/26/2018	<0.001							
6/27/2018		<0.001	<0.001		<0.001		<0.001	
6/28/2018				<0.001		<0.001		<0.001
7/31/2018						<0.001		
8/1/2018							<0.001	<0.001
8/23/2018						<0.001	<0.001	
9/19/2018						<0.001	<0.001	
10/29/2018						<0.001	<0.001	<0.001
11/28/2018						<0.001	<0.001	<0.001
12/18/2018	<0.001		<0.001	<0.001				
12/19/2018					<0.001		<0.001	<0.001
12/20/2018		<0.001				0.0024 (J)		
1/16/2019								<0.001
8/27/2019	<0.001			<0.001	<0.001			
8/28/2019		<0.001	<0.001			0.00046 (J)	<0.001	
8/29/2019								0.00052 (J)
10/15/2019	<0.001							
10/16/2019			<0.001				<0.001	<0.001
12/3/2019						0.00088 (J)		
12/4/2019		<0.001		<0.001	<0.001			
3/4/2020	<0.001	<0.001	<0.001				<0.001	<0.001
3/5/2020				<0.001	0.0014 (J)	0.0016 (J)		
8/19/2020	<0.001	<0.001	<0.001	<0.001	<0.001			
8/20/2020						0.0031	<0.001	<0.001
9/15/2020	<0.001		<0.001					
9/16/2020		<0.001		<0.001	<0.001	0.0012 (J)	0.00035 (J)	
9/17/2020								0.00041 (J)
3/2/2021	<0.001					0.0014 (J)	<0.001	
3/3/2021		<0.001	<0.001	<0.001				
3/4/2021					<0.001			0.00092 (J)
9/23/2021						<0.001	<0.001	
9/27/2021								<0.001
9/28/2021	<0.001	<0.001	<0.001	<0.001	<0.001			
2/2/2022	<0.001			0.0013 (J)	<0.001	<0.001	<0.001	
2/3/2022			<0.001					<0.001
2/4/2022		<0.001						
8/23/2022	<0.001						<0.001	
8/24/2022			<0.001	<0.001				<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/5/2024 1:39 PM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
8/25/2022		<0.001			<0.001	<0.001		
1/24/2023					<0.001			
1/25/2023		<0.001				<0.001		<0.001
1/26/2023	<0.001		<0.001	<0.001			<0.001	
8/31/2023				<0.001	<0.001			
9/6/2023	<0.001	<0.001	<0.001			<0.001	<0.001	
9/8/2023								<0.001
2/10/2024				<0.001	<0.001		<0.001	
2/13/2024	<0.001	<0.001	<0.001					
2/14/2024						<0.001		<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/5/2024 1:39 PM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-52I	PZ-44	PZ-50D	PZ-51D	PZ-51I	PZ-58I	PZ-60I	PZ-61I
3/6/2018		<0.001						
5/1/2018		<0.001						
8/10/2018	<0.001							
8/23/2018	0.00085 (J)							
9/19/2018	<0.001							
10/29/2018	<0.001							
11/28/2018	<0.001							
12/20/2018	<0.001							
1/17/2019	<0.001							
1/19/2019					<0.001			
2/13/2019	<0.001							
8/29/2019	<0.001							
10/16/2019	<0.001							
10/18/2019					<0.001			
3/4/2020	0.00043 (J)							
8/20/2020	<0.001				0.0017 (J)			
9/17/2020	<0.001				<0.001			
3/3/2021				0.0013 (J)				
3/4/2021	0.00091 (J)				0.00079 (J)			
3/5/2021			0.00056 (J)					
9/27/2021					0.0012 (J)			<0.001
9/28/2021	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	
2/2/2022	<0.001	<0.001			<0.001			<0.001
2/3/2022			<0.001	<0.001		<0.001	<0.001	
8/24/2022				<0.001	<0.001	<0.001	<0.001	<0.001
8/25/2022	<0.001	<0.001	<0.001					
1/25/2023	<0.001	<0.001						
1/26/2023				<0.001	<0.001	<0.001	<0.001	<0.001
1/27/2023			<0.001					
8/31/2023								<0.001
9/6/2023	<0.001			<0.001				
9/8/2023		<0.001	<0.001		<0.001	<0.001	<0.001	
2/10/2024		<0.001						
2/14/2024	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/5/2024 1:39 PM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	PZ-63I	PZ-64I	PZ-68D	PZ-74I	PZ-75I
2/4/2022	<0.001				
8/25/2022	<0.001				
10/12/2022		<0.001			
1/30/2023	<0.001	<0.001			
2/1/2023			0.00176 (J)		
9/6/2023				<0.001	<0.001
9/8/2023	<0.001	<0.001	<0.001		
2/14/2024	<0.001	<0.001	<0.001	<0.001	<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/5/2024 1:39 PM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-12I (bg)	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)
8/31/2016				<0.002	<0.002	<0.002	<0.002	
9/1/2016	<0.005	<0.005						<0.002
9/6/2016			<0.002					
11/15/2016							<0.002	<0.002
11/16/2016	<0.005	<0.005		<0.002	<0.002	<0.002		
11/17/2016			<0.002					
2/20/2017						<0.002	<0.002	<0.002
2/21/2017	<0.005	<0.005	<0.002	<0.002	<0.002			
6/12/2017				0.0007 (J)		0.0007 (J)	0.0006 (J)	<0.002
6/13/2017		<0.005	0.0008 (J)		<0.002			
6/14/2017	0.0009 (J)							
9/26/2017	0.0012 (J)	0.0006 (J)	0.0012 (J)	0.001 (J)	<0.002	0.0009 (J)	0.0007 (J)	0.0007 (J)
2/13/2018				<0.002	<0.002	<0.002	<0.002	<0.002
2/14/2018	<0.005	<0.005	0.0007 (J)					
6/26/2018	<0.005	<0.005	0.00062 (J)	0.00062 (J)	<0.002	<0.002	<0.002	<0.002
12/18/2018	<0.005	<0.005	<0.002	<0.002	<0.002 (X)	<0.002 (X)	<0.002 (X)	<0.002 (X)
8/27/2019	<0.005	<0.005		<0.002	<0.002	<0.002	<0.002	<0.002
8/29/2019			<0.002					
10/15/2019	0.00088 (J)	0.00046 (J)	0.00075 (J)	0.0008 (J)	0.00063 (J)	0.00058 (J)	0.00039 (J)	<0.002
3/3/2020	0.0023 (J)	0.0015 (J)		0.0027 (J)	0.00098 (J)	0.0024 (J)	0.0027 (J)	0.0018 (J)
3/4/2020			<0.002					
8/18/2020	<0.005	<0.005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
9/15/2020	<0.005	<0.005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
3/1/2021				<0.002				<0.002
3/2/2021	<0.005	<0.005	<0.002		<0.002	<0.002	<0.002	
9/21/2021	<0.005	<0.005				<0.002	<0.002	
9/22/2021			<0.002	<0.002	<0.002			<0.002
2/1/2022	0.0017 (J)	<0.005	0.0018 (J)	0.0012 (J)	<0.002	0.0013 (J)	0.0012 (J)	<0.002
8/23/2022	<0.005	<0.005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
1/24/2023	<0.005	<0.005	<0.002	<0.002	<0.002	<0.002	<0.002	0.0021 (J)
8/31/2023			<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
2/10/2024			<0.002	<0.002	<0.002	<0.002	<0.002	<0.002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/5/2024 1:39 PM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
9/6/2016				<0.005				
9/8/2016	<0.002	<0.002	<0.002		<0.002			
11/17/2016	<0.002							
11/18/2016		<0.002						
11/21/2016			0.0019 (J)	<0.005	<0.002			
2/21/2017	<0.002	<0.002						
2/22/2017			<0.002	<0.005	<0.002			
6/13/2017	0.0006 (J)	0.0009 (J)						
6/14/2017			0.002 (J)	<0.005	<0.002			
9/27/2017	<0.002	0.0007 (J)	0.0016 (J)	<0.005	<0.002			
2/14/2018	<0.002	<0.002	<0.002	<0.005	<0.002			
3/6/2018						<0.002 (X)	<0.002 (X)	
3/15/2018								0.0014 (J)
5/1/2018						0.0021 (J)	0.0018 (JD)	<0.002
6/26/2018	0.00072 (J)							
6/27/2018		<0.002	<0.002		<0.002		0.0016 (J)	
6/28/2018				<0.005 (X)		<0.002 (X)		<0.002
7/31/2018						<0.002		
8/1/2018							0.0028 (J)	0.00074 (J)
8/23/2018						0.00075 (J)	<0.002	
9/19/2018						<0.002	<0.002	
10/29/2018						<0.002	0.0012 (J)	<0.002
11/28/2018						0.00096 (J)	0.0019 (J)	<0.002
12/18/2018	0.00091 (J)		<0.002	<0.005				
12/19/2018					<0.002		0.00075 (J)	<0.002
12/20/2018		<0.002				<0.002		
1/16/2019								<0.002
8/27/2019	<0.002			<0.005	<0.002			
8/28/2019		0.0014 (J)	0.00051 (J)			0.00058 (J)	0.0018 (J)	
8/29/2019								<0.002
10/15/2019	0.00052 (J)							
10/16/2019			0.00065 (J)				<0.002	<0.002
12/3/2019						0.0007 (J)		
12/4/2019		0.0011 (J)		0.00056 (J)	0.00053 (J)			
3/4/2020	<0.002	<0.002	0.00044 (J)				0.00049 (J)	0.00046 (J)
3/5/2020				<0.005	<0.002	<0.002		
8/19/2020	<0.002	<0.002	<0.002	<0.005	<0.002			
8/20/2020						<0.002	0.00089 (J)	<0.002
9/15/2020	<0.002		<0.002					
9/16/2020		<0.002		<0.005	<0.002	<0.002	<0.002	
9/17/2020								<0.002
3/2/2021	<0.002					<0.002	<0.002	
3/3/2021		<0.002	0.0015 (J)	<0.005				
3/4/2021					<0.002			<0.002
9/23/2021						<0.002	0.002 (J)	
9/27/2021								<0.002
9/28/2021	<0.002	<0.002	<0.002	<0.005	<0.002			
2/2/2022	<0.002			<0.005	<0.002	<0.002	0.0056	
2/3/2022			<0.002					<0.002
2/4/2022		<0.002						
8/23/2022	<0.002						0.00228 (J)	
8/24/2022			<0.002	0.00283 (J)				0.0025 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/5/2024 1:39 PM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
8/25/2022		<0.002			<0.002	<0.002		
1/24/2023					<0.002			
1/25/2023		<0.002				0.00225 (J)		0.00236 (J)
1/26/2023	<0.002		<0.002	0.00208 (J)			0.0024 (J)	
8/31/2023				<0.005	<0.002			
9/6/2023	<0.002	<0.002	<0.002			<0.002	0.0038 (J)	
9/8/2023								<0.002
2/10/2024				0.002 (J)	<0.002		<0.002	
2/13/2024	<0.002	<0.002	<0.002					
2/14/2024						<0.002		<0.002

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/5/2024 1:39 PM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-52I	PZ-44	PZ-50D	PZ-51D	PZ-51I	PZ-58I	PZ-60I	PZ-61I
3/6/2018		<0.002 (X)						
5/1/2018		<0.002						
8/10/2018	<0.002							
8/23/2018	<0.002							
9/19/2018	0.0013 (J)							
10/29/2018	0.0038 (J)							
11/28/2018	0.0016 (J)							
12/20/2018	0.0032 (J)							
1/17/2019	0.0032 (J)							
1/19/2019					<0.002			
2/13/2019	<0.002							
8/29/2019	0.00067 (J)							
10/16/2019	0.0026 (J)							
10/18/2019					<0.002			
3/4/2020	0.0047 (J)							
8/20/2020	0.0031 (J)				<0.002			
9/17/2020	<0.002				<0.002			
3/3/2021				0.0014 (J)				
3/4/2021	0.003 (J)				<0.002			
3/5/2021			0.00087 (J)					
9/27/2021					<0.002			0.0023 (J)
9/28/2021	<0.002	<0.002	<0.005	<0.005		<0.002	<0.005	
2/2/2022	<0.002	0.004 (J)			<0.002			<0.002
2/3/2022			0.0012 (J)	0.0015 (J)		<0.002	<0.005	
8/24/2022				0.00308 (J)	0.00222 (J)	0.00245 (J)	0.00358 (J)	0.00295 (J)
8/25/2022	<0.002	<0.002	0.00235 (J)					
1/25/2023	<0.002	0.00221 (J)						
1/26/2023				0.00275 (J)	<0.002	<0.002	0.00204 (J)	0.00225 (J)
1/27/2023			0.00215 (J)					
8/31/2023								<0.002
9/6/2023	<0.002			0.00408 (J)				
9/8/2023		<0.002	0.003 (J)		<0.002	<0.002	<0.005	
2/10/2024		<0.002						
2/14/2024	<0.002		0.00242 (J)	0.00234 (J)	<0.002	<0.002	0.00248 (J)	<0.002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/5/2024 1:39 PM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	PZ-63I	PZ-64I	PZ-68D	PZ-74I	PZ-75I
2/4/2022	<0.002				
8/25/2022	<0.002				
10/12/2022		0.00896			
1/30/2023	<0.002	0.0103			
2/1/2023			0.0058		
9/6/2023				<0.002	<0.002
9/8/2023	<0.002	0.00459 (J)	0.00342 (J)		
2/14/2024	<0.002	0.00438 (J)	<0.002	<0.002	<0.002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Barium (mg/L) Analysis Run 4/5/2024 1:39 PM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-12I (bg)	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)
8/31/2016				0.0239	0.0099 (J)	0.0273	0.0495	
9/1/2016	0.0454	0.0528						0.0142
9/6/2016			0.0624					
11/15/2016							0.0512	0.0126
11/16/2016	0.0623	0.0509		0.0147	0.0102	0.0365		
11/17/2016			0.109					
2/20/2017						0.0336	0.0586	0.0142
2/21/2017	0.0644	0.0531	0.095	0.0109	0.0094 (J)			
6/12/2017				0.0094 (J)		0.0322	0.0567	0.0134
6/13/2017		0.0543	0.0861		0.0094 (J)			
6/14/2017	0.0726							
9/26/2017	0.0765	0.0547	0.104	0.0156	0.0096 (J)	0.0364	0.0586	0.0133
2/13/2018				0.0134	0.0102	0.054	0.054	0.0145
2/14/2018	0.0786	0.0603	0.129					
6/26/2018	0.063	0.059	0.13	0.014	0.0093 (J)	0.032	0.063	0.014
12/18/2018	0.067	0.056	0.13	0.0076 (J)	0.01	0.038	0.045	0.013
8/27/2019	0.058	0.057		0.012	0.0095 (J)	0.028	0.056	0.013
8/29/2019			0.076					
10/15/2019	0.06	0.053	0.069	0.013	0.0091 (J)	0.032	0.049	0.013
3/3/2020	0.076	0.06		0.017	0.011	0.028	0.051	0.019
3/4/2020			0.087					
8/18/2020	0.053	0.058	0.067	0.01 (J)	0.01	0.022	0.04	0.014
9/15/2020	0.059	0.058	0.086	0.0083 (J)	0.0094 (J)	0.022	0.038	0.013
3/1/2021				0.0074				0.016
3/2/2021	0.053	0.063	0.097		0.0094	0.023	0.037	
9/21/2021	0.074	0.06				0.025	0.038	
9/22/2021			0.07	0.0075	0.0097			0.014
2/1/2022	0.057	0.064	0.08	0.0066	0.01	0.028	0.04	0.014
8/23/2022	0.0602	0.0607	0.0573	0.00954	0.012	0.0241	0.0379	0.014
1/24/2023	0.0512	0.0576	0.0468	0.00453	0.0118	0.0303	0.0394	0.0132
8/31/2023			0.0434	0.0068	0.0135	0.0245	0.0352	0.0143
2/10/2024			0.0431	0.0124	0.0137	0.0296	0.0396	0.0151

Time Series

Constituent: Barium (mg/L) Analysis Run 4/5/2024 1:39 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
9/6/2016				0.0206				
9/8/2016	0.0378	0.0184	0.0199		0.0593			
11/17/2016	0.0448							
11/18/2016		0.0173						
11/21/2016			0.0221 (J)	0.0237 (J)	0.0532 (BR)			
2/21/2017	0.0447	0.015						
2/22/2017			0.0179	0.0219	0.0498			
6/13/2017	0.0351	0.0143						
6/14/2017			0.0157	0.0197	0.0421			
9/27/2017	0.0383	0.017	0.0165	0.0213	0.0411			
2/14/2018	0.0327	0.0166	0.0163	0.0236	0.0417			
3/6/2018						0.1	0.0519	
3/15/2018								0.021
5/1/2018						0.084	0.057 (D)	0.024
6/26/2018	0.031							
6/27/2018		0.015	0.017		0.038		0.046	
6/28/2018				0.023		0.067		0.021
7/31/2018						0.087 (J+X)		
8/1/2018							0.043 (J+X)	0.02 (J+X)
8/23/2018						0.084	0.038	
9/19/2018						0.086	0.036	
10/29/2018						0.098 (J+X)	0.041 (J+X)	0.019 (J+X)
11/28/2018						0.11	0.039	0.02
12/18/2018	0.03		0.017	0.029				
12/19/2018					0.036		0.04	0.02
12/20/2018		0.015				0.093		
1/16/2019								0.02
8/27/2019	0.027			0.027	0.032			
8/28/2019		0.019	0.02			0.11	0.035	
8/29/2019								0.018
10/15/2019	0.027							
10/16/2019			0.019				0.032	0.017
12/3/2019						0.099		
12/4/2019		0.016		0.021	0.028			
3/4/2020	0.026	0.015	0.018				0.038	0.019
3/5/2020				0.025	0.026	0.078		
8/19/2020	0.027	0.016	0.019	0.026	0.025			
8/20/2020						0.083	0.035	0.019
9/15/2020	0.024		0.017					
9/16/2020		0.016		0.022	0.024	0.085	0.028	
9/17/2020								0.02
3/2/2021	0.026					0.061	0.036	
3/3/2021		0.016	0.021	0.028				
3/4/2021					0.024			0.025
9/23/2021						0.064	0.031	
9/27/2021								0.017
9/28/2021	0.023	0.013	0.017	0.035	0.02			
2/2/2022	0.023			0.031	0.023	0.063	0.028	
2/3/2022			0.016					0.016
2/4/2022		0.015						
8/23/2022	0.0259						0.0285	
8/24/2022			0.0175	0.0389				0.0166

Time Series

Constituent: Barium (mg/L) Analysis Run 4/5/2024 1:39 PM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
8/25/2022		0.0161			0.0231	0.0574		
1/24/2023					0.0182			
1/25/2023		0.0166				0.0695		0.0165
1/26/2023	0.0293		0.018	0.0397			0.0311	
8/31/2023				0.04	0.0243			
9/6/2023	0.0271	0.0151	0.0174			0.0524	0.028	
9/8/2023								0.0166
2/10/2024				0.0349	0.0192		0.0278	
2/13/2024	0.0276	0.0155	0.0179					
2/14/2024						0.0497		0.015

Time Series

Constituent: Barium (mg/L) Analysis Run 4/5/2024 1:39 PM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-52I	PZ-44	PZ-50D	PZ-51D	PZ-51I	PZ-58I	PZ-60I	PZ-61I
3/6/2018		0.0461						
5/1/2018		0.052						
8/10/2018	0.038							
8/23/2018	0.03 (JX)							
9/19/2018	0.03							
10/29/2018	0.025 (J+X)							
11/28/2018	0.017							
12/20/2018	0.013							
1/17/2019	0.017							
1/19/2019					0.017			
2/13/2019	0.025							
8/29/2019	0.017							
10/16/2019	0.015							
10/18/2019					0.014			
3/4/2020	0.022							
8/20/2020	0.017				0.013			
9/17/2020	0.02				0.015			
3/3/2021				0.08				
3/4/2021	0.019				0.016			
3/5/2021			0.043					
9/27/2021					0.014			0.029
9/28/2021	0.013	0.049	0.034	0.057		0.017	0.022	
2/2/2022	0.013	0.052			0.015			0.015
2/3/2022			0.033	0.057		0.016	0.021	
8/24/2022				0.0584	0.0154	0.0181	0.0226	0.0133
8/25/2022	0.0179	0.056	0.0257					
1/25/2023	0.0249	0.0498						
1/26/2023				0.0481	0.0152	0.0167	0.0218	0.0125
1/27/2023			0.0315					
8/31/2023								0.0127
9/6/2023	0.0415			0.0448				
9/8/2023		0.0555	0.0312		0.0149	0.0173	0.0232	
2/10/2024		0.052						
2/14/2024	0.0414		0.0259	0.0461	0.0133	0.0162	0.0205	0.0102

Time Series

Constituent: Barium (mg/L) Analysis Run 4/5/2024 1:39 PM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	PZ-63I	PZ-64I	PZ-68D	PZ-74I	PZ-75I
2/4/2022	0.037				
8/25/2022	0.023				
10/12/2022		0.0543			
1/30/2023	0.022	0.0254			
2/1/2023			0.145		
9/6/2023				0.0346	0.0513
9/8/2023	0.0221	0.0177	0.107		
2/14/2024	0.0202	0.0133	0.0853	0.0245	0.0421

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/5/2024 1:39 PM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-12I (bg)	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)
8/31/2016				<0.0002	<0.0002	<0.0002	<0.0002	
9/1/2016	<0.0005	<0.0005						<0.0002
9/6/2016			<0.0002					
11/15/2016							<0.0002	<0.0002
11/16/2016	<0.0005	<0.0005		<0.0002	<0.0002	<0.0002		
11/17/2016			<0.0002					
2/20/2017						<0.0002	<0.0002	<0.0002
2/21/2017	<0.0005	<0.0005	<0.0002	<0.0002	<0.0002			
6/12/2017				<0.0002		<0.0002	<0.0002	<0.0002
6/13/2017		<0.0005	<0.0002		<0.0002			
6/14/2017	<0.0005							
9/26/2017	<0.0005	<0.0005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
2/13/2018				<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
2/14/2018	<0.0005	<0.0005	<0.0002					
6/26/2018	<0.0005	<0.0005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
12/18/2018	<0.0005	<0.0005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
8/27/2019	<0.0005	<0.0005		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
8/29/2019			<0.0002					
10/15/2019	<0.0005	<0.0005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
3/3/2020	<0.0005	<0.0005		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
3/4/2020			<0.0002					
8/18/2020	<0.0005	<0.0005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
9/15/2020	<0.0005	<0.0005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
3/1/2021				<0.0002				<0.0002
3/2/2021	<0.0005	<0.0005	<0.0002		<0.0002	<0.0002	<0.0002	
9/21/2021	<0.0005	<0.0005				<0.0002	<0.0002	
9/22/2021			<0.0002	<0.0002	<0.0002			<0.0002
2/1/2022	<0.0005	<0.0005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
8/23/2022	<0.0005	<0.0005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
1/24/2023	<0.0005	<0.0005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
8/31/2023			<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
2/10/2024			<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/5/2024 1:39 PM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
9/6/2016				<0.0002				
9/8/2016	<0.0002	0.0002 (J)	0.0011 (J)		<0.0002			
11/17/2016	<0.0002							
11/18/2016		0.0002 (J)						
11/21/2016			0.0012 (J)	<0.0002	<0.0002			
2/21/2017	<0.0002	0.0002 (J)						
2/22/2017			0.0014 (J)	<0.0002	<0.0002			
6/13/2017	<0.0002	0.0002 (J)						
6/14/2017			0.0012 (J)	<0.0002	<0.0002			
9/27/2017	<0.0002	0.0001 (J)	0.001 (J)	<0.0002	<0.0002			
2/14/2018	<0.0002	<0.0002	<0.003	<0.0002	<0.0002			
3/6/2018						<0.0002	<0.0002	
3/15/2018								<0.003
5/1/2018						<0.0002	<0.0002 (D)	<0.003
6/26/2018	<0.0002							
6/27/2018		0.00014 (J)	0.0008 (J)		<0.0002		<0.0002	
6/28/2018				<0.0002		<0.0002		0.003 (J)
7/31/2018						<0.0002		
8/1/2018							<0.0002	0.0025 (J)
8/23/2018						7.9E-05 (J)	5.5E-05 (J)	
9/19/2018						<0.0002	<0.0002	
10/29/2018						<0.0002	<0.0002	0.0042
11/28/2018						<0.0002	5.6E-05 (J)	0.0029 (J)
12/18/2018	<0.0002		0.00071 (J)	<0.0002				
12/19/2018					<0.0002		<0.0002 (X)	0.0043
12/20/2018		<0.0002 (X)				<0.0002		
1/16/2019								0.0038
8/27/2019	<0.0002			<0.0002	<0.0002			
8/28/2019		0.00012 (J)	0.0008 (J)			<0.0002	<0.0002	
8/29/2019								0.0029 (J)
10/15/2019	<0.0002							
10/16/2019			0.00072 (J)				<0.0002	0.0027 (J)
10/17/2019		<0.0002		<0.0002	<0.0002	<0.0002		
12/3/2019						<0.0002		
12/4/2019		0.00012 (J)		<0.0002	<0.0002			
3/4/2020	<0.0002	0.00012 (J)	0.00073 (J)				<0.0002	0.0052
3/5/2020				<0.0002	<0.0002	<0.0002		
8/19/2020	<0.0002	9.9E-05 (J)	0.00074 (J)	<0.0002	<0.0002			
8/20/2020						4.6E-05 (J)	4.7E-05 (J)	0.0044
9/15/2020	<0.0002		0.00071 (J)					
9/16/2020		0.00011 (J)		<0.0002	<0.0002	<0.0002	<0.0002	
9/17/2020								0.0065
3/2/2021	<0.0002					<0.0002	<0.0002	
3/3/2021		7.1E-05 (J)	0.00094	<0.0002				
3/4/2021					<0.0002			0.0059
9/23/2021						<0.0002	<0.0002	
9/27/2021								0.006
9/28/2021	<0.0002	<0.0002	0.00079	<0.0002	<0.0002			
2/2/2022	<0.0002			<0.0002	<0.0002	<0.0002	<0.0002	
2/3/2022			0.00083					0.0071
2/4/2022		5.4E-05 (J)						
8/23/2022	<0.0002						<0.0002	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/5/2024 1:39 PM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
8/24/2022			0.000845	<0.0002				0.00831
8/25/2022		<0.0002			<0.0002	<0.0002		
1/24/2023					<0.0002			
1/25/2023		<0.0002				<0.0002		0.00962
1/26/2023	<0.0002		0.00109	<0.0002			<0.0002	
8/31/2023				<0.0002	<0.0002			
9/6/2023	<0.0002	<0.0002	0.00113			<0.0002	<0.0002	
9/8/2023								0.00867
2/10/2024				<0.0002	<0.0002		<0.0002	
2/13/2024	<0.0002	<0.0002	0.00114					
2/14/2024						<0.0002		0.00734

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/5/2024 1:39 PM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-52I	PZ-44	PZ-50D	PZ-51D	PZ-51I	PZ-58I	PZ-60I	PZ-61I
3/6/2018		<0.0002						
5/1/2018		<0.0002						
8/10/2018	<0.0002							
8/23/2018	<0.0002							
9/19/2018	<0.0002							
10/29/2018	<0.0002							
11/28/2018	<0.0002							
12/20/2018	<0.0002							
1/17/2019	<0.0002							
1/19/2019					6.4E-05 (J)			
2/13/2019	<0.0002							
8/29/2019	<0.0002							
10/16/2019	<0.0002							
10/18/2019					<0.0005			
3/4/2020	<0.0002							
8/20/2020	<0.0002				7.7E-05 (J)			
9/17/2020	<0.0002				9.6E-05 (J)			
3/3/2021				<0.0002				
3/4/2021	<0.0002				9.7E-05 (J)			
3/5/2021			<0.0002					
9/27/2021					7.1E-05 (J)			0.0017
9/28/2021	<0.0002	<0.0002	5.9E-05 (J)	<0.0002		0.025	0.065	
2/2/2022	<0.0002	<0.0002			7.1E-05 (J)			0.0015
2/3/2022			<0.0002	<0.0002		0.027	0.072	
8/24/2022				<0.0002	<0.0005	0.0335	0.0703	0.00198
8/25/2022	<0.0002	<0.0002	0.000269 (J)					
1/25/2023	<0.0002	<0.0002						
1/26/2023				<0.0002	<0.0005	0.0377	0.0782	0.00164
1/27/2023			<0.0002					
8/31/2023								0.00145
9/6/2023	<0.0002			<0.0002				
9/8/2023		<0.0002	<0.0002		<0.0005	0.0328	0.067	
2/10/2024		<0.0002						
2/14/2024	<0.0002		<0.0002	<0.0002	0.000202 (J)	0.0351	0.0619	0.00157

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/5/2024 1:39 PM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	PZ-63I	PZ-64I	PZ-68D	PZ-74I	PZ-75I
2/4/2022	<0.005				
8/25/2022	<0.005				
10/12/2022		0.0006			
1/30/2023	<0.005	0.00116			
2/1/2023			<0.0002		
9/6/2023				<0.0002	<0.0002
9/8/2023	<0.005	0.00248	<0.0002		
2/14/2024	0.000286 (J)	0.00268	<0.0002	<0.0002	<0.0002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 4/5/2024 1:39 PM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-12I (bg)	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)
8/31/2016				0.0072 (J)	<0.0052	<0.0052	<0.0052	
9/1/2016	0.0093 (J)	<0.015						<0.0052
9/6/2016			0.0362 (J)					
11/15/2016							0.0085 (J)	0.0123 (J)
11/16/2016	0.0127 (J)	0.0081 (J)		0.0117 (J)	0.0109 (J)	0.0187 (J)		
11/17/2016			0.0617					
2/20/2017						0.0066 (J)	0.0093 (J)	0.0157 (J)
2/21/2017	0.0071 (J)	<0.015	0.0245 (J)	0.0088 (J)	<0.0052			
6/12/2017				0.0133 (J)		<0.0052	<0.0052	<0.0052
6/13/2017		<0.015	<0.04		<0.0052			
6/14/2017	0.0078 (J)							
9/26/2017	<0.04	<0.015	<0.04	0.0093 (J)	<0.0052	<0.0052	<0.0052	<0.0052
2/13/2018				0.0141 (J)	<0.0052	<0.0052	<0.0052	<0.0052
2/14/2018	0.0068 (J)	<0.015	0.0314 (J)					
6/26/2018	0.008 (J)	<0.015	0.062	0.012 (J)	<0.0052	0.0042 (J)	0.0056 (J)	0.0041 (J)
12/18/2018	0.0083 (J)	0.0053 (J)	0.055	0.0086 (J)	<0.0052	<0.0052	0.0062 (J)	<0.0052
3/19/2019	0.008 (J)	<0.015	0.068	0.00565 (JD)	<0.0052	<0.0052	<0.0052	<0.0052
10/15/2019	0.006 (J)	<0.015	0.022 (J)	0.0067 (J)	<0.0052	<0.0052	0.006 (J)	0.01 (J)
3/3/2020	0.01 (J)	0.0065 (J)		0.0082 (J)	<0.0052	<0.0052	<0.0052	<0.0052
3/4/2020			0.044 (J)					
9/15/2020	0.0071 (J)	<0.015	0.033 (J)	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052
3/1/2021				<0.0052				<0.0052
3/2/2021	0.0057 (J)	<0.015	0.042		<0.0052	0.0053 (J)	0.0071 (J)	
9/21/2021	<0.04	<0.015				<0.0052	<0.0052	
9/22/2021			0.047	<0.0052	<0.0052			<0.0052
2/1/2022	<0.04	<0.015	0.046	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052
8/23/2022	0.00653 (J)	<0.015	0.0498	0.00592 (J)	0.00532 (J)	<0.0052	0.00538 (J)	<0.0052
1/24/2023	0.00884 (J)	0.0053 (J)	0.0437	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052
8/31/2023			0.039	0.00649 (J)	0.00738 (J)	0.0073 (J)	0.00764 (J)	0.00611 (J)
2/12/2024			0.0389	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 4/5/2024 1:39 PM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
9/6/2016				1.96				
9/8/2016	1.03	1.63	1.35		1.28			
11/17/2016	1.7							
11/18/2016		1.91						
11/21/2016			1.74	1.68	1.19			
2/21/2017	1.55	1.39						
2/22/2017			1.5	1.48	1.43			
6/13/2017	1.77	1.62						
6/14/2017			1.6	1.71	1.57			
9/27/2017	1.75	1.16	1.83	1.61	1.51			
2/14/2018	1.47	1.17	1.8	1.47	1.6			
3/6/2018						0.0198 (J)	0.428	
3/15/2018								0.32
5/1/2018						0.015 (J)	0.435 (D)	0.32
6/26/2018	1.8							
6/27/2018		1.4 (J+X)	1.8 (J+X)		1.5 (J+X)		0.49 (J+X)	
6/28/2018				1.4		<0.04 (X)		0.34
7/31/2018						0.035 (J)		
8/1/2018							0.39	0.28
8/23/2018						0.022 (J)	0.39	
9/19/2018						0.021 (J)	0.43	
10/29/2018						0.021 (J)	0.4	0.3
11/28/2018						<0.04 (X)	0.51	0.35
12/18/2018	1.5		1.5	1.6				
12/19/2018					1.6		0.41	0.35
12/20/2018		1.4				0.028 (J)		
1/16/2019								0.37
3/19/2019		1.1					0.41	
3/20/2019	1.5 (D)		1.5	1.7	1.4	0.043		0.34
10/15/2019	1.2							
10/16/2019			1.2				0.36	0.31
10/17/2019		0.97		1.7	1.5	0.064		
12/3/2019						0.027 (J)		
12/4/2019		0.89		1.6	1.6			
3/4/2020	1.2	0.81	1.1				0.49	0.32
3/5/2020				1.5	1.5	0.044 (J)		
9/15/2020	1.2		1.1					
9/16/2020		1.2		1.7	1.4	0.028 (J)	0.47	
9/17/2020								0.36
3/2/2021	1.1					0.044	0.58	
3/3/2021		0.91	1	1.4				
3/4/2021					1.1			0.31
9/23/2021						0.029 (J)	0.47	
9/27/2021								0.32
9/28/2021	1.1	0.95	0.9	1.7	0.91			
2/2/2022	1.1			1.9	1	0.034 (J)	0.48	
2/3/2022			0.93					0.31
2/4/2022		1						
8/23/2022	1.38						0.547	
8/24/2022			1.13	2.15				0.406
8/25/2022		1.03			1.07	0.0458		
1/24/2023					1.11			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 4/5/2024 1:39 PM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
1/25/2023		1.14				0.0355		0.383
1/26/2023	1.45		1.07	2.17			0.661	
9/1/2023				2.05	1.13			
9/6/2023	1.95	1.25	1.34			0.0444	0.689	
9/8/2023								0.372
2/12/2024				2.36	1.23		0.618	
2/14/2024	1.61	1.17	1.11			0.0355		
2/16/2024								0.389

Time Series

Constituent: Boron (mg/L) Analysis Run 4/5/2024 1:39 PM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-52I	PZ-44	PZ-50D	PZ-51D	PZ-51I	PZ-58I	PZ-60I	PZ-61I
3/6/2018		2.12						
5/1/2018		1.5						
8/3/2018					0.3			
8/10/2018	1.3							
8/23/2018	1.4							
9/19/2018	1.7							
10/29/2018	1.3							
11/28/2018	1.5							
12/20/2018	1.6							
1/17/2019	1.5							
1/19/2019					0.39			
2/13/2019	1.7							
3/20/2019	1.6 (D)							
10/16/2019	1.3							
10/18/2019					0.38			
3/4/2020	1.4							
9/17/2020	1.9				0.43			
10/27/2020			0.15	0.029 (J)	0.37			
3/3/2021				0.028 (J)				
3/4/2021	1.4				0.36			
3/5/2021			0.2					
9/27/2021					0.39			0.26
9/28/2021	1.4	1.3	0.24	0.023 (J)		0.36	0.23	
2/2/2022	1.5	1.6			0.42			0.32
2/3/2022			0.22	0.034 (J)		0.38	0.25	
8/24/2022				0.036	0.459	0.464	0.293	0.277
8/25/2022	1.56	1.59	0.278					
1/25/2023	1.79	1.47						
1/26/2023				0.0397	0.445	0.44	0.288	0.353
1/27/2023			0.277					
9/1/2023								0.331
9/6/2023	1.87			0.0387				
9/8/2023		1.35	0.285		0.43	0.429	0.3	
2/12/2024		1.27						
2/14/2024				0.0326				
2/16/2024	1.61		0.269		0.409	0.416	0.301	0.332

Time Series

Constituent: Boron (mg/L) Analysis Run 4/5/2024 1:39 PM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	PZ-63I	PZ-64I	PZ-68D	PZ-74I	PZ-75I
2/4/2022	0.67				
8/25/2022	0.672				
10/12/2022		0.0152			
1/30/2023	0.82	0.015			
2/1/2023			0.255		
9/6/2023				1.47	1.51
9/8/2023	0.706	0.00834 (J)	0.318		
2/16/2024	0.714	0.016	0.384	1.32	1.36

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/5/2024 1:39 PM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-12I (bg)	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)
8/31/2016				<0.0003	<0.0003	<0.0003	<0.0003	
9/1/2016	<0.001	<0.001						<0.0003
9/6/2016			<0.0003					
11/15/2016							<0.0003	<0.0003
11/16/2016	<0.001	<0.001		<0.0003	<0.0003	<0.0003		
11/17/2016			<0.0003					
2/20/2017						<0.0003	<0.0003	<0.0003
2/21/2017	<0.001	<0.001	<0.0003	<0.0003	<0.0003			
6/12/2017				<0.0003		<0.0003	<0.0003	<0.0003
6/13/2017		<0.001	<0.0003		<0.0003			
6/14/2017	<0.001							
9/26/2017	<0.001	<0.001	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
2/13/2018				<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
2/14/2018	<0.001	<0.001	<0.0003					
6/26/2018	<0.001	<0.001	0.00015 (J)	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
7/31/2018	<0.001	<0.001						
12/18/2018	<0.001	<0.001	0.0001 (J)	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
8/27/2019	<0.001	<0.001		<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
8/29/2019			<0.0003					
10/15/2019	<0.001	<0.001	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
3/3/2020	<0.001	<0.001		<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
3/4/2020			<0.0003					
8/18/2020	<0.001	<0.001	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
9/15/2020	<0.001	<0.001	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
3/1/2021				<0.0003				<0.0003
3/2/2021	<0.001	<0.001	<0.0003		<0.0003	<0.0003	<0.0003	
9/21/2021	<0.001	<0.001				<0.0003	<0.0003	
9/22/2021			<0.0003	<0.0003	<0.0003			<0.0003
2/1/2022	<0.001	<0.001	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
8/23/2022	<0.001	<0.001	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
1/24/2023	<0.001	<0.001	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
8/31/2023			<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
2/10/2024			<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/5/2024 1:39 PM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
9/6/2016				<0.0003				
9/8/2016	<0.0003	7E-05 (J)	<0.0003		<0.0003			
11/17/2016	<0.0003							
11/18/2016		9E-05 (J)						
11/21/2016			<0.0003	8E-05 (J)	8E-05 (J)			
2/21/2017	<0.0003	<0.0003						
2/22/2017			<0.0003	<0.0003	0.0001 (J)			
6/13/2017	<0.0003	<0.0003						
6/14/2017			<0.0003	<0.0003	<0.0003			
9/27/2017	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003			
2/14/2018	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003			
3/6/2018						<0.0003	<0.0003	
3/15/2018								0.038
5/1/2018						<0.0003	<0.0003 (D)	0.011
6/26/2018	<0.0003							
6/27/2018		<0.0003	<0.0003		0.00011 (J)		0.00014 (J)	
6/28/2018				<0.0003		<0.0003		0.087
7/31/2018						<0.0003		
8/1/2018							0.00011 (J)	0.042
8/23/2018						<0.0003	0.00018 (J)	
9/19/2018						<0.0003	0.00015 (J)	
10/29/2018						9.8E-05 (J)	0.00019 (J)	0.083
11/28/2018						<0.0003	0.00022 (J)	0.031
12/18/2018	<0.0003		<0.0003	<0.0003				
12/19/2018					<0.0003 (X)		<0.0003	0.042
12/20/2018		<0.0003				<0.0003 (X)		
1/16/2019								0.028
8/27/2019	<0.0003			<0.0003	<0.0003			
8/28/2019		<0.0003	<0.0003			<0.0003	0.00017 (J)	
8/29/2019								0.0071
10/15/2019	<0.0003							
10/16/2019			<0.0003				0.00018 (J)	0.014
10/17/2019		<0.0003		<0.0003	<0.0003	<0.0003		
12/3/2019						0.00011 (J)		
12/4/2019		<0.0003		<0.0003	<0.0003			
3/4/2020	<0.0003	<0.0003	<0.0003				0.00024 (J)	0.013
3/5/2020				<0.0003	<0.0003	<0.0003		
8/19/2020	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003			
8/20/2020						0.00014 (J)	<0.0003	0.0079
9/15/2020	<0.0003		<0.0003					
9/16/2020		<0.0003		<0.0003	<0.0003	<0.0003	<0.0003	
9/17/2020								0.021
3/2/2021	<0.0003					0.0002 (J)	<0.0003	
3/3/2021		<0.0003	<0.0003	<0.0003				
3/4/2021					<0.0003			0.019
9/23/2021						<0.0003	<0.0003	
9/27/2021								0.0095
9/28/2021	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003			
2/2/2022	<0.0003			0.00014 (J)	<0.0003	<0.0003	0.00015 (J)	
2/3/2022			<0.0003					0.0085
2/4/2022		<0.0003						
8/23/2022	<0.0003						<0.0003	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/5/2024 1:39 PM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
8/24/2022			<0.0003	<0.0003				0.00818
8/25/2022		<0.0003			<0.0003	<0.0003		
1/24/2023					<0.0003			
1/25/2023		<0.0003				<0.0003		0.00726
1/26/2023	<0.0003		<0.0003	<0.0003			<0.0003	
8/31/2023				<0.0003	<0.0003			
9/6/2023	<0.0003	<0.0003	<0.0003			<0.0003	<0.0003	
9/8/2023								0.00744
2/10/2024				<0.0003	<0.0003		<0.0003	
2/13/2024	<0.0003	<0.0003	<0.0003					
2/14/2024						<0.0003		0.00688

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/5/2024 1:39 PM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-52I	PZ-44	PZ-50D	PZ-51D	PZ-51I	PZ-58I	PZ-60I	PZ-61I
3/6/2018		<0.0003						
5/1/2018		<0.0003						
8/3/2018					0.0015			
8/10/2018	<0.0003							
8/23/2018	<0.0003							
9/19/2018	<0.0003							
10/29/2018	<0.0003							
11/28/2018	<0.0003							
12/20/2018	<0.0003							
1/17/2019	<0.0003							
1/19/2019					0.0016			
2/13/2019	<0.0003							
8/29/2019	<0.0003							
10/16/2019	<0.0003							
10/18/2019					0.00083 (J)			
3/4/2020	<0.0003							
8/20/2020	<0.0003				0.0019 (J)			
9/17/2020	<0.0003				0.033			
10/27/2020			<0.0003	<0.0003	0.0051			
3/3/2021				<0.0003				
3/4/2021	<0.0003				0.017			
3/5/2021			<0.0003					
9/27/2021					0.0031			0.00081
9/28/2021	<0.0003	<0.0003	<0.0003	<0.0003		0.0042	0.016	
2/2/2022	<0.0003	<0.0003			0.0043			0.00014 (J)
2/3/2022			<0.0003	<0.0003		0.0038	0.016	
8/24/2022				<0.0003	0.00478	0.0046	0.017	0.000859 (J)
8/25/2022	<0.0003	<0.0003	<0.0003					
1/25/2023	<0.0003	<0.0003						
1/26/2023				<0.0003	0.00101	0.00435	0.0152	0.000517 (J)
1/27/2023			<0.0003					
8/31/2023								0.000496 (J)
9/6/2023	<0.0003			<0.0003				
9/8/2023		<0.0003	<0.0003		0.000679 (J)	0.00453	0.0149	
2/10/2024		<0.0003						
2/14/2024	<0.0003		<0.0003	<0.0003	0.00133	0.00468	0.014	0.00037 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/5/2024 1:39 PM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	PZ-63I	PZ-64I	PZ-68D	PZ-74I	PZ-75I
2/4/2022	<0.0003				
8/25/2022	<0.0003				
10/12/2022		<0.001			
1/30/2023	<0.0003	0.00126			
2/1/2023			<0.0003		
9/6/2023				<0.0003	<0.0003
9/8/2023	<0.0003	<0.001	<0.0003		
2/14/2024	<0.0003	0.0011	<0.0003	<0.0003	<0.0003

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/5/2024 1:39 PM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-12I (bg)	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)
8/31/2016				12.6	4.09	13.5	19.6	
9/1/2016	8.98	4.61						3.3
9/6/2016			12.8					
11/15/2016							21.7	3.44
11/16/2016	15.4	4.17		12.1	4.25	14.9		
11/17/2016			19.2					
2/20/2017						13.9	21.1	3.52
2/21/2017	17.4	5	15.1	11.4	4.02			
6/12/2017				9.34		13.7	21.5	3.11
6/13/2017		4.98	10.2		3.84			
6/14/2017	18.1							
9/26/2017	19.3	4.49	15	14.3	3.31	14.4	24	3.15
2/13/2018				<25	3.94	<25	<25	3.65
2/14/2018	<25	<25	<25					
6/26/2018	15.5 (J)	6.4	18.5 (J)	16 (J)	3.6	13.5 (J)	23.5 (J)	3.3
7/31/2018	18.2 (J)	6.1						
12/18/2018	18.7 (J)	5.5	16.8 (J)	14.5 (J)	3.8	16.4 (J)	19.8 (J)	3.5
3/19/2019	15.9 (J)	5.9	13.5 (J)	14.3 (JD)	3.9	12.3 (J)	21.4 (J)	3.6
10/15/2019	15.9	6.2	8.6	15.1	3.7	14.4	20	3.5
3/3/2020	19.4	6.8		20	4	14.9	23.2	5
3/4/2020			11.5					
9/15/2020	14.5	5.7	10.7	14.1	3.9	12.7	16.8	3.7
3/1/2021				15.4				4.2
3/2/2021	11.7	5.4	11.6		4	13.2	16.8	
9/21/2021	16.4	5.4				14.1	19.1	
9/22/2021			9.2	15.9	4.3			4.1
2/1/2022	14.2	5.3	10.7	14.4	4.4	14.5	19.1	4.2
8/23/2022	15.8	6.09	8.09	13.9	4.65	14.3	18.2	3.97
1/24/2023	13.7	5.62	6.97	14.2	4.86	15.8	19.4	3.9
8/31/2023			5.95	12.6	5.02	14.3	14.9	3.79
2/12/2024			6.19	14.1	5.25	16	18.2	4.27

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/5/2024 1:39 PM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
9/6/2016				63.3				
9/8/2016	59.4	87.2	93.9		60.5			
11/17/2016	78.4							
11/18/2016		82.4						
11/21/2016			99.1	60.7	31.1			
2/21/2017	80.9	75.1						
2/22/2017			105	62.1	67.3			
6/13/2017	62	61						
6/14/2017			91.3	63.5	60.2			
9/27/2017	65.8	72.6	84	63.5	68.4			
2/14/2018	58.8	74.1	72.1	62.8	70.2			
3/6/2018						39.5	326	
3/15/2018								233
5/1/2018						45.5	302 (D)	225
6/26/2018	55.5							
6/27/2018		68.2	61.1		67.1		340	
6/28/2018				73.3		41.9		242
7/31/2018						41.5		
8/1/2018							358	246
8/23/2018						42.3	323	
9/19/2018						41.9	321	
10/29/2018						40.8	326	236
11/28/2018						45.1	354	254
12/18/2018	54.7		52.9	102				
12/19/2018					61.2		330	252
12/20/2018		63.9				39		
1/16/2019								248
3/19/2019		60.2					335	
3/20/2019	53.95 (D)		55.4	141	52.8	31.2		222
10/15/2019	48.3							
10/16/2019			54				338	241
12/3/2019						43.7		
12/4/2019		76.8		92.6	52.7			
3/4/2020	52	72.3	59.3				353	245
3/5/2020				119	52.1	37.9		
9/15/2020	40.1		55.1					
9/16/2020		62.5		106	43.1	39.7	309	
9/17/2020								206
3/2/2021	44.1					33.9	353	
3/3/2021		58.2	73.3	122				
3/4/2021					35.7			214
9/23/2021						32	336	
9/27/2021								196
9/28/2021	38.4	50.4	59.5	212	33.9			
2/2/2022	44.3			232	44.2	33.8	320	
2/3/2022			58.7					220
2/4/2022		61.7						
8/23/2022	51.5						323	
8/24/2022			61	316				215
8/25/2022		64			48.5	33.5		
1/24/2023					46.6			
1/25/2023		55.7				34.3		216

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/5/2024 1:39 PM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
1/26/2023	57.6		68	361			331	
8/31/2023					45.1			
9/1/2023				414				
9/6/2023	69.6	74.4	71.4			34	347	
9/8/2023								214
2/12/2024				441	47.4		340	
2/14/2024	67.4	60	89.3			32.8		
2/16/2024								224

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/5/2024 1:39 PM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-52I	PZ-44	PZ-50D	PZ-51D	PZ-51I	PZ-58I	PZ-60I	PZ-61I
3/6/2018		<25						
5/1/2018		<25						
8/10/2018	410 (O)							
8/23/2018	33.9							
9/19/2018	42.3							
10/29/2018	39.8							
11/28/2018	38.2							
12/20/2018	43.2							
1/17/2019	39.4							
1/19/2019					196			
2/13/2019	36.9							
3/20/2019	40.85 (D)							
10/16/2019	48.4							
10/18/2019					177			
3/4/2020	49.5							
9/17/2020	35.4				168			
10/27/2020			159	132	183			
3/3/2021				119				
3/4/2021	47.5				182			
3/5/2021			207					
9/27/2021					187			230
9/28/2021	39.5	24.2	225	113		108	274	
2/2/2022	40.1	25.1			187			215
2/3/2022			222	122		120	279	
8/24/2022				118	197	146	281	214
8/25/2022	38.3	27.2	210					
1/25/2023	36.3	25.1						
1/26/2023				119	198	151	284	214
1/27/2023			214					
9/1/2023								209
9/6/2023	37.4			120				
9/8/2023		26.5	211		217	162	294	
2/12/2024		26						
2/14/2024	36.4							
2/16/2024			195	122	208	184	296	218

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/5/2024 1:39 PM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	PZ-63I	PZ-64I	PZ-68D	PZ-74I	PZ-75I
2/4/2022	42.2				
8/25/2022	45.1				
10/12/2022		320			
1/30/2023	49.8	372			
2/1/2023			86.1		
9/6/2023				69.2	47
9/8/2023	56.8	363	86.4		
2/16/2024	57.3	333	94.3	62.5	50.8

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/5/2024 1:39 PM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-12I (bg)	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)
8/31/2016				2.3	2	4.4	3.6	
9/1/2016	3.3	3.5						2.5
9/6/2016			5.8					
11/15/2016							4	2.3
11/16/2016	3.6	3.6		2	1.8	4.4		
11/17/2016			4.3					
2/20/2017						4.8	3.9	2.4
2/21/2017	3.2	3.2	3.5	2	1.8			
6/12/2017				2.1		4.2	3.8	2.2
6/13/2017		3.3	3.2		1.7			
6/14/2017	3.1							
9/26/2017	3.3	3.3	3.5	2	1.8	4.4	4.1	2.3
2/13/2018				2.1	1.7	4.7	4.1	2.3
2/14/2018	3.1	3.5	3.8					
6/26/2018	3.4	3.4	3.8	2.4	2.2	4.5	4.1	2.6
7/31/2018	2.6	2.9						
12/18/2018	2.8	2.9	3.9	1.8	1.9	4.5	3.8	2.3
3/19/2019	3.2	3.5	3.8	2.45 (D)	2	4.5	4.2	2.6
10/15/2019	3.1	3.4	3.5	2.2	1.9	4.2	3.7	2.4
3/3/2020	2.6	3.2		1.9	1.9	3.9	3.6	2.9
3/4/2020			3.3					
9/15/2020	2.4	3.5	3.1	1.9	1.7	3.7	3.7	2.3
3/1/2021				1.8				2.1
3/2/2021	2.6	3.7	3.5		1.7	3.8	3.7	
9/21/2021	2.1	3.5				3.2	3.2	
9/22/2021			2.8	1.7	1.5			2.1
2/1/2022	2.2	3.6	3.2	1.8	1.6	3.5	3.4	2.1
8/23/2022	2.5	5.46	3.16	2.02	2.18	3.64	3.59	2.39
1/24/2023	2.49	3.79	2.88	2.09	2.16	3.93	3.56	2.3
8/23/2023			2.41	1.9	2.14	3.53	3.37	2.34
1/31/2024				2.35	2.14	3.98	3.52	3.23
2/1/2024			2.4					

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/5/2024 1:39 PM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
9/6/2016				6.7				
9/8/2016	5.5	6	6.4		6.8			
11/17/2016	7.7							
11/18/2016		6.3						
11/21/2016			6.9	6.5	7.8			
2/21/2017	7.3	5.1						
2/22/2017			6.2	5.6	7			
6/13/2017	7.5	4.7						
6/14/2017			7.2	5.7	7.1			
9/27/2017	7.9	4.9	8.7	6	7.2			
2/14/2018	6.7	5.6	7.2	5.9	7.4			
3/6/2018						56.6	8.4	
3/15/2018								23.3
5/1/2018						58.5	5.7 (JXD)	23.4
6/26/2018	6.7							
6/27/2018		5.9	6.3		7.1		4.4	
6/28/2018				7 (J-X)		50.2 (J-X)		24 (J-X)
7/31/2018						59		
8/1/2018							5.2	25.7
8/23/2018						54	3.6	
9/19/2018						58.4	4.1	
10/29/2018						62.6	4.3	24.9
11/28/2018						58.1	5.1	24
12/18/2018	6.2		5.4	5.8				
12/19/2018					7 (J-X)		4.5 (J-X)	23.3 (J-X)
12/20/2018		5.6 (J-X)				47.2 (J-X)		
1/16/2019								24.1
3/19/2019		5.8					4.7	
3/20/2019	6.3 (D)		5.6	5.8	7.3	27.7		23.5
10/15/2019	5							
10/16/2019			6.9				4.6	21.9
12/3/2019						52.8		
12/4/2019		5.6		5	6.6			
3/4/2020	5	5.1	5.8				4.2	21.6
3/5/2020				4.3	6	37.1		
9/15/2020	4.9		5.5					
9/16/2020		5.4		4.4	5.6	54.9	4.1	
9/17/2020								20.1
3/2/2021	4.5					25.8	4.8	
3/3/2021		4.5	5.6	4				
3/4/2021					4.6			18.9
9/23/2021						29.3	4.3	
9/27/2021								16.2
9/28/2021	4.2	3.7	5.4	3.4	3.6			
2/2/2022	4.2			4	3.8	23.4	4.2	
2/3/2022			6.1					17.4
2/4/2022		4.6						
8/23/2022	5.38						4.49	
8/24/2022			5.84	4.91				15.8
8/25/2022		4.65			3.96	14.9		
1/24/2023					4.49			
1/25/2023		3.81				27.4		14.7

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/5/2024 1:39 PM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
1/26/2023	6.96		5.59	3.82			4.96	
8/23/2023				3.35	4.3			
8/25/2023	8.47	4.81	6.08				4.67	14.8
8/26/2023						16.5		
1/31/2024					4.1			
2/1/2024	8.73	4.05	7.94	3.52			4.74	
2/9/2024						17.2		15.4

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/5/2024 1:39 PM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-52I	PZ-44	PZ-50D	PZ-51D	PZ-51I	PZ-58I	PZ-60I	PZ-61I
3/6/2018		6						
5/1/2018		6						
8/10/2018	6.9							
8/23/2018	7.5							
9/19/2018	6.6							
10/29/2018	7.8							
11/28/2018	7.2							
12/20/2018	6.6 (J-X)							
1/17/2019	6.4							
1/19/2019					11.6			
2/13/2019	6.5							
3/20/2019	6.7 (D)							
10/16/2019	7							
10/18/2019					10.9			
3/4/2020	6.1							
9/17/2020	6.3				10.5			
10/27/2020			5.6	6.3	11			
3/3/2021				18.9				
3/4/2021	5.6				12.2			
3/5/2021			8					
9/27/2021					9.4			20
9/28/2021	5.5	5	13	12.8		9.6	27.2	
2/2/2022	6.1	5.5			9.7			19.2
2/3/2022			12.5	15.2		11.9	30.7	
8/24/2022				17.5	9.64	10.7	26.7	19.2
8/25/2022	6.27	6.28	26.2					
1/25/2023	6.35	5.84						
1/26/2023				21.8	9.5	12.1	28.3	17
1/27/2023			11.5					
8/24/2023		6.83			9.43			
8/25/2023	6.28		10.1	22.2		11	25	15.7
2/1/2024		6.36						
2/2/2024	6.3							
2/9/2024			10.6	19.2	9.59	13.1	26.9	
2/12/2024								15.8

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/5/2024 1:39 PM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	PZ-63I	PZ-64I	PZ-68D	PZ-74I	PZ-75I
2/4/2022	6.2				
8/25/2022	6.15				
10/12/2022		55.3			
1/30/2023	7.18	40.7			
2/1/2023			12.7		
8/24/2023	6.81				
8/25/2023		36.5	23		6.84
8/26/2023				14.8	
2/2/2024	7.16				7.21
2/3/2024		36.9	19.9	18.1	

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/5/2024 1:39 PM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-12I (bg)	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)
8/31/2016				0.001 (J)	0.0034 (J)	0.0058 (J)	0.0028 (J)	
9/1/2016	0.0009 (J)	0.0013 (J)						0.0147
9/6/2016			<0.003					
11/15/2016							0.003 (J)	0.0154 (B)
11/16/2016	0.0015 (J)	0.0012 (J)		<0.01	0.0029 (J)	0.0051 (J)		
11/17/2016			<0.003					
2/20/2017						0.0049 (J)	0.0047 (J)	0.014
2/21/2017	0.001 (J)	0.0017 (J)	<0.003	<0.01	0.0036 (J)			
6/12/2017				0.0005 (J)		0.0052 (J)	0.0041 (J)	0.016
6/13/2017		0.0019 (J)	<0.003		0.0038 (J)			
6/14/2017	0.0012 (J)							
9/26/2017	0.0014 (J)	0.0018 (J)	<0.003	0.0005 (J)	0.0045 (J)	0.0039 (J)	0.0037 (J)	0.0144
2/13/2018				<0.01	<0.01	<0.01	<0.01	0.0144
2/14/2018	<0.01	<0.01	<0.003					
6/26/2018	<0.01	0.0022 (J)	<0.003	<0.01	0.008 (J)	0.0053 (J)	0.0043 (J)	0.015
12/18/2018	0.0016 (J)	0.0022 (J)	<0.003	<0.01	0.012	0.0032 (J)	0.0054 (J)	0.015
8/27/2019	0.0023 (J)	0.0024 (J)		0.0004 (J)	0.0083 (J)	0.0055 (J)	0.0043 (J)	0.015
8/29/2019			0.0016 (J)					
10/15/2019	0.0021 (J)	0.0023 (J)	0.0017 (J)	<0.01	0.0083 (J)	0.0047 (J)	0.0055 (J)	0.014
3/3/2020	0.0026 (J)	0.0028 (J)		0.00047 (J)	0.0098 (J)	0.0069 (J)	0.0057 (J)	0.011
3/4/2020			0.0019 (J)					
8/18/2020	0.0023 (J)	0.0029 (J)	0.0017 (J)	0.00096 (J)	0.0085 (J)	0.0069 (J)	0.005 (J)	0.015
9/15/2020	0.00096 (J)	0.0025 (J)	0.0019 (J)	<0.01	0.0082 (J)	0.0069 (J)	0.0048 (J)	0.014
3/1/2021				<0.01				0.011
3/2/2021	0.002 (J)	0.0021 (J)	0.002 (J)		0.0074	0.0064	0.0044 (J)	
9/21/2021	0.0023 (J)	0.0024 (J)				0.0064	0.0044 (J)	
9/22/2021			0.0026 (J)	<0.01	0.0091			0.014
2/1/2022	0.0027 (J)	0.0029 (J)	0.0028 (J)	0.0013 (J)	0.0092	0.0066	0.0052	0.015
8/23/2022	<0.01	<0.01	<0.003	<0.01	0.00908 (J)	0.00647 (J)	0.00435 (J)	0.0143
1/24/2023	<0.01	<0.01	<0.003	<0.01	0.0095 (J)	0.00513 (J)	0.00572 (J)	0.0139
8/31/2023			<0.003	<0.01	0.00921 (J)	0.00701 (J)	0.00472 (J)	0.0132
2/10/2024			<0.003	0.00458 (J)	0.00854 (J)	0.00551 (J)	0.00582 (J)	0.0139

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/5/2024 1:39 PM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
9/6/2016				<0.003				
9/8/2016	<0.003	0.001 (J)	<0.003		<0.003			
11/17/2016	<0.003							
11/18/2016		<0.003						
11/21/2016			<0.003	<0.003	<0.003			
2/21/2017	<0.003	<0.003						
2/22/2017			<0.003	<0.003	0.0012 (J)			
6/13/2017	<0.003	<0.003						
6/14/2017			<0.003	<0.003	0.0009 (J)			
9/27/2017	<0.003	<0.003	<0.003	<0.003	0.0011 (J)			
2/14/2018	<0.003	<0.003	<0.003	<0.003	<0.003			
3/6/2018						<0.003	<0.003	
3/15/2018								<0.003
5/1/2018						<0.003	<0.003 (D)	<0.003
6/26/2018	<0.003							
6/27/2018		<0.003	<0.003		<0.003		<0.003	
6/28/2018				<0.003		<0.003		0.0023 (J)
7/31/2018						<0.003		
8/1/2018							<0.003	0.0046 (J)
8/23/2018						<0.003	<0.003	
9/19/2018						<0.003	<0.003	
10/29/2018						<0.003	<0.003	<0.003
11/28/2018						<0.003	<0.003	<0.003
12/18/2018	<0.003		<0.003	<0.003				
12/19/2018					<0.003		0.0018 (J)	<0.003
12/20/2018		0.003 (J)				<0.003		
1/16/2019								<0.003
8/27/2019	0.0016 (J)			0.0051 (J)	0.0019 (J)			
8/28/2019		<0.003	<0.003			<0.003	0.00092 (J)	
8/29/2019								<0.003
10/15/2019	0.00098 (J)							
10/16/2019			<0.003				<0.003	0.0005 (J)
12/3/2019						<0.003		
12/4/2019		<0.003		<0.003	0.0014 (J)			
3/4/2020	<0.003	<0.003	0.02				0.00078 (J)	0.00071 (J)
3/5/2020				<0.003	0.0014 (J)	0.00053 (J)		
8/19/2020	<0.003	<0.003	<0.003	<0.003	0.0021 (J)			
8/20/2020						0.001 (J)	0.00064 (J)	0.00065 (J)
9/15/2020	<0.003		<0.003					
9/16/2020		<0.003		0.014	0.0025 (J)	0.0014 (J)	<0.003	
9/17/2020								0.00098 (J)
3/2/2021	<0.003					<0.003	<0.003	
3/3/2021		<0.003	<0.003	<0.003				
3/4/2021					0.002 (J)			0.001 (J)
9/23/2021						<0.003	<0.003	
9/27/2021								<0.003
9/28/2021	<0.003	<0.003	<0.003	<0.003	0.0021 (J)			
2/2/2022	<0.003			<0.003	0.0021 (J)	<0.003	<0.003	
2/3/2022			<0.003					<0.003
2/4/2022		<0.003						
8/23/2022	<0.003						<0.003	
8/24/2022			<0.003	<0.003				<0.003

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/5/2024 1:39 PM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
8/25/2022		<0.003			<0.003	<0.003		
1/24/2023					<0.003			
1/25/2023		<0.003				<0.003		<0.003
1/26/2023	<0.003		<0.003	<0.003			<0.003	
8/31/2023				<0.003	<0.003			
9/6/2023	<0.003	<0.003	<0.003			<0.003	<0.003	
9/8/2023								<0.003
2/10/2024				<0.003	<0.003		<0.003	
2/13/2024	<0.003	<0.003	<0.003					
2/14/2024						<0.003		<0.003

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/5/2024 1:39 PM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-52I	PZ-44	PZ-50D	PZ-51D	PZ-51I	PZ-58I	PZ-60I	PZ-61I
3/6/2018		<0.003						
5/1/2018		<0.003						
8/10/2018	0.0017 (J)							
8/23/2018	<0.003							
9/19/2018	<0.003							
10/29/2018	<0.003							
11/28/2018	<0.003							
12/20/2018	<0.003							
1/17/2019	<0.003							
1/19/2019					<0.003			
2/13/2019	<0.003							
8/29/2019	<0.003							
10/16/2019	<0.003							
10/18/2019					<0.003			
3/4/2020	<0.003							
8/20/2020	<0.003				<0.003			
9/17/2020	<0.003				0.00098 (J)			
3/3/2021				<0.003				
3/4/2021	<0.003				0.0008 (J)			
3/5/2021			<0.003					
9/27/2021					<0.003			0.0077
9/28/2021	<0.003	<0.003	<0.003	<0.003		<0.003	<0.003	
2/2/2022	<0.003	<0.003			<0.003			<0.003
2/3/2022			<0.003	<0.003		<0.003	<0.003	
8/24/2022				<0.003	<0.003	<0.003	<0.003	<0.003
8/25/2022	<0.003	<0.003	<0.003					
1/25/2023	<0.003	<0.003						
1/26/2023				<0.003	<0.003	<0.003	<0.003	<0.003
1/27/2023			<0.003					
8/31/2023								<0.003
9/6/2023	<0.003			<0.003				
9/8/2023		<0.003	<0.003		<0.003	<0.003	<0.003	
2/10/2024		<0.003						
2/14/2024	<0.003		<0.003	<0.003	<0.003	<0.003	<0.003	<0.003

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/5/2024 1:39 PM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	PZ-63I	PZ-64I	PZ-68D	PZ-74I	PZ-75I
2/4/2022	<0.003				
8/25/2022	<0.003				
10/12/2022		<0.003			
1/30/2023	<0.003	<0.003			
2/1/2023			<0.003		
9/6/2023				<0.003	<0.003
9/8/2023	<0.003	<0.003	<0.003		
2/14/2024	<0.003	<0.003	<0.003	<0.003	<0.003

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/5/2024 1:39 PM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-12I (bg)	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)
8/31/2016				0.0016 (J)	0.0034 (J)	0.0013 (J)	<0.0003	
9/1/2016	<0.001	<0.001						<0.0003
9/6/2016			0.0028 (J)					
11/15/2016							<0.0003	<0.0003
11/16/2016	<0.001	<0.001		0.0006 (J)	0.003 (J)	<0.01 (o)		
11/17/2016			0.0072 (J)					
2/20/2017						0.0012 (J)	0.0009 (J)	<0.0003
2/21/2017	<0.001	<0.001	0.0045 (J)	<0.005	0.0028 (J)			
6/12/2017				<0.005		0.0011 (J)	0.0006 (J)	0.0003 (J)
6/13/2017		<0.001	0.0036 (J)		0.0025 (J)			
6/14/2017	<0.001							
9/26/2017	<0.001	<0.001	0.0037 (J)	<0.005	0.002 (J)	0.0016 (J)	0.0005 (J)	0.0003 (J)
2/13/2018				<0.005	<0.005	<0.01 (o)	<0.0003	<0.0003
2/14/2018	<0.001	<0.001	0.0135					
6/26/2018	<0.001	<0.001	0.0098 (J)	<0.005	0.0019 (J)	0.0009 (J)	0.00052 (J)	<0.0003
7/31/2018	<0.001	<0.001						
12/18/2018	<0.001	<0.001	0.0057 (J)	<0.005	0.0032 (J)	0.00062 (J)	<0.0003	<0.0003
8/27/2019	<0.001	<0.001		<0.005	0.0012 (J)	0.00068 (J)	0.00042 (J)	<0.0003
8/29/2019			0.0015 (J)					
10/15/2019	<0.001	<0.001	0.0011 (J)	<0.005	0.00097 (J)	0.00083 (J)	<0.0003	<0.0003
3/3/2020	<0.001	<0.001		<0.005	0.0015 (J)	0.00043 (J)	<0.0003	0.0011 (J)
3/4/2020			0.0012 (J)					
8/18/2020	<0.001	<0.001	0.00067 (J)	<0.005	0.0014 (J)	0.00048 (J)	<0.0003	0.00061 (J)
9/15/2020	<0.001	<0.001	0.00076 (J)	<0.005	0.001 (J)	0.0005 (J)	<0.0003	<0.0003
3/1/2021				<0.005				<0.0003
3/2/2021	<0.001	<0.001	<0.0003		0.001 (J)	0.00053 (J)	<0.0003	
9/21/2021	<0.001	<0.001				0.00071 (J)	<0.0003	
9/22/2021			<0.0003	0.0015 (J)	<0.005			0.00078 (J)
2/1/2022	<0.001	<0.001	0.00052 (J)	0.00079 (J)	0.0011 (J)	0.0007 (J)	<0.0003	<0.0003
8/23/2022	<0.001	<0.001	0.000308 (J)	0.000767 (J)	0.000844 (J)	0.000553 (J)	<0.0003	<0.0003
1/24/2023	<0.001	<0.001	<0.0003	0.00154	0.000829 (J)	0.000677 (J)	<0.0003	<0.0003
8/31/2023			<0.0003	0.000707 (J)	0.000707 (J)	0.000474 (J)	0.000327 (J)	<0.0003
2/10/2024			<0.0003	0.0014	0.000962 (J)	0.000555 (J)	<0.0003	<0.0003

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/5/2024 1:39 PM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
9/6/2016				0.0006 (J)				
9/8/2016	0.0073 (J)	0.0149	0.0122		0.0025 (J)			
11/17/2016	0.0086 (J)							
11/18/2016		0.0131						
11/21/2016			0.0122	<0.04	0.001 (J)			
2/21/2017	0.0079 (J)	0.0099 (J)						
2/22/2017			0.0136	0.0016 (J)	<0.0003			
6/13/2017	0.0083 (J)	0.0094 (J)						
6/14/2017			0.0113	0.0015 (J)	<0.0003			
9/27/2017	0.0087 (J)	0.0095 (J)	0.0094 (J)	0.0007 (J)	<0.0003			
2/14/2018	<0.01	0.0112	<0.01	<0.04	<0.0003			
3/6/2018						0.0162	<0.0003	
3/15/2018								1.3
5/1/2018						0.015	0.0125 (D)	1.4
6/26/2018	0.006 (J)							
6/27/2018		0.0093 (J)	0.0069 (J)		<0.0003		0.0076 (J)	
6/28/2018				0.00078 (J)		0.01		1.3
7/31/2018						0.0098 (J)		
8/1/2018							0.004 (J)	1.4
8/23/2018						0.0093 (J)	0.0016 (J)	
9/19/2018						0.0084 (J)	0.0018 (J)	
10/29/2018						0.0064 (J)	0.0014 (J)	1.4
11/28/2018						0.0071 (J)	0.0016 (J)	1.4
12/18/2018	0.0055 (J)		0.0067 (J)	0.0011 (J)				
12/19/2018					<0.0003		0.0014 (J)	1.5
12/20/2018		0.0081 (J)				0.069		
1/16/2019								1.4
8/27/2019	0.0042 (J)			0.0014 (J)	<0.0003			
8/28/2019		0.01	0.0061			0.011	0.00037 (J)	
8/29/2019								1.3
10/15/2019	0.0043 (J)							
10/16/2019			0.0058				0.00032 (J)	1.4
10/17/2019		0.011 (J)		<0.04	<0.0003	0.0098 (J)		
12/3/2019						0.0076		
12/4/2019		0.0086		0.0012 (J)	<0.0003			
3/4/2020	0.0039 (J)	0.008	0.007				0.0011 (J)	1.5
3/5/2020				0.0011 (J)	<0.0003	0.0091		
8/19/2020	0.0039 (J)	0.0078	0.0065	0.0008 (J)	<0.0003			
8/20/2020						0.022	0.00043 (J)	1.4
9/15/2020	0.0035 (J)		0.0064					
9/16/2020		0.008		0.0008 (J)	<0.0003	0.0049 (J)	0.00053 (J)	
9/17/2020								1.4
3/2/2021	0.003 (J)					0.0057	0.0005 (J)	
3/3/2021		0.0062	0.0095	0.0015 (J)				
3/4/2021					<0.0003			1.4
9/23/2021						0.0049 (J)	<0.0003	
9/27/2021								1.3
9/28/2021	0.0029 (J)	0.0047 (J)	0.0069	0.001 (J)	<0.0003			
2/2/2022	0.0027 (J)			0.0012 (J)	<0.0003	0.0054	<0.0003	
2/3/2022			0.0077					1.5
2/4/2022		0.0076						
8/23/2022	0.00342						<0.0003	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/5/2024 1:39 PM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
8/24/2022			0.0066	0.00163				1.42
8/25/2022		0.0079			<0.0003	0.00357		
1/24/2023					<0.0003			
1/25/2023		0.00711				0.00258		1.35
1/26/2023	0.0032		0.00823	0.00158			0.000376 (J)	
8/31/2023				0.00183	<0.0003			
9/6/2023	0.00343	0.00601	0.00724			0.00221	<0.0003	
9/8/2023								1.38
2/10/2024				0.00179	<0.0003		<0.0003	
2/13/2024	0.00254	0.00392	0.00874					
2/14/2024						0.00181		
2/16/2024								1.39

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/5/2024 1:39 PM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-52I	PZ-44	PZ-50D	PZ-51D	PZ-51I	PZ-58I	PZ-60I	PZ-61I
3/6/2018		<0.001						
5/1/2018		<0.001						
8/3/2018					0.041			
8/10/2018	0.0043 (J)							
8/23/2018	0.0026 (J)							
9/19/2018	0.0028 (J)							
10/29/2018	0.0015 (J)							
11/28/2018	0.0012 (J)							
12/20/2018	<0.001							
1/17/2019	<0.001							
1/19/2019					0.018			
2/13/2019	<0.001							
8/29/2019	0.00063 (J)							
10/16/2019	<0.001							
10/18/2019					0.017			
3/4/2020	<0.001							
8/20/2020	<0.001				0.02			
9/17/2020	0.00046 (J)				0.022			
10/27/2020			0.0037 (J)	0.00041 (J)	0.02			
3/3/2021				0.0004 (J)				
3/4/2021	<0.001				0.019			
3/5/2021			0.0038 (J)					
9/27/2021					0.02			0.45
9/28/2021	<0.001	<0.001	0.2	<0.001		0.39	3.5	
2/2/2022	<0.001	<0.001			0.023			0.51
2/3/2022			0.1	<0.001		0.43	3.4	
8/24/2022				0.000306 (J)	0.0239	0.503	3.57	0.562
8/25/2022	<0.001	<0.001	0.506					
1/25/2023	<0.001	<0.001						
1/26/2023				<0.001	0.0231	0.518	3.64	0.604
1/27/2023			0.0728					
8/31/2023								0.757
9/6/2023	0.000317 (J)			0.000427 (J)				
9/8/2023		<0.001	0.00991		0.0259	0.556	3.79	
2/10/2024		0.000408 (J)						
2/14/2024	0.00042 (J)		0.131	0.00111	0.0221	0.57		0.694
2/16/2024							3.78	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/5/2024 1:39 PM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	PZ-63I	PZ-64I	PZ-68D	PZ-74I	PZ-75I
2/4/2022	0.019				
8/25/2022	0.0232				
10/12/2022		9.05			
1/30/2023	0.028	11			
2/1/2023			0.000825 (J)		
9/6/2023				0.00059 (J)	0.00105
9/8/2023	0.0309	10.6	0.00106		
2/14/2024	0.0299		0.000852 (J)	0.000829 (J)	0.000519 (J)
2/16/2024		9.86			

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/5/2024 1:39 PM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-12I (bg)	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)
8/31/2016				0.351 (U)	1 (U)	0.62 (U)	0.603 (U)	
9/1/2016	0.428 (U)	0.566 (U)						1.33
9/6/2016			0.585 (U)					
11/15/2016							0.645 (U)	0.412 (U)
11/16/2016	0.799 (U)	0.863 (U)		0.824 (U)	0.43 (U)	0.493 (U)		
11/17/2016			0.804 (U)					
2/20/2017						0.534 (U)	1.36	0.633 (U)
2/21/2017	1.75 (U)	0.318 (U)	0.595 (U)	1.01 (U)	0.96 (U)			
6/12/2017				0.532 (U)		0.254 (U)	0.566 (U)	0.112 (U)
6/13/2017		0.163 (U)	0.618 (U)		0.645 (U)			
6/14/2017	2.66							
9/26/2017	0.841 (U)	0.56 (U)	1.26 (U)	0.845 (U)	0.299 (U)	0.62 (U)	0.762 (U)	0.167 (U)
2/13/2018				0.176 (U)	1.01 (U)	0.0914 (U)	0.349 (U)	0.347 (U)
2/14/2018	1.13 (UX)	0.537 (U)	1.2 (U)					
6/26/2018	1.42 (J+X)	1.31 (UX)	1.34 (U)	1.02 (U)	1.26 (J+X)	1.11 (U)	0.614 (U)	0.903 (U)
12/18/2018	0.855 (U)	1.31 (J+X)	1.13 (U)	0.487 (U)	0.44 (U)	0.42 (U)	0.445 (U)	0.353 (U)
8/27/2019	1.31	1.32		1.11	1.47	1.19	1.44	0.65 (U)
8/29/2019			1.45 (U)					
10/15/2019	1.13 (U)	1.05 (U)	1.69	1.02 (U)	0.807 (U)	0.714 (U)	0.467 (U)	0.402 (U)
3/3/2020	1.29 (U)	1.68		1.18 (U)	0.818 (U)	0.996 (U)	1.5	0.397 (U)
3/4/2020			1.45					
8/18/2020	0.988 (U)	0.969 (U)	0.784 (U)	0.0861 (U)	1.22 (U)	0.53 (U)	0.581 (U)	0.453 (U)
9/15/2020	0.762 (U)	0.359 (U)	1.04 (U)	0.0583 (U)	0.579 (U)	0.215 (U)	0.55 (U)	0.474 (U)
3/1/2021				0.127 (U)				0.215 (U)
3/2/2021	0.901	0.925	1.12		0.342 (U)	0.409 (U)	0.362 (U)	
9/21/2021	1.33	0.468 (U)				0.182 (U)	0.86 (U)	
9/22/2021			1.4	0.349 (U)	1.33 (U)			0.943 (U)
2/1/2022	0.833 (U)	0.659 (U)	1.15	0.233 (U)	0.251 (U)	1.23	0.23 (U)	0.349 (U)
8/23/2022	0.558	1.69	1.59	1.7	0.531	2.3	0.735	0.203
1/24/2023	1.49 (U)	3.07	5.62	2.05 (U)	1.35 (U)	0.811 (U)	0.402 (U)	1.55 (U)
9/22/2023			2.16	0.857 (U)	0.592 (U)	1.36	1.31 (U)	1.89 (U)
2/27/2024			0.605 (U)	1.25	2.54	1.48 (U)	0 (U)	1.29

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/5/2024 1:39 PM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
9/6/2016				1.01 (U)				
9/8/2016	0.862 (U)	1.74	1.13		0.706 (U)			
11/17/2016	1.2 (U)							
11/18/2016		0.571 (U)						
11/21/2016			1.59	0.201 (U)	0.0569 (U)			
2/21/2017	1.31	1.28 (U)						
2/22/2017			1.64	0.57 (U)	1.07 (U)			
6/13/2017	0.738 (U)	0.521 (U)						
6/14/2017			1.32	0.726 (U)	0.459 (U)			
9/27/2017	0.583 (U)	0.595 (U)	1.7	0.884 (U)	0.807 (U)			
2/14/2018	1.41 (J+X)	1.18 (U)	1.89 (J+X)	1.14 (U)	1.67 (J+X)			
3/6/2018						1.25 (U)	1.75 (J+X)	
3/15/2018								1.31
5/1/2018						0.423 (U)	2.02 (J+XD)	1.69 (J+X)
6/26/2018	0.968 (U)							
6/27/2018		1.3 (U)	1.66 (J+X)		1.34 (UX)		0.878 (U)	
6/28/2018				1.4 (UX)		0.283 (U)		1.04 (U)
7/31/2018						0.243 (U)		
8/1/2018							0.638 (U)	1.67
8/23/2018						1.1 (U)	1.14 (U)	
9/19/2018						0.369 (U)	1.45 (UX)	
10/29/2018						0.401 (U)	1.09 (U)	0.992 (U)
11/28/2018						0.901 (U)	1.67 (UX)	1.76 (UX)
12/18/2018	1.13 (U)		0.759 (U)	0.661 (U)				
12/19/2018					1.21 (U)		1.3	2.15 (J+X)
12/20/2018		0.527 (U)				0.657 (U)		
1/16/2019								1.39
8/27/2019	0.91 (U)			1.35	0.86 (U)			
8/28/2019		0.643 (U)	1.76			0.528 (U)	0.804 (U)	
8/29/2019								1.33
10/15/2019	1.06 (U)							
10/16/2019			1.69 (U)				1.28 (U)	2.51
10/17/2019		1.07 (U)		1.25 (U)	1.2 (U)	0.977 (U)		
3/4/2020	1.34	1.18	1.23				0.862 (U)	1.73
3/5/2020				1.35	0.483 (U)	0.921 (U)		
8/19/2020	0.467 (U)	0.684 (U)	0.876 (U)	1 (U)	0.482 (U)			
8/20/2020						0.501 (U)	1.64	2.78
9/15/2020	0.205 (U)		1.23 (U)					
9/16/2020		0.175 (U)		0.43 (U)	0.195 (U)	0.254 (U)	0.51 (U)	
9/17/2020								0.717 (U)
3/2/2021	0.161 (U)					0.107 (U)	0.571 (U)	
3/3/2021		0.829 (U)	1.31 (U)	0.415 (U)				
3/4/2021					0.32 (U)			1.22
9/23/2021						0.619 (U)	0.527 (U)	
9/27/2021								2.07
9/28/2021	4.44	3.58	1.49	0.749 (U)	0.947 (U)			
2/2/2022	0.64 (U)			1.21 (U)	0.0265 (U)	0.219 (U)	0.145 (U)	
2/3/2022			0.798 (U)					1.15
2/4/2022		0.335 (U)						
8/23/2022	1.9						3.74	
8/24/2022			1.97	3.26				1.87
8/25/2022		1.79			1.32	1.65		

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/5/2024 1:39 PM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
1/24/2023					2.25			
1/25/2023		1.53 (U)				1.29 (U)		5.71
1/26/2023	3.24		2.27 (U)	2.73 (U)			3.28	
9/22/2023				2.71	2.33			1.55
9/26/2023	1.21 (U)	2.23	3.02			0.607 (U)	2.39	
2/27/2024				4.11	0.572 (U)		2.63	
2/28/2024	3.78	1.49 (U)	3.01					0.607 (U)
2/29/2024						1.22 (U)		

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/5/2024 1:39 PM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-52I	PZ-44	PZ-50D	PZ-51D	PZ-51I	PZ-58I	PZ-60I	PZ-61I
3/6/2018		0.577 (U)						
5/1/2018		0.27 (U)						
8/10/2018	1.91							
8/23/2018	1.86 (J+X)							
9/19/2018	1.64 (UX)							
10/29/2018	1.36 (U)							
11/28/2018	1.07 (U)							
12/20/2018	0.892 (U)							
1/17/2019	1.1 (U)							
1/19/2019					1.86			
2/13/2019	1.68							
8/29/2019	1.44							
10/16/2019	2.13							
10/18/2019					11.7 (U)			
3/4/2020	2.3							
8/20/2020	2.97				0.937 (U)			
9/17/2020	2.04				1.76			
3/3/2021				2.54				
3/4/2021	2.04				0.966 (U)			
3/5/2021			2.11					
9/27/2021					0.771 (U)			1.14 (U)
9/28/2021	3.28	0.526 (U)	1.05	1.89		1.66	2.79	
2/2/2022	2.33	0.244 (U)			0.992 (U)			1.16
2/3/2022			1	2.23		1.33	2.46	
8/24/2022				3.33	0.625	1.16	3.5	2.91
8/25/2022	4.97	1.6	2.26					
1/25/2023	7.94	2.49 (U)						
1/26/2023				3.7	1.53 (U)	4.03	5.31	3.2
1/27/2023			2.66 (U)					
9/22/2023		0.477 (U)	2.12		5.22	3.71	4.48	0.868 (U)
9/26/2023	6.36			1.27				
2/27/2024		2.87						
2/28/2024			3.93					
2/29/2024	4.51			5.03	2.24	0.162 (U)	4.39	2.25

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/5/2024 1:39 PM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	PZ-63I	PZ-64I	PZ-68D	PZ-74I	PZ-75I
2/4/2022	0.768				
8/25/2022	1.52				
10/12/2022		2.14			
1/30/2023	6.03	3.5			
2/1/2023			4.16		
9/22/2023	2.31	0.877 (U)	1.62		
9/26/2023				0.811 (U)	3.11
2/29/2024	1.52 (U)	1.05 (U)	2.16	0.912 (U)	2.19

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/5/2024 1:39 PM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-12I (bg)	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)
8/31/2016				0.11 (J)	0.05 (J)	0.07 (J)	0.19 (J)	
9/1/2016	0.2 (J)	0.05 (J)						0.06 (J)
9/6/2016			0.42					
11/15/2016							0.13 (J)	0.06 (J)
11/16/2016	0.14 (J)	0.03 (J)		0.08 (J)	0.07 (J)	0.07 (J)		
11/17/2016			0.15 (J)					
2/20/2017						0.06 (J)	0.08 (J)	0.04 (J)
2/21/2017	0.16 (J)	0.04 (J)	0.1 (J)	0.14 (J)	0.05 (J)			
6/12/2017				0.16 (J)		0.008 (J)	0.07 (J)	0.06 (J)
6/13/2017		0.008 (J)	0.07 (J)		0.04 (J)			
6/14/2017	0.09 (J)							
9/26/2017	0.1 (J)	<0.1	<0.1	0.14 (J)	<0.1	<0.1	0.04 (J)	<0.1
2/13/2018				<0.033	<0.1	<0.1	<0.1	<0.1
2/14/2018	<0.3	<0.1	<0.1					
6/26/2018	0.079 (J)	0.042 (J)	0.053 (J)	0.085 (J)	0.048 (J)	0.045 (J)	0.072 (J)	0.041 (J)
12/18/2018	<0.3	<0.1	<0.1	0.085 (J)	<0.1	<0.1	<0.1	<0.1
3/19/2019	<0.3	<0.1	<0.1	0.0655 (JD)	0.037 (J)	<0.1	0.06 (J)	0.03 (J)
8/27/2019	<0.3	<0.1		<0.033	<0.1	<0.1	<0.1	<0.1
8/29/2019			0.084 (J)					
10/15/2019	0.047 (J)	<0.1	<0.1	<0.033	<0.1	<0.1	0.045 (J)	<0.1
3/3/2020	0.056 (J)	<0.1		0.066 (J)	0.05 (J)	<0.1	0.057 (J)	0.09 (J)
3/4/2020			<0.1					
8/18/2020	0.052 (J)	<0.1	<0.1	<0.033	<0.1	<0.1	<0.1	<0.1
9/15/2020	0.062 (J)	<0.1	<0.1	<0.033	<0.1	<0.1	0.051 (J)	<0.1
3/1/2021				<0.033				<0.1
3/2/2021	0.061 (J)	<0.1	<0.1		<0.1	<0.1	<0.1	
9/21/2021	0.071 (J)	<0.1				<0.1	0.056 (J)	
9/22/2021			0.069 (J)	<0.033	<0.1			<0.1
2/1/2022	0.055 (J)	<0.1	<0.1	<0.033	<0.1	<0.1	<0.1	<0.1
8/23/2022	0.151	0.129	0.157	<0.033	<0.1	<0.1	<0.1	<0.1
1/24/2023	0.214	0.0926 (J)	0.231	<0.033	<0.1	0.149	0.158	0.12
8/23/2023			0.114	0.267	0.229	0.289	0.277	0.0787 (J)
1/31/2024				<0.033	0.184	0.232	0.233	0.0341 (J)
2/1/2024			0.275					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/5/2024 1:39 PM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
9/6/2016				0.43				
9/8/2016	0.14 (J)	0.31	0.2 (J)		0.15 (J)			
11/17/2016	0.27 (J)							
11/18/2016		0.19 (J)						
11/21/2016			0.37	0.24 (J)	0.04 (J)			
2/21/2017	0.6	0.35						
2/22/2017			0.37	0.2 (J)	0.08 (J)			
6/13/2017	0.19 (J)	0.19 (J)						
6/14/2017			0.38	0.15 (J)	0.09 (J)			
9/27/2017	0.5	0.4	0.4	0.41	<0.1			
2/14/2018	<0.3	<0.3	<0.3	<0.3	<0.1			
3/6/2018						0.94	1.1	
3/15/2018								0.84 (JX)
5/1/2018						<0.1	0.595 (D)	0.91
6/26/2018	0.15 (J)							
6/27/2018		0.26 (J)	0.085 (J)		<0.1		0.27 (J)	
6/28/2018				0.93 (J+X)		0.69 (J+X)		1.1 (J+X)
7/31/2018						<0.1		
8/1/2018							0.48	2
8/23/2018						<0.1	0.34	
9/19/2018						<0.1	0.23 (J)	
10/29/2018						<0.1	<0.1	0.24 (J)
11/28/2018						<0.1	0.063 (J)	0.41
12/18/2018	0.29 (J)		0.26 (J)	0.54				
12/19/2018					0.23 (J)		0.28 (J)	0.54
12/20/2018		0.26 (J)				0.12 (J)		
1/16/2019								1.1
3/19/2019		0.2 (J)					<0.1	
3/20/2019	0.17 (JD)		0.091 (J)	0.31	<0.1	0.066 (J)		0.21 (J)
8/27/2019	0.15 (J)			0.12 (J)	<0.1			
8/28/2019		0.074 (J)	0.055 (J)			<0.1	<0.1	
8/29/2019								0.41
10/15/2019	0.16 (J)							
10/16/2019			0.11 (J)				0.076 (J)	0.39
12/3/2019						0.19 (J)		
12/4/2019		0.18 (J)		0.26 (J)	0.11 (J)			
3/4/2020	0.07 (J)	<0.3	<0.3				<0.1	0.14 (J)
3/5/2020				0.051 (J)	<0.1	<0.1		
8/19/2020	0.17	0.19	0.12	0.14	<0.1			
8/20/2020						<0.1	<0.1	0.39
9/15/2020	0.15		0.057 (J)					
9/16/2020		0.15		0.13	<0.1	0.052 (J)	<0.1	
9/17/2020								0.46
3/2/2021	0.15					0.067 (J)	<0.1	
3/3/2021		0.24	0.13	0.13				
3/4/2021					<0.1			0.6
9/23/2021						0.06 (J)	<0.1	
9/27/2021								0.43
9/28/2021	0.15	0.16	0.081 (J)	0.11	<0.1			
2/2/2022	0.15			0.1	<0.1	<0.1	<0.1	
2/3/2022			0.11					0.42
2/4/2022		0.14						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/5/2024 1:39 PM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
8/23/2022	0.186						<0.1	
8/24/2022			0.103	0.318				0.497
8/25/2022		0.234			0.138	0.166		
1/24/2023					0.082 (J)			
1/25/2023		0.152				0.163		0.432
1/26/2023	0.202		0.0935 (J)	0.167			0.117	
8/23/2023				0.116	0.0477 (J)			
8/24/2023								0.499
8/25/2023	0.25	0.302	0.0849 (J)			0.185	0.243	
1/31/2024					0.207			
2/1/2024	0.221	0.222	0.0968 (J)	0.169			0.11	
2/2/2024						0.126		0.416

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/5/2024 1:39 PM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-52I	PZ-44	PZ-50D	PZ-51D	PZ-51I	PZ-58I	PZ-60I	PZ-61I
3/6/2018		<0.3						
5/1/2018		<0.3						
8/10/2018	1.6 (O)							
8/23/2018	0.32							
9/19/2018	0.22 (J)							
10/29/2018	0.14 (J)							
11/28/2018	0.24 (J)							
12/20/2018	0.3							
1/17/2019	0.23 (J)							
1/19/2019					<0.1			
2/13/2019	<0.3							
3/20/2019	0.135 (JD)							
8/29/2019	0.087 (J)							
10/16/2019	0.22 (J)							
10/18/2019					<0.1			
3/4/2020	0.1 (J)							
8/20/2020	0.23				<0.1			
9/17/2020	0.074 (J)				<0.1			
10/27/2020			0.28	0.21	<0.1			
3/3/2021				0.28				
3/4/2021	0.28				0.061 (J)			
3/5/2021			0.16					
9/27/2021					<0.1			0.067 (J)
9/28/2021	0.12	0.08 (J)	0.11	0.26		0.97	1.6	
2/2/2022	0.098 (J)	0.065 (J)			<0.1			<0.1
2/3/2022			0.15	0.27		1.8	2.3	
8/24/2022				0.318	0.148	1.09	1.32	0.103
8/25/2022	0.157	0.184	0.106					
1/25/2023	0.169	0.13						
1/26/2023				0.354	0.12	1.19	1.66	0.184
1/27/2023			0.151 (J)					
8/23/2023								0.188
8/24/2023		0.195	0.193		0.0744 (J)	1.1	1.32	
8/25/2023	0.188 (J)			0.395				
2/1/2024		0.242						
2/2/2024	0.215		0.202	0.299	0.0661 (J)	1.16	1.26	0.0694 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/5/2024 1:39 PM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	PZ-63I	PZ-64I	PZ-68D	PZ-74I	PZ-75I
2/4/2022	0.14				
8/25/2022	0.235				
10/12/2022		0.0781 (J)			
1/30/2023	0.23	0.0767 (J)			
2/1/2023			0.166		
8/24/2023	0.252	0.135	0.218		
8/25/2023				0.157	0.14
2/2/2024	0.289	0.133	0.211	0.232	0.0996 (J)

Time Series

Constituent: Lead (mg/L) Analysis Run 4/5/2024 1:39 PM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-12I (bg)	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)
8/31/2016				<0.0005	<0.0005	<0.0005	<0.0005	
9/1/2016	<0.002	<0.002						0.0001 (J)
9/6/2016			<0.0005					
11/15/2016							<0.0005	<0.0005
11/16/2016	<0.002	<0.002		<0.0005	<0.0005	<0.0005		
11/17/2016			<0.0005					
2/20/2017						<0.0005	0.0002 (J)	<0.0005
2/21/2017	<0.002	<0.002	<0.0005	<0.0005	<0.0005			
6/12/2017				8E-05 (J)		<0.0005	0.0001 (J)	8E-05 (J)
6/13/2017		<0.002	<0.0005		<0.0005			
6/14/2017	<0.002							
9/26/2017	<0.002	<0.002	<0.0005	7E-05 (J)	7E-05 (J)	<0.0005	0.0001 (J)	<0.0005
2/13/2018				<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
2/14/2018	<0.002	<0.002	<0.0005					
6/26/2018	<0.002	<0.002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
12/18/2018	<0.002	<0.002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
8/27/2019	<0.002	<0.002		<0.0005	5.8E-05 (J)	<0.0005	0.00036 (J)	<0.0005
8/29/2019			7E-05 (J)					
10/15/2019	<0.002	<0.002	<0.0005	<0.0005	<0.0005	<0.0005	7.9E-05 (J)	<0.0005
3/3/2020	<0.002	<0.002		<0.0005	<0.0005	<0.0005	7.9E-05 (J)	7.3E-05 (J)
3/4/2020			<0.0005					
8/18/2020	<0.002	<0.002	<0.0005	<0.0005	<0.0005	<0.0005	0.0001 (J)	<0.0005
9/15/2020	<0.002	<0.002	<0.0005	<0.0005	<0.0005	0.0013 (J)	4.3E-05 (J)	<0.0005
3/1/2021				<0.0005				<0.0005
3/2/2021	<0.002	<0.002	<0.0005		<0.0005	3.7E-05 (J)	<0.0005	
9/21/2021	<0.002	<0.002				<0.0005	<0.0005	
9/22/2021			<0.0005	<0.0005	<0.0005			<0.0005
2/1/2022	<0.002	<0.002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
8/23/2022	<0.002	<0.002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
1/24/2023	<0.002	<0.002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
8/31/2023			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
2/10/2024			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 4/5/2024 1:39 PM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
9/6/2016				<0.0005				
9/8/2016	<0.0005	<0.0005	0.0004 (J)		<0.0005			
11/17/2016	<0.0005							
11/18/2016		<0.0005						
11/21/2016			0.0006 (J)	<0.0005	<0.0005			
2/21/2017	<0.0005	<0.0005						
2/22/2017			0.0005 (J)	<0.0005	<0.0005			
6/13/2017	<0.0005	<0.0005						
6/14/2017			0.0004 (J)	<0.0005	<0.0005			
9/27/2017	<0.0005	<0.0005	0.0006 (J)	<0.0005	<0.0005			
2/14/2018	<0.0005	<0.0005	<0.005 (o)	<0.0005	<0.0005			
3/6/2018						<0.0005	<0.0005	
3/15/2018								<0.0005
5/1/2018						<0.0005	<0.0005 (D)	<0.0005
6/26/2018	<0.0005							
6/27/2018		<0.0005	0.00032 (J)		<0.0005		<0.0005	
6/28/2018				<0.0005		<0.0005		0.00054 (J)
7/31/2018						<0.0005		
8/1/2018							<0.0005	<0.0005
8/23/2018						<0.0005	<0.0005	
9/19/2018						<0.0005	<0.0005	
10/29/2018						<0.0005	<0.0005	0.0003 (J)
11/28/2018						<0.0005	<0.0005	<0.0005
12/18/2018	<0.0005		0.00038 (J)	<0.0005				
12/19/2018					<0.0005		<0.0005	<0.0005
12/20/2018		<0.0005				<0.0005		
1/16/2019								<0.0005
8/27/2019	0.00011 (J)			<0.0005	<0.0005			
8/28/2019		<0.0005	0.00027 (J)			<0.0005	<0.0005	
8/29/2019								4.9E-05 (J)
10/15/2019	<0.0005							
10/16/2019			0.00027 (J)				<0.0005	8.5E-05 (J)
12/3/2019						<0.0005		
12/4/2019		6.3E-05 (J)		<0.0005	<0.0005			
3/4/2020	<0.0005	<0.0005	0.0003 (J)				0.00012 (J)	0.0001 (J)
3/5/2020				<0.0005	<0.0005	0.00026 (J)		
8/19/2020	<0.0005	<0.0005	0.00025 (J)	<0.0005	<0.0005			
8/20/2020						0.00021 (J)	4.8E-05 (J)	6.7E-05 (J)
9/15/2020	<0.0005		0.00029 (J)					
9/16/2020		<0.0005		0.00011 (J)	<0.0005	5.3E-05 (J)	6.6E-05 (J)	
9/17/2020								0.00015 (J)
3/2/2021	<0.0005					<0.0005	<0.0005	
3/3/2021		<0.0005	0.00033 (J)	<0.0005				
3/4/2021					<0.0005			0.00016 (J)
9/23/2021						<0.0005	<0.0005	
9/27/2021								<0.0005
9/28/2021	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005			
2/2/2022	<0.0005			<0.0005	<0.0005	<0.0005	<0.0005	
2/3/2022			<0.0005					<0.0005
2/4/2022		<0.0005						
8/23/2022	<0.0005						<0.0005	
8/24/2022			<0.0005	<0.0005				<0.0005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 4/5/2024 1:39 PM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
8/25/2022		<0.0005			<0.0005	<0.0005		
1/24/2023					<0.0005			
1/25/2023		<0.0005				0.000595 (J)		<0.0005
1/26/2023	<0.0005		<0.0005	<0.0005			<0.0005	
8/31/2023				<0.0005	<0.0005			
9/6/2023	<0.0005	<0.0005	<0.0005			<0.0005	<0.0005	
9/8/2023								<0.0005
2/10/2024				<0.0005	<0.0005		<0.0005	
2/13/2024	<0.0005	<0.0005	<0.0005					
2/14/2024						<0.0005		<0.0005

Time Series

Constituent: Lead (mg/L) Analysis Run 4/5/2024 1:39 PM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-52I	PZ-44	PZ-50D	PZ-51D	PZ-51I	PZ-58I	PZ-60I	PZ-61I
3/6/2018		<0.0005						
5/1/2018		<0.0005						
8/10/2018	<0.0005							
8/23/2018	<0.0005							
9/19/2018	<0.0005							
10/29/2018	<0.0005							
11/28/2018	<0.0005							
12/20/2018	<0.0005							
1/17/2019	<0.0005							
1/19/2019					<0.0005			
2/13/2019	<0.0005							
8/29/2019	<0.0005							
10/16/2019	<0.0005							
10/18/2019					<0.0005			
3/4/2020	<0.0005							
8/20/2020	<0.0005				<0.0005			
9/17/2020	<0.0005				0.00036 (J)			
3/3/2021				0.00013 (J)				
3/4/2021	4.2E-05 (J)				0.00017 (J)			
3/5/2021			5.6E-05 (J)					
9/27/2021					<0.0005			0.0019
9/28/2021	<0.0005	<0.0005	<0.0005	<0.0005		<0.005	<0.0005	
2/2/2022	<0.0005	<0.0005			<0.0005			<0.0005
2/3/2022			<0.0005	<0.0005		<0.005	<0.0005	
8/24/2022				<0.0005	<0.0005	0.000894 (J)	<0.0005	0.00113 (J)
8/25/2022	<0.0005	<0.0005	<0.0005					
1/25/2023	<0.0005	<0.0005						
1/26/2023				<0.0005	<0.0005	0.000895 (J)	<0.0005	<0.0005
1/27/2023			<0.0005					
8/31/2023								<0.0005
9/6/2023	<0.0005			<0.0005				
9/8/2023		<0.0005	<0.0005		<0.0005	0.00086 (J)	<0.0005	
2/10/2024		<0.0005						
2/14/2024	<0.0005		<0.0005	<0.0005	<0.0005	0.000825 (J)	<0.0005	<0.0005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 4/5/2024 1:39 PM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	PZ-63I	PZ-64I	PZ-68D	PZ-74I	PZ-75I
2/4/2022	<0.0005				
8/25/2022	<0.0005				
10/12/2022		<0.0005			
1/30/2023	<0.0005	<0.0005			
2/1/2023			<0.002		
9/6/2023				<0.0005	<0.0005
9/8/2023	<0.0005	<0.0005	<0.002		
2/14/2024	<0.0005	<0.0005	0.000504 (J)	<0.0005	<0.0005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/5/2024 1:39 PM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-12I (bg)	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)
8/31/2016				0.0268 (J)	<0.003	<0.003	<0.003	
9/1/2016	0.0061 (J)	<0.01						0.003 (J)
9/6/2016			0.0028 (J)					
11/15/2016							<0.003	0.0033 (J)
11/16/2016	0.0054 (J)	<0.01		0.0201 (J)	<0.003	0.0033 (J)		
11/17/2016			0.0063 (J)					
2/20/2017						<0.003	<0.003	0.0025 (J)
2/21/2017	0.0058 (J)	<0.01	0.0052 (J)	0.0128 (J)	<0.003			
6/12/2017				0.0245 (J)		0.0019 (J)	<0.003	0.0027 (J)
6/13/2017		<0.01	0.0061 (J)		<0.003			
6/14/2017	0.0054 (J)							
9/26/2017	0.0037 (J)	<0.01	0.0087 (J)	0.0549	<0.003	0.0022 (J)	<0.003	0.0023 (J)
2/13/2018				0.0595	<0.003	0.0041 (J)	<0.003	0.0027 (J)
2/14/2018	0.0038 (J)	<0.01	0.0104 (J)					
6/26/2018	0.0045 (J)	<0.01	0.0095 (J)	0.089	<0.003	0.0025 (J)	<0.003	0.0029 (J)
12/18/2018	0.0038 (J)	<0.01	0.0091 (J)	0.024 (J)	<0.003	0.0032 (J)	<0.003	0.0026 (J)
8/27/2019	0.0039 (J)	<0.01		0.035	<0.003	0.0019 (J)	<0.003	0.0028 (J)
8/29/2019			0.007 (J)					
10/15/2019	0.0037 (J)	<0.01	0.0069 (J)	0.028 (J)	<0.003	0.002 (J)	<0.003	0.0024 (J)
3/3/2020	0.0033 (J)	<0.01		0.055	<0.003	0.0013 (J)	<0.003	0.0026 (J)
3/4/2020			0.0074 (J)					
8/18/2020	0.0039 (J)	<0.01	0.0099 (J)	0.054	<0.003	0.00095 (J)	<0.003	0.0026 (J)
9/15/2020	0.0037 (J)	<0.01	0.011 (J)	0.033	<0.003	0.001 (J)	<0.003	0.0027 (J)
3/1/2021				0.027 (J)				0.0036 (J)
3/2/2021	0.0045 (J)	<0.01	0.0093 (J)		<0.003	0.00081 (J)	<0.003	
9/21/2021	0.0037 (J)	<0.01				0.0012 (J)	<0.003	
9/22/2021			0.0074 (J)	0.021 (J)	<0.003			0.0035 (J)
2/1/2022	0.0037 (J)	<0.01	0.008 (J)	0.023 (J)	<0.003	0.0011 (J)	<0.003	0.0029 (J)
8/23/2022	0.00451 (J)	<0.01	0.00792 (J)	0.0262	<0.003	<0.003	<0.003	0.00314 (J)
1/24/2023	0.00529 (J)	<0.01	0.00749 (J)	0.00919 (J)	<0.003	<0.003	<0.003	0.00341 (J)
8/31/2023			0.00596 (J)	0.0209	<0.003	<0.003	<0.003	<0.01
2/10/2024			0.00729 (J)	0.00407 (J)	<0.003	<0.003	<0.003	0.00317 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/5/2024 1:39 PM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
9/6/2016				0.0117 (J)				
9/8/2016	<0.003	0.0021 (J)	0.004 (J)		<0.05			
11/17/2016	<0.003							
11/18/2016		<0.003						
11/21/2016			0.0039 (J)	0.0108 (J)	<0.05			
2/21/2017	<0.003	<0.003						
2/22/2017			0.0043 (J)	0.0103 (J)	0.0023 (J)			
6/13/2017	<0.003	0.0017 (J)						
6/14/2017			0.0036 (J)	0.0101 (J)	0.0022 (J)			
9/27/2017	<0.003	0.0016 (J)	0.0038 (J)	0.0116 (J)	0.0021 (J)			
2/14/2018	<0.003	0.0018 (J)	0.0034 (J)	0.0115 (J)	0.0023 (J)			
3/6/2018						0.0031 (J)	0.0399 (J)	
3/15/2018								0.038 (J)
5/1/2018						0.0038 (J)	0.0475 (JD)	0.042 (J)
6/26/2018	<0.003							
6/27/2018		0.0016 (J)	0.0034 (J)		0.0023 (J)		0.044 (J)	
6/28/2018				0.013 (J)		0.0028 (J)		0.04 (J)
7/31/2018						<0.25 (o)		
8/1/2018							0.039 (J)	0.036 (J)
8/23/2018						0.0033 (J)	0.044 (J)	
9/19/2018						0.0033 (J)	0.043 (J)	
10/29/2018						0.003 (J)	0.039 (J)	0.041 (J)
11/28/2018						0.0035 (J)	0.044 (J)	0.041 (J)
12/18/2018	<0.003		0.0032 (J)	0.014 (J)				
12/19/2018					0.0018 (J)		0.043 (J)	0.043 (J)
12/20/2018		0.0015 (J)				0.003 (J)		
1/16/2019								0.042 (J)
8/27/2019	<0.003			0.016 (J)	0.0022 (J)			
8/28/2019		0.0016 (J)	0.0033 (J)			0.0034 (J)	0.044	
8/29/2019								0.039
10/15/2019	<0.003							
10/16/2019			0.0029 (J)				0.038	0.034
12/3/2019						0.0033 (J)		
12/4/2019		0.0014 (J)		0.013 (J)	0.0022 (J)			
3/4/2020	<0.003	0.0014 (J)	0.0029 (J)				0.042	0.042
3/5/2020				0.016 (J)	0.0022 (J)	0.003 (J)		
8/19/2020	<0.003	0.0014 (J)	0.0029 (J)	0.018 (J)	0.002 (J)			
8/20/2020						0.0034 (J)	0.044	0.04
9/15/2020	<0.003		0.003 (J)					
9/16/2020		0.0014 (J)		0.016 (J)	0.0022 (J)	0.0036 (J)	0.039	
9/17/2020								0.052
3/2/2021	<0.003					0.0043 (J)	0.044	
3/3/2021		0.0012 (J)	0.0032 (J)	0.014 (J)				
3/4/2021					0.002 (J)			0.05
9/23/2021						0.0023 (J)	0.042	
9/27/2021								0.038
9/28/2021	<0.003	0.0011 (J)	0.0029 (J)	0.023 (J)	0.0021 (J)			
2/2/2022	<0.003			0.021 (J)	0.0035 (J)	0.0022 (J)	0.04	
2/3/2022			0.0026 (J)					0.038
2/4/2022		0.001 (J)						
8/23/2022	<0.003						0.0474	
8/24/2022			0.00304 (J)	0.0238				0.0428

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/5/2024 1:39 PM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
8/25/2022		<0.003			0.0043 (J)	<0.003		
1/24/2023					0.007 (J)			
1/25/2023		<0.003				0.00333 (J)		0.0542
1/26/2023	<0.003		0.00331 (J)	0.0279			0.0506	
8/31/2023				0.0253	0.00392 (J)			
9/6/2023	<0.003	<0.003	0.00349 (J)			<0.003	0.0532	
9/8/2023								0.0393
2/10/2024				0.0305	0.00591 (J)		0.0484	
2/13/2024	<0.003	<0.003	0.00337 (J)					
2/14/2024						<0.003		0.0376

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/5/2024 1:39 PM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-52I	PZ-44	PZ-50D	PZ-51D	PZ-51I	PZ-58I	PZ-60I	PZ-61I
3/6/2018		0.0046 (J)						
5/1/2018		0.0049 (J)						
8/10/2018	0.0087 (J)							
8/23/2018	0.0089 (J)							
9/19/2018	0.005 (J)							
10/29/2018	0.0048 (J)							
11/28/2018	0.0052 (J)							
12/20/2018	0.0042 (J)							
1/17/2019	0.0039 (J)							
1/19/2019					0.019 (J)			
2/13/2019	<0.05							
8/29/2019	0.0052 (J)							
10/16/2019	0.0023 (J)							
10/18/2019					0.019 (J)			
3/4/2020	0.002 (J)							
8/20/2020	0.0022 (J)				0.019 (J)			
9/17/2020	0.0058 (J)				0.021 (J)			
3/3/2021				0.0093 (J)				
3/4/2021	0.003 (J)				0.026 (J)			
3/5/2021			0.019 (J)					
9/27/2021					0.02 (J)			0.0095 (J)
9/28/2021	0.0035 (J)	0.0048 (J)	0.02 (J)	0.0096 (J)		0.041	0.1	
2/2/2022	0.0041 (J)	0.0058 (J)			0.021 (J)			0.011 (J)
2/3/2022			0.024 (J)	0.0096 (J)		0.041	0.098	
8/24/2022				0.0042 (J)	0.0222	0.0488	0.101	0.00913 (J)
8/25/2022	0.0162	0.00652 (J)	0.0255					
1/25/2023	0.0186	0.00728 (J)						
1/26/2023				0.00883 (J)	0.0247	0.0553	0.114	0.0123
1/27/2023			0.0274					
8/31/2023								0.0106
9/6/2023	0.0131			0.00667 (J)				
9/8/2023		0.0056 (J)	0.0232		0.0221	0.0468	0.0936	
2/10/2024		0.00537 (J)						
2/14/2024	0.0122		0.0254	0.00929 (J)	0.0225	0.0508	0.0958	0.00995 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/5/2024 1:39 PM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	PZ-63I	PZ-64I	PZ-68D	PZ-74I	PZ-75I
2/4/2022	0.007 (J)				
8/25/2022	0.00509 (J)				
10/12/2022		0.0181			
1/30/2023	0.0066 (J)	0.0187			
2/1/2023			0.00899 (J)		
9/6/2023				0.00711 (J)	0.00579 (J)
9/8/2023	0.00516 (J)	0.0126	0.00399 (J)		
2/14/2024	0.00557 (J)	0.0124	0.00564 (J)	0.00702 (J)	0.00411 (J)

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/5/2024 1:39 PM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-12I (bg)	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)
8/31/2016				<6.7E-05	<6.7E-05	<6.7E-05	<6.7E-05	
9/1/2016	<0.0002	<0.0002						<6.7E-05
9/6/2016			<6.7E-05					
11/15/2016							<6.7E-05	<6.7E-05
11/16/2016	<0.0002	<0.0002		<6.7E-05	<6.7E-05	<6.7E-05		
11/17/2016			<6.7E-05					
2/20/2017						<6.7E-05	8E-05 (J)	<6.7E-05
2/21/2017	<0.0002	<0.0002	<6.7E-05	<6.7E-05	<6.7E-05			
6/12/2017				4E-05 (J)		<6.7E-05	<6.7E-05	<6.7E-05
6/13/2017		<0.0002	<6.7E-05		<6.7E-05			
6/14/2017	6E-05 (J)							
9/26/2017	<0.0002	<0.0002	<6.7E-05	<6.7E-05	<6.7E-05	<6.7E-05	<6.7E-05	<6.7E-05
2/13/2018				0.00021	0.00019 (J)	<6.7E-05	0.00013 (J)	<6.7E-05
2/14/2018	5.2E-05 (J)	<0.0002	<6.7E-05					
6/26/2018	<0.0002	<0.0002	<6.7E-05	<6.7E-05	<6.7E-05	<6.7E-05	<6.7E-05	<6.7E-05
12/18/2018	<0.0002	<0.0002	<6.7E-05	<6.7E-05	<6.7E-05	<6.7E-05	<6.7E-05	<6.7E-05
8/27/2019	<0.0002	<0.0002		<6.7E-05	<6.7E-05	<6.7E-05	<6.7E-05	<6.7E-05
8/29/2019			<6.7E-05					
8/18/2020	<0.0002	<0.0002	<6.7E-05	<6.7E-05	<6.7E-05	<6.7E-05	<6.7E-05	<6.7E-05
9/15/2020	<0.0002	<0.0002	<6.7E-05	<6.7E-05	<6.7E-05	<6.7E-05	<6.7E-05	<6.7E-05
3/1/2021				<6.7E-05				<6.7E-05
3/2/2021	<0.0002	<0.0002	<6.7E-05		<6.7E-05	<6.7E-05	<6.7E-05	
9/21/2021	0.0001 (J)	0.0001 (J)				0.0001 (J)	0.0001 (J)	
9/22/2021			0.0001 (J)	0.0001 (J)	0.0001 (J)			0.0001 (J)
2/1/2022	<0.0002	<0.0002	<6.7E-05	<6.7E-05	<6.7E-05	<6.7E-05	<6.7E-05	<6.7E-05
8/23/2022	<0.0002	<0.0002	<6.7E-05	<6.7E-05	<6.7E-05	<6.7E-05	<6.7E-05	<6.7E-05
1/24/2023	<0.0002	<0.0002	<6.7E-05	<6.7E-05	<6.7E-05	<6.7E-05	<6.7E-05	<6.7E-05
8/25/2023			<6.7E-05	<6.7E-05	<6.7E-05	<6.7E-05	<6.7E-05	<6.7E-05
2/2/2024			<6.7E-05	<6.7E-05	<6.7E-05	<6.7E-05	<6.7E-05	<6.7E-05

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/5/2024 1:39 PM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
9/6/2016				<6.7E-05				
9/8/2016	<6.7E-05	<6.7E-05	<0.0002		<6.7E-05			
11/17/2016	<6.7E-05							
11/18/2016		<6.7E-05						
11/21/2016			<0.0002	<6.7E-05	<6.7E-05			
2/21/2017	<6.7E-05	<6.7E-05						
2/22/2017			<0.0002	<6.7E-05	<6.7E-05			
6/13/2017	<6.7E-05	5E-05 (J)						
6/14/2017			7E-05 (J)	7E-05 (J)	9E-05 (J)			
9/27/2017	4E-05 (J)	4.7E-05 (J)	4E-05 (J)	4E-05 (J)	0.0001 (J)			
2/14/2018	<6.7E-05	<6.7E-05	<0.0002	<6.7E-05	<6.7E-05			
3/6/2018						<6.7E-05	<6.7E-05	
3/15/2018								<6.7E-05
5/1/2018						<6.7E-05	<6.7E-05 (D)	<6.7E-05
6/26/2018	<6.7E-05							
6/27/2018		<6.7E-05	<0.0002		<6.7E-05		<6.7E-05	
6/28/2018				<6.7E-05		<6.7E-05		<6.7E-05
7/31/2018						<6.7E-05		
8/1/2018							<6.7E-05	<6.7E-05
8/23/2018						<6.7E-05	<6.7E-05	
9/19/2018						<6.7E-05	<6.7E-05	
10/29/2018						<6.7E-05	<6.7E-05	<6.7E-05
11/28/2018						<6.7E-05	<6.7E-05	<6.7E-05
12/18/2018	<6.7E-05		<0.0002	<6.7E-05				
12/19/2018					<6.7E-05		<6.7E-05	<6.7E-05
12/20/2018		<6.7E-05				<6.7E-05		
1/16/2019								<6.7E-05
8/27/2019	<6.7E-05			<6.7E-05	<6.7E-05			
8/28/2019		<6.7E-05	<0.0002			<6.7E-05	<6.7E-05	
8/29/2019								<6.7E-05
8/19/2020	8.3E-05 (J)	<6.7E-05	9.8E-05 (J)	8.2E-05 (J)	8.2E-05 (J)			
8/20/2020						<6.7E-05	<6.7E-05	<6.7E-05
9/15/2020	<6.7E-05		<0.0002					
9/16/2020		<6.7E-05		<6.7E-05	<6.7E-05	<6.7E-05	<6.7E-05	
9/17/2020								<6.7E-05
3/2/2021	<6.7E-05					<6.7E-05	<6.7E-05	
3/3/2021		<6.7E-05	<0.0002	<6.7E-05				
3/4/2021					<6.7E-05			<6.7E-05
9/23/2021						<6.7E-05	<6.7E-05	
9/27/2021								<6.7E-05
9/28/2021	<6.7E-05	<6.7E-05	<0.0002	<6.7E-05	<6.7E-05			
2/2/2022	<6.7E-05			<6.7E-05	<6.7E-05	<6.7E-05	<6.7E-05	
2/3/2022			<0.0002					<6.7E-05
2/4/2022		<6.7E-05						
8/23/2022	<6.7E-05						<6.7E-05	
8/24/2022			<0.0002	<6.7E-05				<6.7E-05
8/25/2022		<6.7E-05			<6.7E-05	<6.7E-05		
1/24/2023					<6.7E-05			
1/25/2023		<6.7E-05				<6.7E-05		<6.7E-05
1/26/2023	<6.7E-05		<0.0002	<6.7E-05			<6.7E-05	
8/25/2023				<6.7E-05	<6.7E-05			
8/29/2023	<6.7E-05	<6.7E-05	<0.0002			<6.7E-05	<6.7E-05	<6.7E-05

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/5/2024 1:39 PM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
2/2/2024				<6.7E-05	<6.7E-05		<6.7E-05	
2/5/2024	<6.7E-05	<6.7E-05	0.00078					
2/6/2024						<6.7E-05		<6.7E-05

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/5/2024 1:39 PM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-52I	PZ-44	PZ-50D	PZ-51D	PZ-51I	PZ-58I	PZ-60I	PZ-61I
3/6/2018		<6.7E-05						
5/1/2018		<6.7E-05						
8/10/2018	<6.7E-05							
8/23/2018	<6.7E-05							
9/19/2018	<6.7E-05							
10/29/2018	<6.7E-05							
11/28/2018	<6.7E-05							
12/20/2018	<6.7E-05							
1/17/2019	<6.7E-05							
1/19/2019					<6.7E-05			
2/13/2019	<6.7E-05							
8/29/2019	<6.7E-05							
10/18/2019					<6.7E-05			
8/20/2020	<6.7E-05				9.9E-05 (J)			
9/17/2020	<6.7E-05				<6.7E-05			
3/3/2021				<6.7E-05				
3/4/2021	<6.7E-05				<6.7E-05			
3/5/2021			<6.7E-05					
9/27/2021					<6.7E-05			<6.7E-05
9/28/2021	<6.7E-05	<6.7E-05	<6.7E-05	<6.7E-05		<0.0002	<6.7E-05	
2/2/2022	<6.7E-05	<6.7E-05			<6.7E-05			<6.7E-05
2/3/2022			<6.7E-05	<6.7E-05		<0.0002	<6.7E-05	
8/24/2022				<6.7E-05	<6.7E-05	<0.0002	<6.7E-05	<6.7E-05
8/25/2022	<6.7E-05	<6.7E-05	<6.7E-05					
1/25/2023	<6.7E-05	<6.7E-05						
1/26/2023				<6.7E-05	<6.7E-05	<0.0002	<6.7E-05	<6.7E-05
1/27/2023			<6.7E-05					
8/25/2023								<6.7E-05
8/29/2023	<6.7E-05	<6.7E-05	<6.7E-05	<6.7E-05	<6.7E-05	<0.0002	<6.7E-05	
2/2/2024		<6.7E-05						
2/6/2024	<6.7E-05		<6.7E-05	<6.7E-05	<6.7E-05	0.00146	<6.7E-05	<6.7E-05

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/5/2024 1:39 PM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	PZ-63I	PZ-64I	PZ-68D	PZ-74I	PZ-75I
2/4/2022	<6.7E-05				
8/25/2022	<6.7E-05				
10/12/2022		<6.7E-05			
1/30/2023	<6.7E-05	<6.7E-05			
2/1/2023			<6.7E-05		
8/29/2023	<6.7E-05	<6.7E-05	<6.7E-05	<6.7E-05	<6.7E-05
2/6/2024	<6.7E-05	<6.7E-05	<6.7E-05	<6.7E-05	<6.7E-05

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/5/2024 1:39 PM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-12I (bg)	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)
8/31/2016				0.0021 (J)	<0.0002	0.004 (J)	<0.0002	
9/1/2016	0.002 (J)	<0.001						<0.0002
9/6/2016			0.0028 (J)					
11/15/2016							<0.0002	<0.0002
11/16/2016	<0.01	<0.001		<0.01	<0.0002	0.0038 (J)		
11/17/2016			<0.001					
2/20/2017						0.0055 (J)	<0.0002	<0.0002
2/21/2017	<0.01	<0.001	<0.001	0.0021 (J)	<0.0002			
6/12/2017				0.0021 (J)		0.005 (J)	<0.0002	<0.0002
6/13/2017		<0.001	<0.001		<0.0002			
6/14/2017	<0.01							
9/26/2017	<0.01	<0.001	<0.001	0.0011 (J)	<0.0002	0.0053 (J)	<0.0002	<0.0002
2/13/2018				0.0019 (J)	<0.0002	0.008 (J)	<0.0002	<0.0002
2/14/2018	<0.01	<0.001	<0.001					
6/26/2018	<0.01	<0.001	<0.001	<0.01	<0.0002	0.0041 (J)	<0.0002	<0.0002
12/18/2018	<0.01	<0.001	<0.001	<0.01	<0.0002	0.0048 (J)	<0.0002	<0.0002
8/27/2019	<0.01	<0.001		<0.01	<0.0002	0.0028 (J)	<0.0002	<0.0002
8/29/2019			<0.001					
10/15/2019	<0.01	<0.001	<0.001	<0.01	<0.0002	0.0035 (J)	<0.0002	<0.0002
3/3/2020				<0.01	<0.0002	0.0023 (J)	<0.0002	<0.0002
8/18/2020	<0.01	<0.001	<0.001	0.0011 (J)	<0.0002	0.0015 (J)	<0.0002	<0.0002
9/15/2020	<0.01	<0.001	<0.001	0.0007 (J)	<0.0002	0.0015 (J)	<0.0002	<0.0002
3/1/2021				<0.01				<0.0002
3/2/2021	<0.01	<0.001	<0.001		<0.0002	0.0015 (J)	<0.0002	
9/21/2021	<0.01	<0.001				0.002 (J)	<0.0002	
9/22/2021			<0.001	0.0012 (J)	<0.0002			<0.0002
2/1/2022	<0.01	<0.001	<0.001	0.0013 (J)	<0.0002	0.002 (J)	<0.0002	<0.0002
8/23/2022	0.000413 (J)	<0.001	<0.001	0.0024	<0.0002	0.00151	<0.0002	<0.0002
1/24/2023	0.000388 (J)	<0.001	<0.001	0.000601 (J)	<0.0002	0.00192	<0.0002	<0.0002
8/31/2023			<0.001	0.00169	<0.0002	0.000953 (J)	<0.0002	<0.0002
2/10/2024			0.000217 (J)	0.000362 (J)	<0.0002	0.00143	<0.0002	<0.0002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/5/2024 1:39 PM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
9/6/2016				<0.01				
9/8/2016	<0.01	<0.001	<0.0002		<0.0002			
11/17/2016	<0.01							
11/18/2016		<0.001						
11/21/2016			<0.0002	<0.01	<0.0002			
2/21/2017	<0.01	<0.001						
2/22/2017			<0.0002	<0.01	<0.0002			
6/13/2017	<0.01	<0.001						
6/14/2017			<0.0002	<0.01	<0.0002			
9/27/2017	<0.01	<0.001	<0.0002	<0.01	<0.0002			
2/14/2018	<0.01	<0.001	<0.0002	<0.01	<0.0002			
3/6/2018						<0.0002	<0.01	
3/15/2018								<0.0002
5/1/2018						<0.0002	<0.01 (D)	0.0022 (J)
6/26/2018	<0.01							
6/27/2018		<0.001	<0.0002		<0.0002		<0.01	
6/28/2018				<0.01		<0.0002		<0.0002
7/31/2018						<0.0002		
8/1/2018							<0.01	0.0033 (J)
8/23/2018						<0.0002	<0.01	
9/19/2018						<0.0002	<0.01	
10/29/2018						<0.0002	<0.01	<0.0002
11/28/2018						<0.0002	<0.01	<0.0002
12/18/2018	<0.01		<0.0002	<0.01				
12/19/2018					<0.0002		<0.01	<0.0002
12/20/2018		<0.001				<0.0002		
1/16/2019								<0.0002
8/27/2019	<0.01			<0.01	<0.0002			
8/28/2019		<0.001	<0.0002			<0.0002	<0.01	
8/29/2019								<0.0002
10/15/2019	<0.01							
10/16/2019			<0.0002				<0.01	<0.0002
12/3/2019						<0.0002		
12/4/2019		<0.001		<0.01	<0.0002			
8/19/2020	0.00081 (J)	<0.001	<0.0002	0.00078 (J)	<0.0002			
8/20/2020						0.00076 (J)	<0.01	<0.0002
9/15/2020	0.0008 (J)		<0.0002					
9/16/2020		<0.001		0.0022 (J)	<0.0002	<0.0002	<0.01	
9/17/2020								<0.0002
3/2/2021	0.001 (J)					<0.0002	<0.01	
3/3/2021		<0.001	<0.0002	<0.01				
3/4/2021					<0.0002			<0.0002
9/23/2021						<0.0002	<0.01	
9/27/2021								<0.0002
9/28/2021	0.00089 (J)	<0.001	<0.0002	0.001 (J)	<0.0002			
2/2/2022	0.0011 (J)			0.0012 (J)	<0.0002	<0.0002	<0.01	
2/3/2022			<0.0002					<0.0002
2/4/2022		<0.001						
8/23/2022	0.00105						0.000296 (J)	
8/24/2022			<0.0002	0.00141				<0.0002
8/25/2022		<0.001			<0.0002	0.000424 (J)		
1/24/2023					<0.0002			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/5/2024 1:39 PM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
1/25/2023		<0.001				0.000545 (J)		<0.0002
1/26/2023	0.00092 (J)		<0.0002	0.0014			0.00027 (J)	
8/31/2023				0.00111	<0.0002			
9/6/2023	0.00141	<0.001	<0.0002			0.000356 (J)	0.000296 (J)	
9/8/2023								<0.0002
2/10/2024				0.00137	<0.0002		0.00028 (J)	
2/13/2024	0.0014	0.000213 (J)	<0.0002					
2/14/2024						<0.0002		<0.0002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/5/2024 1:39 PM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-52I	PZ-44	PZ-50D	PZ-51D	PZ-51I	PZ-58I	PZ-60I	PZ-61I
3/6/2018		<0.0002						
5/1/2018		<0.0002						
8/10/2018	0.0032 (J)							
8/23/2018	0.005 (J)							
9/19/2018	0.0061 (J)							
10/29/2018	0.0065 (J)							
11/28/2018	0.0027 (J)							
12/20/2018	<0.01							
1/17/2019	<0.01							
1/19/2019					<0.001			
2/13/2019	<0.01							
8/29/2019	<0.01							
10/16/2019	<0.01							
10/18/2019					<0.001			
8/20/2020	0.0012 (J)				<0.001			
9/17/2020	0.0007 (J)				<0.001			
3/3/2021				0.0068 (J)				
3/4/2021	0.001 (J)				<0.001			
3/5/2021			0.0017 (J)					
9/27/2021					<0.001			<0.0002
9/28/2021	<0.01	<0.0002	0.0021 (J)	0.0029 (J)		<0.0002	<0.0002	
2/2/2022	<0.01	<0.0002			<0.001			<0.0002
2/3/2022			0.0012 (J)	0.0017 (J)		<0.0002	<0.0002	
8/24/2022				0.00171	0.000313 (J)	<0.0002	<0.0002	<0.0002
8/25/2022	0.000471 (J)	<0.0002	0.00109					
1/25/2023	0.000609 (J)	<0.0002						
1/26/2023				0.00085 (J)	0.000283 (J)	<0.0002	<0.0002	<0.0002
1/27/2023			0.000817 (J)					
8/31/2023								<0.0002
9/6/2023	0.000782 (J)			0.00142				
9/8/2023		<0.0002	<0.001		<0.001	<0.0002	<0.0002	
2/10/2024		<0.0002						
2/14/2024	0.000564 (J)		0.000839 (J)	0.00198	0.000201 (J)	<0.0002	<0.0002	<0.0002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/5/2024 1:39 PM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	PZ-63I	PZ-64I	PZ-68D	PZ-74I	PZ-75I
2/4/2022	0.00092 (J)				
8/25/2022	0.000741 (J)				
10/12/2022		0.000432 (J)			
1/30/2023	0.000803 (J)	0.000201 (J)			
2/1/2023			0.0111		
9/6/2023				0.000597 (J)	<0.0002
9/8/2023	0.000539 (J)	<0.0002	0.00625		
2/14/2024	0.0007 (J)	<0.0002	0.00598	<0.0002	<0.0002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: pH, Field (S.U.) Analysis Run 4/5/2024 1:39 PM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-12I (bg)	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)
8/31/2016				7.16	6.2	6.53	6.59	
9/1/2016	6.71	6						6.49
9/6/2016			6.49					
11/15/2016							6.67	6.59
11/16/2016	6.15	6		6.96	6.12	6.4		
11/17/2016			5.79					
2/20/2017						6.44	6.65	6.61
2/21/2017	6.52	6.09	6.15	7.15	6.24			
6/12/2017				7.31		6.4	6.64	
6/13/2017	6.42	6.03	5.87		6.19			
6/14/2017	6.51							
9/26/2017	6.42	5.85	5.82	7.02	6.15	6.31	6.58	6.47
2/13/2018				7.44	6.18	6.62	6.72	6.54
2/14/2018	6.48	5.99	5.83					
6/26/2018	6.2	5.86	5.73	6.93	6.05	6.29	6.43	6.23
7/31/2018	6.37	5.99						
12/18/2018	6.5	6.08	5.78	6.76	5.92	6.57	6.7	6.71
3/19/2019	6.28	5.71	5.28	6.87	6.18	6.45	6.63	6.18
8/27/2019	6.35	6		6.79	6.09	6.37	6.49	6.35
8/29/2019			5.64					
10/15/2019	6.8	6.61	5.7	6.57	6.06	6.77	7.01	6.36
3/3/2020	6.33	5.94		6.71	6.1	6.29	6.49	6.59
3/4/2020			5.7					
8/18/2020	6.25	5.75	5.56	6.59	6.06	6.29	6.41	6.33
9/15/2020	6.01	6	5.72	6.64	6.01	6.27	6.25	6.43
3/1/2021				6.66				6.7
3/2/2021	6.11	5.92	5.75		6.2	6.47	6.42	
9/21/2021	6.53	5.87				6.32	6.36	
9/22/2021			5.72	6.78	6.06			6.48
2/1/2022	6.4	5.81	5.65	6.83	5.95	6.38	6.39	6.54
8/23/2022	6.39	5.9	5.66	6.67	5.95	6.24	6.36	6.51
1/24/2023	6.48	5.97	5.76	6.7	5.26	6.42	6.47	6.54
8/22/2023			5.89	6.91	5.97	6.36	6.09	6.27
1/30/2024			5.87	6.57	6.05	6.44	6.38	5.75

Time Series

Constituent: pH, Field (S.U.) Analysis Run 4/5/2024 1:39 PM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
9/6/2016				6.23				
9/8/2016	6.07	5.51	4.62		5.89			
11/16/2016	5.96							
11/18/2016		5.53						
11/21/2016			4.44	6.23	5.56			
2/21/2017	5.98	5.63						
2/22/2017			4.42	6.16	5.87			
6/13/2017	5.96	5.57						
6/14/2017			4.45	6.16	5.83			
9/27/2017	5.85	5.53	4.33	6.16	5.87			
2/14/2018	5.94	5.83	4.42	6.24	6.01			
3/15/2018						5.26		5.26
5/1/2018						6.14	5.85	5.38
6/26/2018	5.87							
6/27/2018		5.53	4.37		5.83		5.87	
6/28/2018				6.21		5.88		5.03
7/31/2018						6.07		
8/1/2018							5.79	5.22
9/19/2018						5.9	5.71	
10/29/2018						5.93	5.76	5.19
11/28/2018						5.99	5.74	5.28
12/18/2018	5.84		4.38	6.18				
12/19/2018					5.79		5.8	5.15
12/20/2018		5.78				6.04		
1/16/2019								5.14
3/6/2019								6.15
3/19/2019		5.75					5.89	
3/20/2019	6.03		4.4	6.24	5.88	6.1		5.32
8/27/2019	6.01			6.17	5.85			
8/28/2019		5.51	4.39			5.86	5.74	
8/29/2019								5.2
10/15/2019	6							
10/16/2019			4.79				5.9	5.36
10/17/2019		6.01 (D)		6.43	6.09	5.93		
3/4/2020	6.02	5.8	4.5				5.76	5.2
3/5/2020				5.99	5.74	5.95		
5/12/2020					5.88			
8/19/2020	6.32	5.81	4.67	6.36	5.97			
8/20/2020						5.86	5.75	5.26
9/15/2020	6		4.53					
9/16/2020		5.81		6.29	5.79	5.27	5.76	
9/17/2020								4.41
3/2/2021	6.1					6.17	5.59	
3/3/2021		5.9	4.46	6.29				
3/4/2021					5.98			4.34
9/23/2021						5.95	5.74	
9/27/2021								5.05
9/28/2021	5.97	5.82	4.23	6.33	5.82			
2/2/2022	6.23			6.34	5.99	5.92	5.75	
2/3/2022			4.23					5.2
2/4/2022		5.97						
8/23/2022	6.11						5.61	

Time Series

Constituent: pH, Field (S.U.) Analysis Run 4/5/2024 1:39 PM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
8/24/2022			4.39	6.38				5.01
8/25/2022		6.03			6.06	5.74		
1/24/2023					6.05			
1/25/2023		5.63				5.82		5.18
1/26/2023	6.18		4.3	6.28			5.65	
8/22/2023				6.44	5.98			
8/23/2023								5.12
8/24/2023	6.14	6.01	4.48			5.71	5.69	
1/30/2024				6.39	5.98		5.73	
1/31/2024	6.31	5.83	4.37					
2/1/2024						5.85		5.14

Time Series

Constituent: pH, Field (S.U.) Analysis Run 4/5/2024 1:39 PM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-52I	PZ-44	PZ-50D	PZ-51D	PZ-51I	PZ-58I	PZ-60I	PZ-61I
5/1/2018		6.12						
8/3/2018					5.47			
8/10/2018	6.28							
8/23/2018	6.75							
9/19/2018	6.48							
10/29/2018	6.77							
11/28/2018	6.44							
12/20/2018	6.75							
1/17/2019	6.41							
1/19/2019					5.45			
2/13/2019	6.42							
3/20/2019	6.59							
8/29/2019	6.27							
10/16/2019	7							
10/18/2019					5.79			
3/4/2020	6.54							
8/20/2020	6.85				5.57			
9/17/2020	6.12				4.93			
10/27/2020			6.47	6.79	5.49			
3/3/2021				7.1				
3/4/2021	5.87				4.57			
3/5/2021			7.06					
9/27/2021					5.34			5.02
9/28/2021	6.81	6.22	6.23	7.18		4	4.77	
2/2/2022	6.35	6.2			5.44			5.25
2/3/2022			6.24	6.77		3.9	4.73	
8/24/2022				7.15	5.49	3.81	4.55	5.14
8/25/2022	6.21	6.06	6.11					
1/25/2023	6.25	6.13						
1/26/2023				7.2	5.44	3.93	4.6	5.16
1/27/2023			6.24					
8/22/2023								5.16
8/23/2023			6.09		5.37	3.99	4.58	
8/24/2023	6.24			7.07				
1/30/2024		6.18						
2/1/2024	6.3		6.16	6.74	5.54	4.04	4.75	5.26

Time Series

Constituent: pH, Field (S.U.) Analysis Run 4/5/2024 1:39 PM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	PZ-63I	PZ-64I	PZ-68D	PZ-74I	PZ-75I
2/4/2022	5.89				
8/25/2022	5.65				
10/12/2022		5.53			
1/30/2023	5.66	5.33			
2/1/2023			7.28		
8/23/2023	5.68	5.21	7.41		
8/24/2023				5.89	5.76
2/1/2024	5.7	5.13	7.41	6.09	5.92

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/5/2024 1:39 PM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-12I (bg)	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)
8/31/2016				<0.0015	<0.0015	<0.0015	<0.0015	
9/1/2016	<0.005	<0.005						<0.0015
9/6/2016			<0.0015					
11/15/2016							<0.0015	<0.0015
11/16/2016	<0.005	<0.005		<0.0015	<0.0015	<0.0015		
11/17/2016			0.0052 (J)					
2/20/2017						<0.0015	<0.0015	<0.0015
2/21/2017	<0.005	<0.005	0.0018 (J)	<0.0015	<0.0015			
6/12/2017				<0.0015		<0.0015	<0.0015	<0.0015
6/13/2017		<0.005	<0.0015		<0.0015			
6/14/2017	<0.005							
9/26/2017	<0.005	<0.005	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015
2/13/2018				<0.0015	<0.0015	<0.0015	<0.0015	<0.0015
2/14/2018	<0.005	<0.005	<0.0015					
6/26/2018	<0.005	<0.005	0.0036 (J)	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015
12/18/2018	<0.005	<0.005	0.0044 (J)	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015
8/27/2019	<0.005	<0.005		<0.0015	<0.0015	<0.0015	<0.0015	<0.0015
8/29/2019			0.0023 (J)					
10/15/2019	<0.005	<0.005	0.0022 (J)	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015
3/3/2020	<0.005	<0.005		<0.0015	<0.0015	<0.0015	<0.0015	<0.0015
3/4/2020			0.0019 (J)					
8/18/2020	<0.005	<0.005	0.0033 (J)	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015
9/15/2020	<0.005	<0.005	0.0028 (J)	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015
3/1/2021				<0.0015				<0.0015
3/2/2021	<0.005	<0.005	0.006		<0.0015	<0.0015	<0.0015	
9/21/2021	<0.005	<0.005				<0.0015	<0.0015	
9/22/2021			0.0016 (J)	<0.0015	<0.0015			<0.0015
2/1/2022	<0.005	<0.005	0.002 (J)	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015
8/23/2022	<0.005	<0.005	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015
1/24/2023	<0.005	<0.005	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015
8/31/2023			<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015
2/10/2024			<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/5/2024 1:39 PM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
9/6/2016				<0.0015				
9/8/2016	<0.0015	0.0043 (J)	0.0039 (J)		<0.01			
11/17/2016	<0.0015							
11/18/2016		0.0047 (J)						
11/21/2016			0.0058 (J)	<0.0015	<0.01			
2/21/2017	<0.0015	0.0025 (J)						
2/22/2017			0.005 (J)	<0.0015	0.0017 (J)			
6/13/2017	<0.0015	0.0036 (J)						
6/14/2017			0.0074 (J)	0.0045 (J)	<0.01			
9/27/2017	<0.0015	0.004 (J)	0.0068 (J)	0.0034 (J)	0.0019 (J)			
2/14/2018	<0.0015	<0.0015	<0.005	<0.0015	<0.01			
3/6/2018						<0.0015	<0.0015	
3/15/2018								<0.0015
5/1/2018						<0.0015	<0.0015 (D)	<0.0015
6/26/2018	<0.0015							
6/27/2018		0.0014 (J)	<0.005		0.0017 (J)		<0.0015	
6/28/2018				<0.0015		<0.0015		<0.0015
7/31/2018						<0.0015		
8/1/2018							0.0015 (J)	0.0031 (J)
8/23/2018						<0.0015	<0.0015 (X)	
9/19/2018						<0.0015	0.002 (J)	
10/29/2018						<0.0015	<0.0015	0.002 (J)
11/28/2018						<0.0015	<0.0015	0.0017 (J)
12/18/2018	<0.0015		<0.005	<0.0015				
12/19/2018					0.0059 (J)		<0.0015	<0.0015
12/20/2018		<0.0015				<0.0015		
1/16/2019								<0.0015
8/27/2019	<0.0015			0.0038 (J)	0.057			
8/28/2019		0.0017 (J)	<0.005			<0.0015	<0.0015	
8/29/2019								<0.0015
10/15/2019	<0.0015							
10/16/2019			<0.005				0.0017 (J)	0.002 (J)
12/3/2019						0.0029 (J)		
12/4/2019		0.0036 (J)		0.0018 (J)	0.1			
3/4/2020	<0.0015	0.0022 (J)	0.0018 (J)				<0.0015	0.0026 (J)
3/5/2020				<0.0015	0.1	<0.0015		
5/12/2020					0.0989			
8/19/2020	<0.0015	<0.0015	<0.005	<0.0015	0.099			
8/20/2020						<0.0015	0.0016 (J)	0.0037 (J)
9/15/2020	<0.0015		<0.005					
9/16/2020		0.0042 (J)		<0.0015	0.12	<0.0015	0.002 (J)	
9/17/2020								<0.0015
3/2/2021	0.0021 (J)					<0.0015	0.0028 (J)	
3/3/2021		0.0031 (J)	0.0042 (J)	<0.0015				
3/4/2021					0.14			0.0039 (J)
9/23/2021						<0.0015	<0.0015	
9/27/2021								0.0022 (J)
9/28/2021	<0.0015	<0.0015	0.0022 (J)	<0.0015	0.13			
2/2/2022	<0.0015			<0.0015	0.21	<0.0015	<0.0015	
2/3/2022			<0.005					<0.0015
2/4/2022		<0.0015						
8/23/2022	<0.0015						<0.0015	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/5/2024 1:39 PM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
8/24/2022			<0.005	<0.0015				0.00176 (J)
8/25/2022		<0.0015			0.218	<0.0015		
1/24/2023					0.198			
1/25/2023		<0.0015				<0.0015		0.00189 (J)
1/26/2023	<0.0015		<0.005	<0.0015			<0.0015	
8/31/2023				<0.0015	0.21			
9/6/2023	<0.0015	<0.0015	<0.005			<0.0015	<0.0015	
9/8/2023								<0.0015
2/10/2024				<0.0015	0.17		<0.0015	
2/13/2024	<0.0015	<0.0015	0.00229 (J)					
2/14/2024						<0.0015		<0.0015

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/5/2024 1:39 PM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-52I	PZ-44	PZ-50D	PZ-51D	PZ-51I	PZ-58I	PZ-60I	PZ-61I
3/6/2018		<0.0015						
5/1/2018		<0.0015						
8/10/2018	<0.0015							
8/23/2018	<0.0015							
9/19/2018	<0.0015							
10/29/2018	<0.0015							
11/28/2018	<0.0015							
12/20/2018	<0.0015							
1/17/2019	<0.0015							
1/19/2019					<0.0015			
2/13/2019	<0.0015							
8/29/2019	<0.0015							
10/16/2019	<0.0015							
10/18/2019					<0.0015			
3/4/2020	<0.0015							
8/20/2020	<0.0015				<0.0015			
9/17/2020	<0.0015				<0.0015			
3/3/2021				<0.0015				
3/4/2021	<0.0015				<0.0015			
3/5/2021			<0.0015					
9/27/2021					<0.0015			0.0079
9/28/2021	<0.0015	<0.0015	<0.0015	<0.0015		0.0034 (J)	0.0049 (J)	
2/2/2022	<0.0015	<0.0015			<0.0015			0.0031 (J)
2/3/2022			<0.0015	<0.0015		0.0016 (J)	0.0026 (J)	
8/24/2022				<0.0015	<0.0015	0.00348 (J)	0.00417 (J)	0.0051
8/25/2022	<0.0015	<0.0015	<0.0015					
1/25/2023	<0.0015	<0.0015						
1/26/2023				<0.0015	<0.0015	0.00265 (J)	0.0031 (J)	0.00321 (J)
1/27/2023			<0.0015					
8/31/2023								0.00483 (J)
9/6/2023	<0.0015			<0.0015				
9/8/2023		<0.0015	<0.0015		<0.0015	0.00494 (J)	0.0043 (J)	
2/10/2024		<0.0015						
2/14/2024	<0.0015		<0.0015	<0.0015	<0.0015	0.00331 (J)	0.00275 (J)	0.00231 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/5/2024 1:39 PM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	PZ-63I	PZ-64I	PZ-68D	PZ-74I	PZ-75I
2/4/2022	<0.0015				
8/25/2022	<0.0015				
10/12/2022		0.0171			
1/30/2023	<0.0015	0.0292			
2/1/2023			<0.0015		
9/6/2023				0.0423	0.0696
9/8/2023	<0.0015	0.0163	<0.0015		
2/14/2024	<0.0015	0.0083	<0.0015	0.0489	0.0954

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/5/2024 1:39 PM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-12I (bg)	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)
8/31/2016				7.5	0.38 (J)	2.7	0.81 (J)	
9/1/2016	2.7	1.7						0.6 (J)
9/6/2016			38					
11/15/2016							<1 (J)	0.68 (J)
11/16/2016	3.6	1.2		6.6	<1 (J)	3.4		
11/17/2016			84					
2/20/2017						3.9 (B-01)	1 (B-01)	0.98 (J)
2/21/2017	3	1.1	39	6.1	1.5			
6/12/2017				5		3.7	0.94 (J)	0.54 (J)
6/13/2017		1.1	35		0.67 (J)			
6/14/2017	2.6							
9/26/2017	2.5	1.3	89	5.4	0.62 (J)	4.1	0.92 (J)	0.53 (J)
2/13/2018				4.7 (J)	<1	6.6	<1	<1
2/14/2018	2.1 (J)	<1	82.2					
6/26/2018	2	0.84 (J)	84.2	6.2	0.69 (J)	3.5	0.91 (J)	0.54 (J)
7/31/2018	1.9	0.63 (J)						
12/18/2018	2.1	0.66 (J)	83.4	5.9	0.72 (J)	4.3	0.68 (J)	0.39 (J)
3/19/2019	2.2	0.75 (J)	65	6 (D)	0.78 (J)	3	0.74 (J)	0.68 (J)
10/15/2019	1.9	0.61 (J)	30	5.2	0.47 (J)	3.8	0.68 (J)	0.48 (J)
3/3/2020	1.8	0.51 (J)		7.1	0.93 (J)	2.8	0.71 (J)	2.5
3/4/2020			38.6					
9/15/2020	1.7	<1	41.5	5.9	<1	1.7	<1	<1
3/1/2021				4.7				0.74 (J)
3/2/2021	1.7	0.51 (J)	54		<1	2.2	<1	
9/21/2021	1.7	0.51 (J)				2.3	<1	
9/22/2021			34.6	5.2	<1			<1
2/1/2022	1.4	<1	36.8	5.4	<1	2	<1	<1
8/23/2022	1.84	0.636	24.4	5.66	0.452	2.21	0.521	0.479
1/24/2023	1.8	0.628	19.7	3.58	0.465	3.34	0.66	0.484
8/23/2023			11.3	6.85	0.526	1.83	0.54	0.467
1/31/2024				2.65	0.423	2.74	0.617	0.456
2/1/2024			10.4					

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/5/2024 1:39 PM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
9/6/2016				310				
9/8/2016	280	300	460		370			
11/17/2016	200							
11/18/2016		320						
11/21/2016			500	300	420			
2/21/2017	360	270						
2/22/2017			570	280	380			
6/13/2017	290	230						
6/14/2017			440	290	400			
9/27/2017	310	260	380	260	400			
2/14/2018	260	232	280	250	383			
3/6/2018						111	1560	
3/15/2018								1590
5/1/2018						112	1465 (D)	1550
6/26/2018	231							
6/27/2018		205	281		372		1450	
6/28/2018				276		109		1530
7/31/2018						107		
8/1/2018							1560	1580
8/23/2018						108	1470	
9/19/2018						117	1500	
10/29/2018						127	1720	1750
11/28/2018						133	1730	1780
12/18/2018	231		293	440				
12/19/2018					370		1520	1650
12/20/2018		200				113		
1/16/2019								589 (O)
3/19/2019		199					1100	
3/20/2019	235 (D)		278	623	409	127		1740
10/15/2019	174							
10/16/2019			266				1560	1590
12/3/2019						105		
12/4/2019		241		327	293			
3/4/2020	165	205	238				1380	1370
3/5/2020				369	269	106		
9/15/2020	126		241					
9/16/2020		190		334	255	103	1360	
9/17/2020								1330
3/2/2021	139					98.3	1360	
3/3/2021		172	341	371				
3/4/2021					185			1250
9/23/2021						97.5	1240	
9/27/2021								1180
9/28/2021	112	137	250	612	189			
2/2/2022	117			580	210	90.1	1170	
2/3/2022			274					1270
2/4/2022		172						
8/23/2022	158						1410	
8/24/2022			298	935				1400
8/25/2022		176			254	114		
1/24/2023					247			
1/25/2023		150				102		1290

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/5/2024 1:39 PM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
1/26/2023	182		293	1030			1310	
8/24/2023				1250	256			
8/25/2023	174						1300	1290
8/26/2023		94.5	288			114		
2/1/2024				1210	246		1360	
2/2/2024	169		328					
2/3/2024		155						
2/9/2024						110		1310

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/5/2024 1:39 PM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-52I	PZ-44	PZ-50D	PZ-51D	PZ-51I	PZ-58I	PZ-60I	PZ-61I
3/6/2018		51.8						
5/1/2018		51						
8/3/2018					1170			
8/10/2018	183							
8/23/2018	145							
9/19/2018	178							
10/29/2018	157							
11/28/2018	189							
12/20/2018	150							
1/17/2019	157							
1/19/2019					1140			
2/13/2019	169							
3/20/2019	186.5 (D)							
10/16/2019	155							
10/18/2019					<1			
3/4/2020	129							
9/17/2020	165				1030			
10/27/2020			492	357	893			
3/3/2021				360				
3/4/2021	114				909			
3/5/2021			698					
9/27/2021					933			1420
9/28/2021	132	47.2	866	294		628	1670	
2/2/2022	126	45.3			889			1230
2/3/2022			903	339		767	2020	
8/24/2022				377	1240	840	1770	1800
8/25/2022	142	47	1060					
1/25/2023	145	41						
1/26/2023				370	1150	1070	1970	1490
1/27/2023			885					
8/24/2023								1440
8/25/2023	150	49.5	854	346	1200	949	1830	
2/1/2024		42.4						
2/2/2024	145							
2/9/2024			787	355	1270	1120	1920	
2/12/2024								1470

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/5/2024 1:39 PM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	PZ-63I	PZ-64I	PZ-68D	PZ-74I	PZ-75I
2/4/2022	195				
8/25/2022	234				
10/12/2022		2440			
1/30/2023	280	2800			
2/1/2023			258		
8/25/2023	294	2550	298		
8/26/2023				309	275
2/3/2024	352	2730	279	306	304

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/5/2024 1:39 PM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-12I (bg)	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)
8/31/2016				<0.0006	<0.0006	<0.0006	<0.0006	
9/1/2016	<0.002	<0.002						<0.0006
9/6/2016			<0.0006					
11/15/2016							<0.0006	<0.0006
11/16/2016	<0.002	<0.002		<0.0006	<0.0006	<0.0006		
11/17/2016			<0.0006					
2/20/2017						<0.0006	<0.0006	<0.0006
2/21/2017	<0.002	<0.002	<0.0006	<0.0006	<0.0006			
6/12/2017				<0.0006		<0.0006	<0.0006	<0.0006
6/13/2017		<0.002	<0.0006		<0.0006			
6/14/2017	<0.002							
9/26/2017	<0.002	<0.002	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
2/13/2018				<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
2/14/2018	<0.002	<0.002	<0.0006					
6/26/2018	<0.002	<0.002	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
12/18/2018	<0.002	<0.002	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
8/27/2019	<0.002	<0.002		<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
8/29/2019			<0.0006					
10/15/2019	<0.002	<0.002	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
3/3/2020	<0.002	<0.002		<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
3/4/2020			<0.0006					
8/18/2020	<0.002	<0.002	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
9/15/2020	<0.002	<0.002	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
3/1/2021				<0.0006				<0.0006
3/2/2021	<0.002	<0.002	<0.0006		<0.0006	<0.0006	<0.0006	
9/21/2021	<0.002	<0.002				<0.0006	<0.0006	
9/22/2021			<0.0006	<0.0006	<0.0006			<0.0006
2/1/2022	<0.002	<0.002	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
8/23/2022	<0.002	<0.002	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
1/24/2023	<0.002	<0.002	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
8/31/2023			<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
2/10/2024			<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/5/2024 1:39 PM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
9/6/2016				<0.0006				
9/8/2016	<0.0006	<0.0006	<0.0006		<0.0006			
11/17/2016	<0.0006							
11/18/2016		<0.0006						
11/21/2016			0.0002 (J)	<0.0006	<0.0006			
2/21/2017	<0.0006	<0.0006						
2/22/2017			0.0002 (J)	<0.0006	<0.0006			
6/13/2017	<0.0006	<0.0006						
6/14/2017			0.0002 (J)	<0.0006	<0.0006			
9/27/2017	<0.0006	<0.0006	0.0002 (J)	<0.0006	<0.0006			
2/14/2018	<0.0006	<0.0006	0.00018 (J)	<0.0006	<0.0006			
3/6/2018						<0.0006	<0.0006	
3/15/2018								<0.0006
5/1/2018						<0.0006	<0.0006 (D)	<0.0006
6/26/2018	<0.0006							
6/27/2018		<0.0006	0.00017 (J)		<0.0006		<0.0006	
6/28/2018				<0.0006		<0.0006		<0.0006
7/31/2018						<0.0006		
8/1/2018							<0.0006	<0.0006
8/23/2018						<0.0006	<0.0006	
9/19/2018						<0.0006	<0.0006	
10/29/2018						<0.0006	<0.0006	<0.0006
11/28/2018						<0.0006	<0.0006	<0.0006
12/18/2018	<0.0006		0.00017 (J)	<0.0006				
12/19/2018					<0.0006		<0.0006	<0.0006
12/20/2018		<0.0006				<0.0006		
1/16/2019								<0.0006
8/27/2019	<0.0006			<0.0006	<0.0006			
8/28/2019		<0.0006	0.00017 (J)			<0.0006	<0.0006	
8/29/2019								<0.0006
10/15/2019	<0.0006							
10/16/2019			0.00017 (J)				<0.0006	<0.0006
12/3/2019						<0.0006		
12/4/2019		<0.0006		<0.0006	<0.0006			
3/4/2020	<0.0006	<0.0006	0.00016 (J)				<0.0006	<0.0006
3/5/2020				<0.0006	<0.0006	<0.0006		
8/19/2020	<0.0006	<0.0006	0.00016 (J)	<0.0006	<0.0006			
8/20/2020						<0.0006	<0.0006	<0.0006
9/15/2020	<0.0006		0.00016 (J)					
9/16/2020		<0.0006		<0.0006	<0.0006	<0.0006	<0.0006	
9/17/2020								<0.0006
3/2/2021	<0.0006					<0.0006	<0.0006	
3/3/2021		<0.0006	0.00018 (J)	<0.0006				
3/4/2021					<0.0006			<0.0006
9/23/2021						<0.0006	<0.0006	
9/27/2021								<0.0006
9/28/2021	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006			
2/2/2022	<0.0006			<0.0006	<0.0006	<0.0006	<0.0006	
2/3/2022			<0.0006					<0.0006
2/4/2022		<0.0006						
8/23/2022	<0.0006						<0.0006	
8/24/2022			<0.0006	<0.0006				<0.0006

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/5/2024 1:39 PM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
8/25/2022		<0.0006			<0.0006	<0.0006		
1/24/2023					<0.0006			
1/25/2023		<0.0006				<0.0006		<0.0006
1/26/2023	<0.0006		<0.0006	<0.0006			<0.0006	
8/31/2023				<0.0006	<0.0006			
9/6/2023	<0.0006	<0.0006	<0.0006			<0.0006	<0.0006	
9/8/2023								<0.0006
2/10/2024				<0.0006	<0.0006		<0.0006	
2/13/2024	<0.0006	<0.0006	<0.0006					
2/14/2024						<0.0006		<0.0006

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/5/2024 1:39 PM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-52I	PZ-44	PZ-50D	PZ-51D	PZ-51I	PZ-58I	PZ-60I	PZ-61I
3/6/2018		<0.0006						
5/1/2018		<0.0006						
8/10/2018	<0.0006							
8/23/2018	<0.0006							
9/19/2018	<0.0006							
10/29/2018	<0.0006							
11/28/2018	<0.0006							
12/20/2018	<0.0006							
1/17/2019	<0.0006							
1/19/2019					<0.0006			
2/13/2019	<0.0006							
8/29/2019	<0.0006							
10/16/2019	<0.0006							
10/18/2019					<0.0006			
3/4/2020	<0.0006							
8/20/2020	<0.0006				<0.0006			
9/17/2020	<0.0006				<0.0006			
3/3/2021				<0.0006				
3/4/2021	<0.0006				<0.0006			
3/5/2021			<0.0006					
9/27/2021					<0.0006			<0.0006
9/28/2021	<0.0006	<0.0006	<0.0006	<0.0006		<0.0006	<0.0006	
2/2/2022	<0.0006	<0.0006			<0.0006			<0.0006
2/3/2022			<0.0006	<0.0006		<0.0006	<0.0006	
8/24/2022				<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
8/25/2022	<0.0006	<0.0006	<0.0006					
1/25/2023	<0.0006	<0.0006						
1/26/2023				<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
1/27/2023			<0.0006					
8/31/2023								<0.0006
9/6/2023	<0.0006			<0.0006				
9/8/2023		<0.0006	<0.0006		<0.0006	<0.0006	<0.0006	
2/10/2024		<0.0006						
2/14/2024	<0.0006		<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/5/2024 1:39 PM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	PZ-63I	PZ-64I	PZ-68D	PZ-74I	PZ-75I
2/4/2022	<0.0006				
8/25/2022	<0.0006				
10/12/2022		<0.0006			
1/30/2023	<0.0006	<0.0006			
2/1/2023			<0.0006		
9/6/2023				<0.0006	<0.0006
9/8/2023	<0.0006	<0.0006	<0.0006		
2/14/2024	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/5/2024 1:39 PM View: Pond BCD

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-12I (bg)	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)
8/31/2016				151	88	138	154	
9/1/2016	142	69						299 (o)
9/6/2016			146					
11/15/2016							123	41
11/16/2016	100	100		69	41	77		
11/17/2016			211					
2/20/2017						170	158	133
2/21/2017	71	37	151	68	<25			
6/12/2017				161		132	142	61
6/13/2017		84	130		53			
6/14/2017	140							
9/26/2017	149	68	160	167	45	108	138	29
2/13/2018				165	63	141	150	61
2/14/2018	137	138	194					
6/26/2018	142	90	221	188	71	133	154	71
7/31/2018	133	83						
12/18/2018	135	85	208	145 (X)	78 (X)	138 (X)	147	70 (X)
3/19/2019	132 (JX)	82 (JX)	161 (JX)	146.5 (D)	68	130	146	72
10/15/2019	134	89	124	140	66	175	144	63
3/3/2020	115	72		155	41	<10	130	54
3/4/2020			118					
9/15/2020	95	60	109	116	69	100	116	79
3/1/2021				98				39
3/2/2021	93	43	105		43	80	96	
9/21/2021	117	56				108	104	
9/22/2021			128	129	66			62
2/1/2022	114	63	130	126	72	129	124	61
8/23/2022	104	55	103	117	45	107	101	52
1/24/2023	114	59	102	93	63	124	104	64
8/25/2023			70		36		73	
8/28/2023				81		80		30
2/6/2024			85	98	54	118	113	45

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/5/2024 1:39 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
9/6/2016				505				
9/8/2016	460	478	654		607			
11/17/2016	611							
11/18/2016		503						
11/21/2016			819	515	695			
2/21/2017	497	380						
2/22/2017			721	504	635			
6/13/2017	474	354						
6/14/2017			661	536	635			
9/27/2017	457	376	518	432	601			
2/14/2018	431	503 (JX)	487	448	628			
3/6/2018						346	2200	
3/15/2018								2440
5/1/2018						374	2080 (D)	2190
6/26/2018	414							
6/27/2018		458 (X)	648 (X)		2280		31 (OX)	
6/28/2018				494		333		2290
7/31/2018						393		
8/1/2018							2190	2360
8/23/2018						350	2160	
9/19/2018						353	2160	
10/29/2018						329	2130	2300
11/28/2018						358	2320	2300
12/18/2018	401		407	715				
12/19/2018					605		2060	2190
12/20/2018		344				322		
1/16/2019								2270
3/19/2019		334 (JX)					2050 (JX)	
3/20/2019	410.5 (D)		391	885	564	302		2280
10/15/2019	380							
10/16/2019			2030				2220	2280
12/3/2019						362		
12/4/2019		422		612	526			
3/4/2020	330	326	391				2140	2270
3/5/2020				681	489	297		
9/15/2020	272		281					
9/16/2020		301		634	428	275	2090	
9/17/2020								1910
3/2/2021	280					264	1680	
3/3/2021		288	515	690				
3/4/2021					350			1520
9/23/2021						277	1770	
9/27/2021								1800
9/28/2021	270	262	457	1050	375			
2/2/2022	283			1110	443	276	1850	
2/3/2022			419					1850
2/4/2022		301						
8/23/2022	315						2060	
8/24/2022			383	1540				1990
8/25/2022		311			437	248		
1/24/2023					425			
1/25/2023		260				251		2040

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/5/2024 1:39 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47	BRGWC-50
1/26/2023	339		419	1680			2010	
8/25/2023				1920	412			
8/30/2023	354	309	418			242	1970	2180
2/6/2024				1970	418		2160	
2/7/2024	391	299	535					
2/8/2024						255		1970

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/5/2024 1:39 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-52I	PZ-44	PZ-50D	PZ-51D	PZ-51I	PZ-58I	PZ-60I	PZ-61I
3/6/2018		191						
5/1/2018		189						
8/3/2018					1900			
8/10/2018	344							
8/23/2018	333							
9/19/2018	364							
10/29/2018	334							
11/28/2018	357							
12/20/2018	355							
1/17/2019	347							
1/19/2019					1660			
2/13/2019	350							
3/20/2019	360 (D)							
10/16/2019	346							
10/18/2019					1550			
3/4/2020	351							
9/17/2020	329				1600			
10/27/2020			914	680	1200			
3/3/2021				598				
3/4/2021	383				830			
3/5/2021			1210					
9/27/2021					1560			2100
9/28/2021	336	181	1470	650		1120	2600	
2/2/2022	160	181			1590			1970
2/3/2022			1380	686		1170	2480	
8/24/2022				715	1740	1380	2830	2400
8/25/2022	296	167	1750					
1/25/2023	276	156						
1/26/2023				693	1750	1440	2880	2280
1/27/2023			1400					
8/25/2023								2220
8/29/2023					1860	1570	2880	
8/30/2023	281	184	1360	638				
2/6/2024		179						
2/8/2024	303		1330	715	1970	1710	2690	1960

Time Series

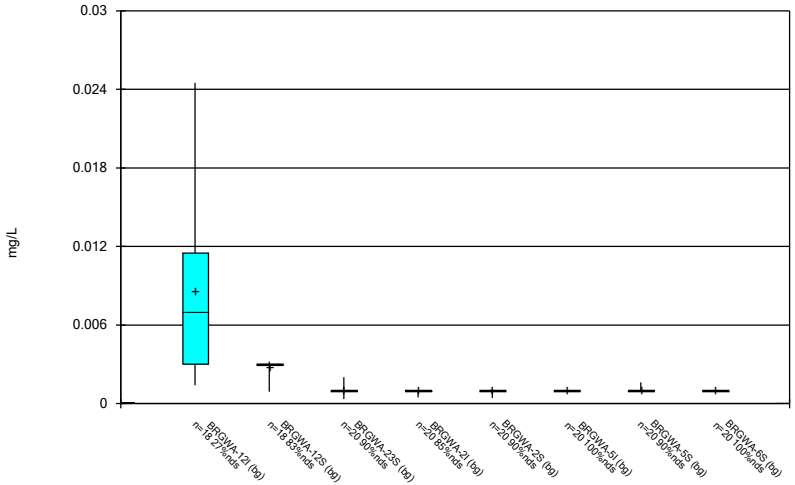
Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/5/2024 1:39 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

	PZ-63I	PZ-64I	PZ-68D	PZ-74I	PZ-75I
2/4/2022	403				
8/25/2022	419				
10/12/2022		3780			
1/30/2023	448	4260			
2/1/2023			525		
8/29/2023	503	4640			
8/30/2023			597	506	430
2/8/2024	561	4420	583	536	450

FIGURE B.

Sanitas™ v.10.0.16 . UG

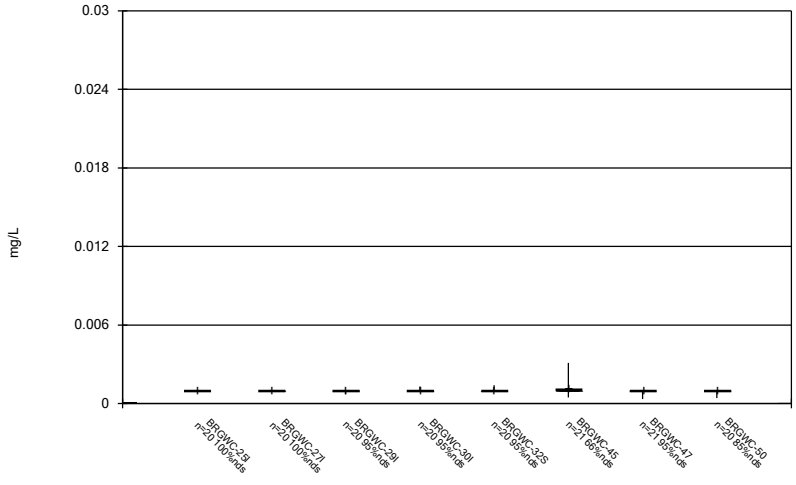
Box & Whiskers Plot



Constituent: Antimony Analysis Run 4/5/2024 1:40 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Box & Whiskers Plot



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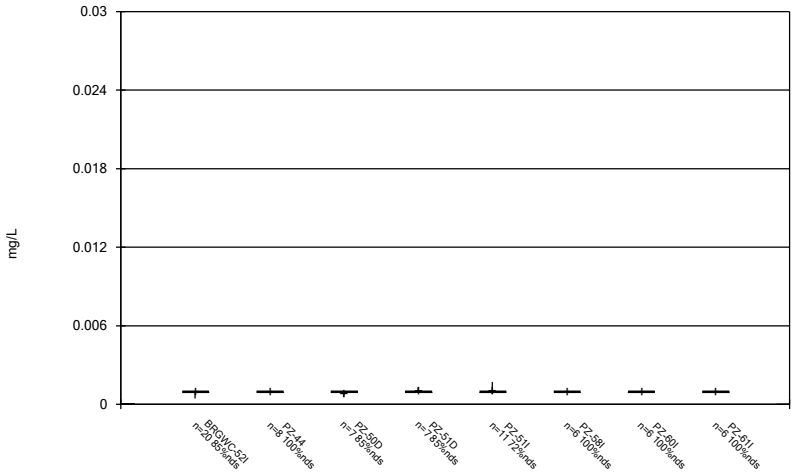
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

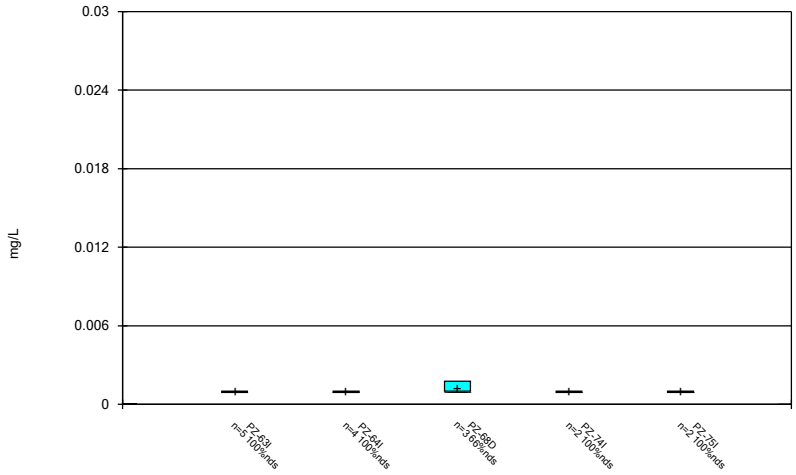
Box & Whiskers Plot



Constituent: Antimony Analysis Run 4/5/2024 1:40 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Box & Whiskers Plot



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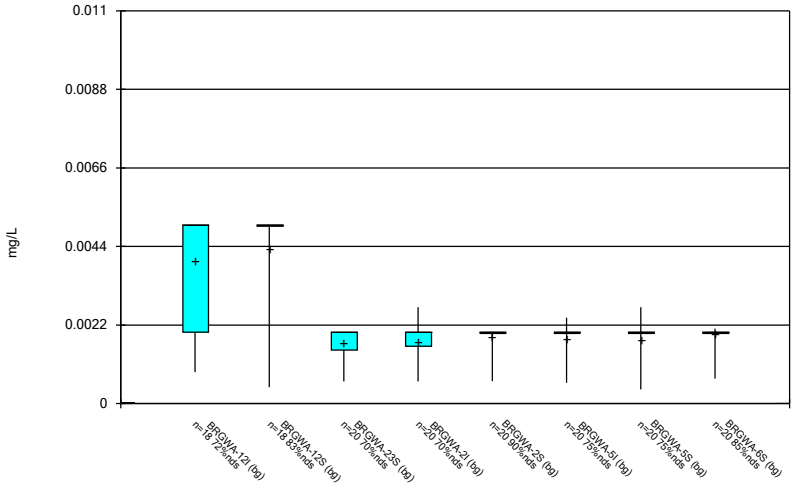
Plant Branch Client: Southern Company Data: Plant Branch AP

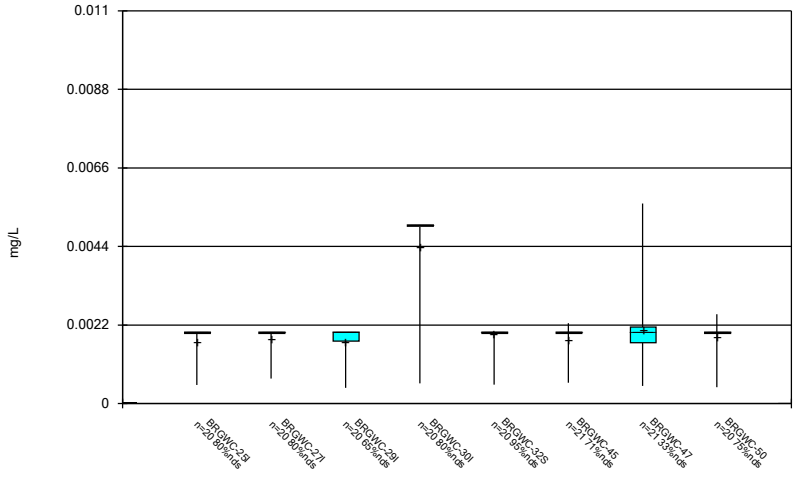
Box & Whiskers Plot



Constituent: Arsenic Analysis Run 4/5/2024 1:40 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

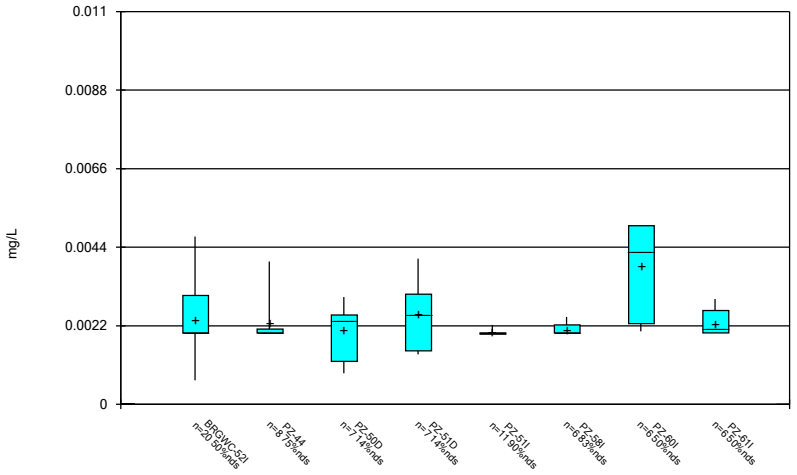
Box & Whiskers Plot



Constituent: Arsenic Analysis Run 4/5/2024 1:40 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Box & Whiskers Plot



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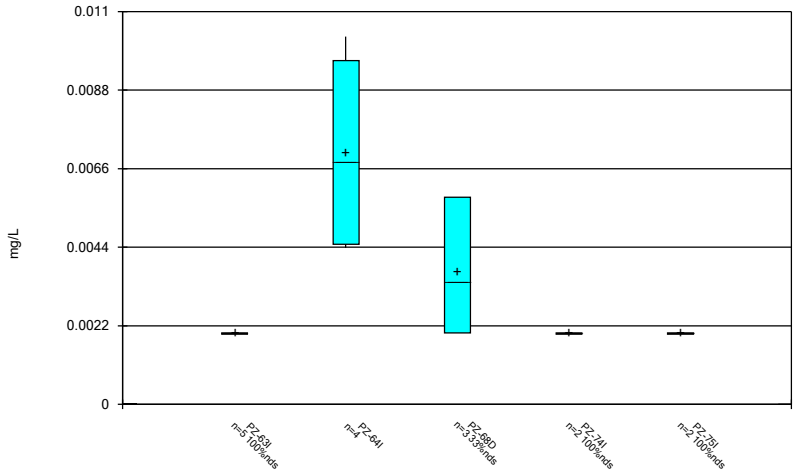
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Box & Whiskers Plot



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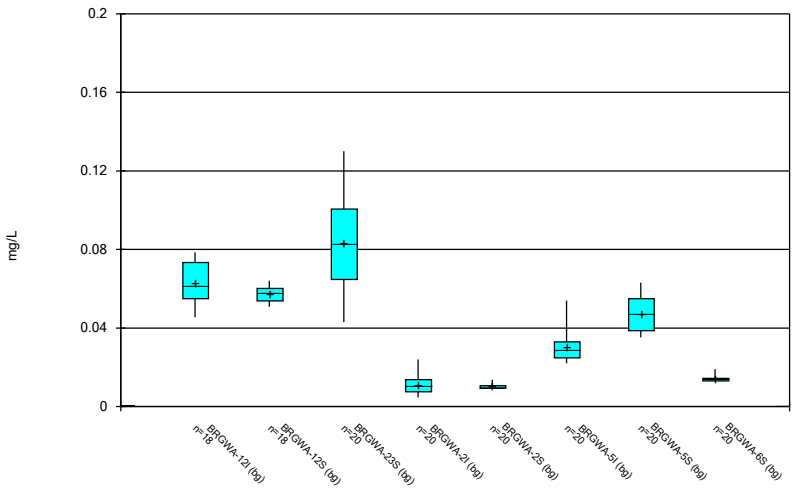
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

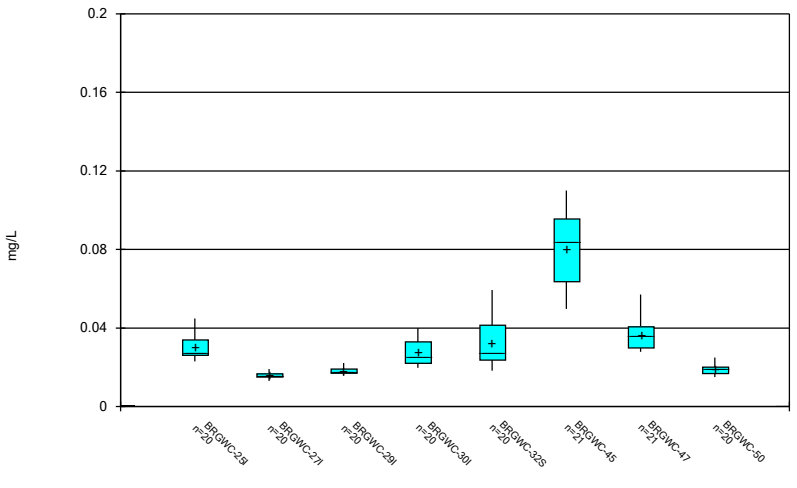
Box & Whiskers Plot



Constituent: Barium Analysis Run 4/5/2024 1:40 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Box & Whiskers Plot



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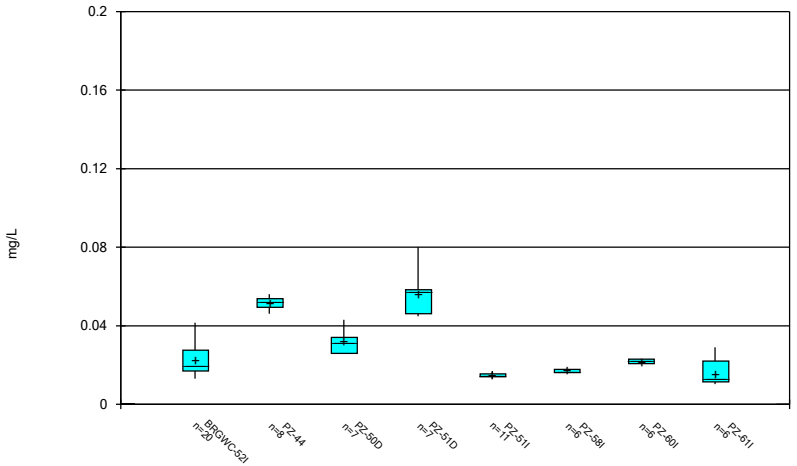
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

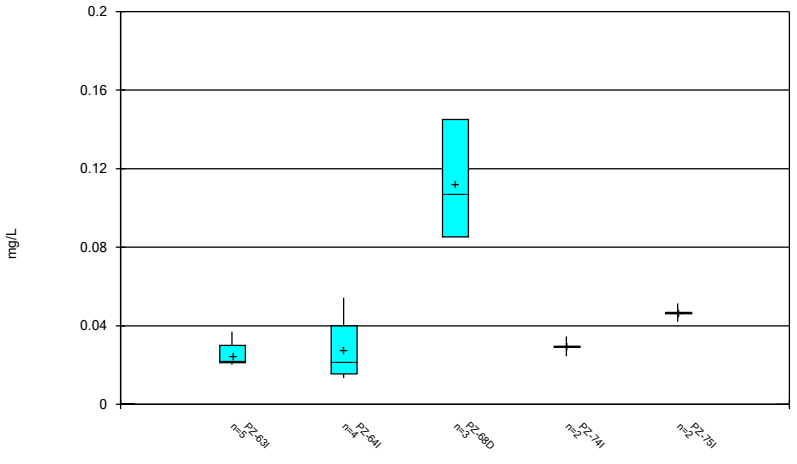
Box & Whiskers Plot



Constituent: Barium Analysis Run 4/5/2024 1:40 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

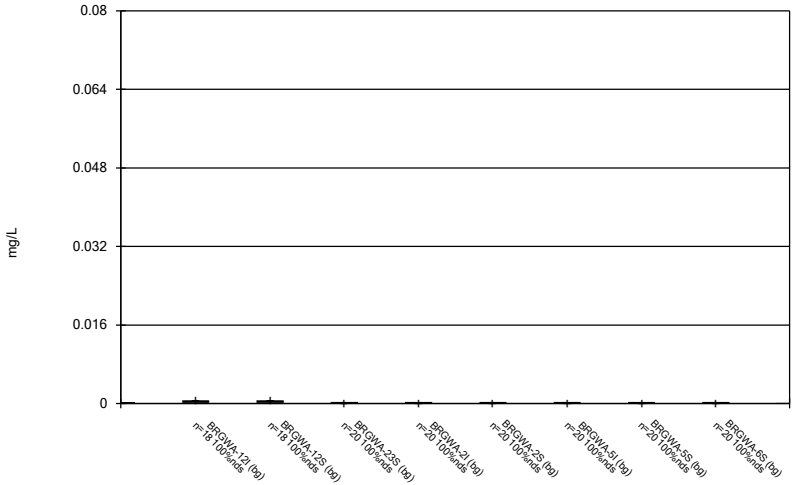
Box & Whiskers Plot



Constituent: Barium Analysis Run 4/5/2024 1:40 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

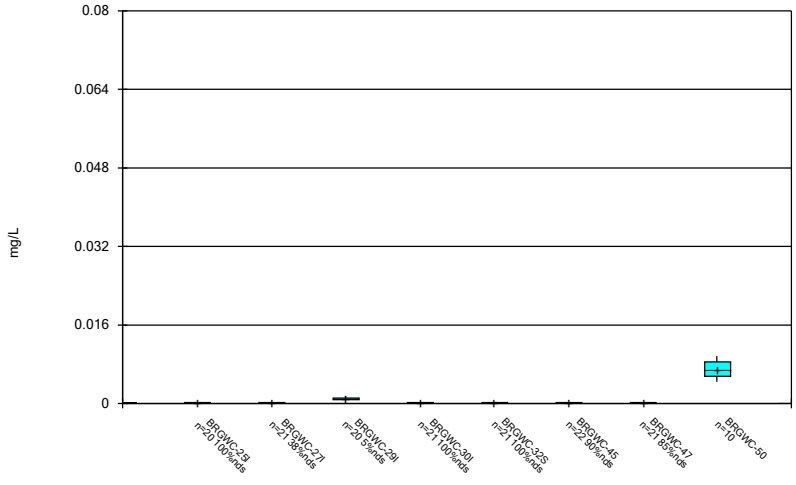
Box & Whiskers Plot



Constituent: Beryllium Analysis Run 4/5/2024 1:40 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

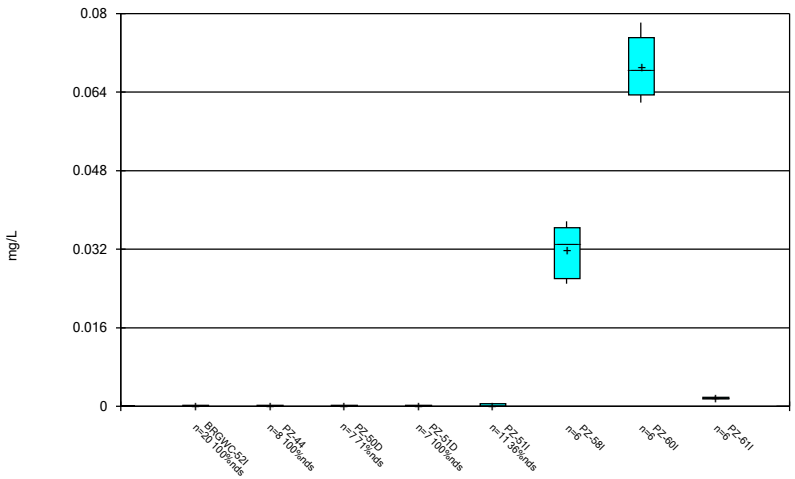
Box & Whiskers Plot



Constituent: Beryllium Analysis Run 4/5/2024 1:40 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

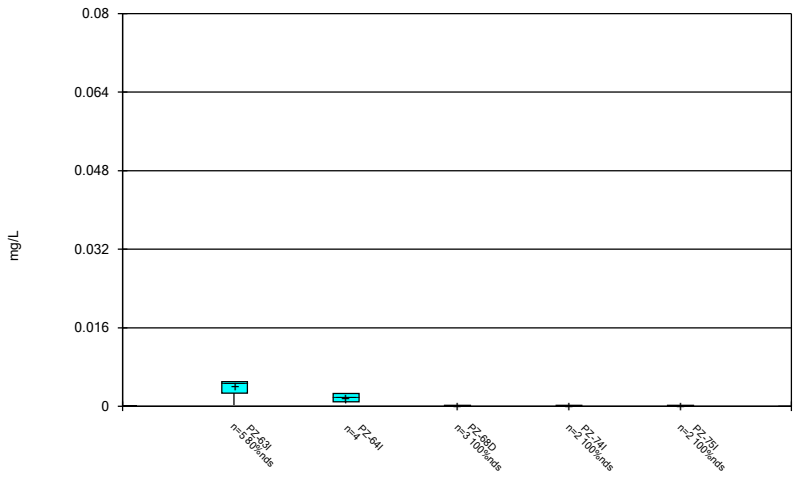
Box & Whiskers Plot



Constituent: Beryllium Analysis Run 4/5/2024 1:40 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

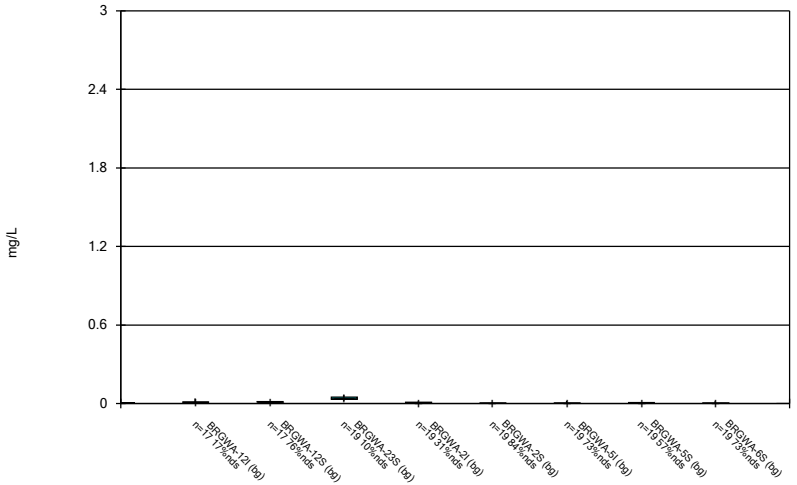
Box & Whiskers Plot



Constituent: Beryllium Analysis Run 4/5/2024 1:40 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

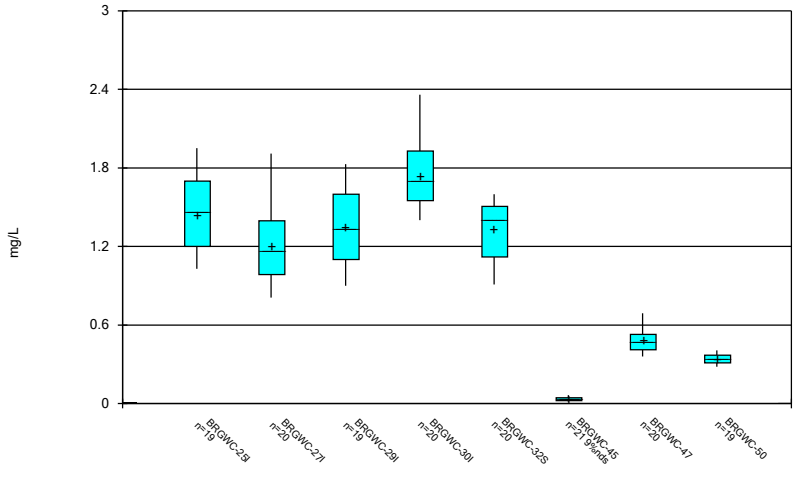
Box & Whiskers Plot



Constituent: Boron Analysis Run 4/5/2024 1:40 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

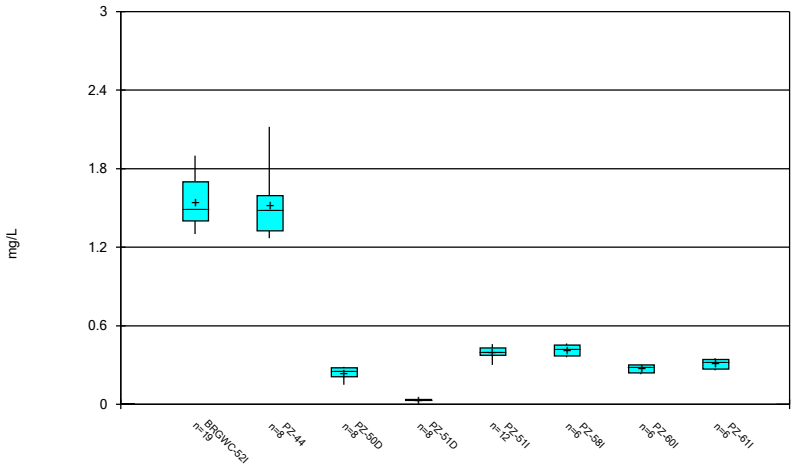
Box & Whiskers Plot



Constituent: Boron Analysis Run 4/5/2024 1:40 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

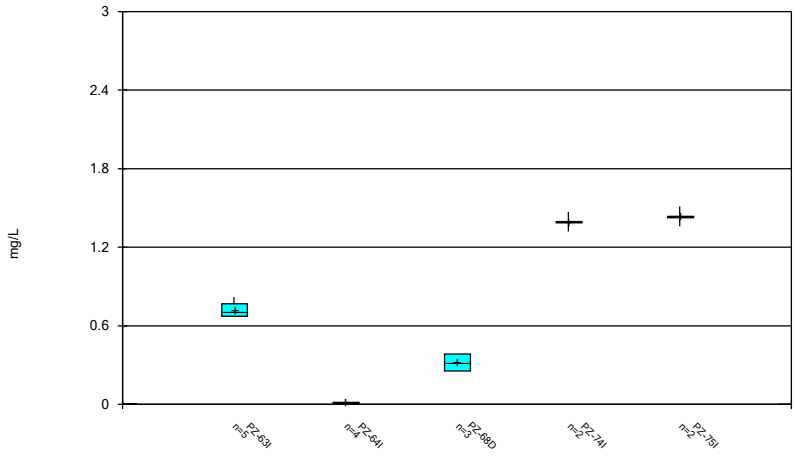
Box & Whiskers Plot



Constituent: Boron Analysis Run 4/5/2024 1:40 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

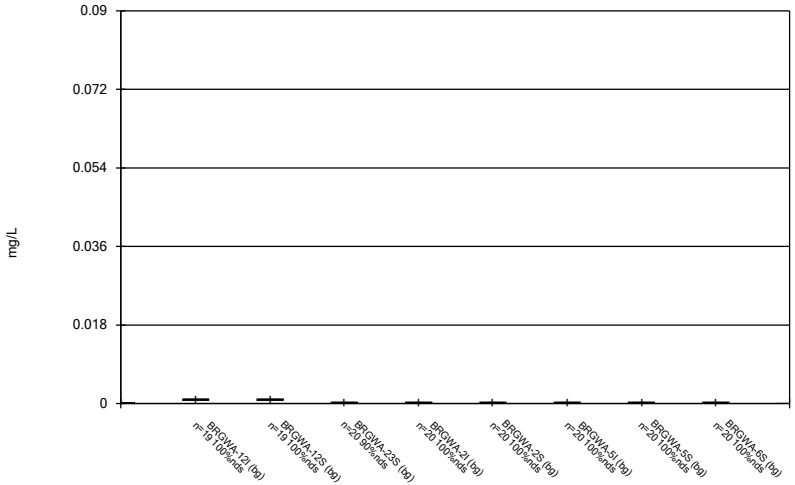
Box & Whiskers Plot



Constituent: Boron Analysis Run 4/5/2024 1:40 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

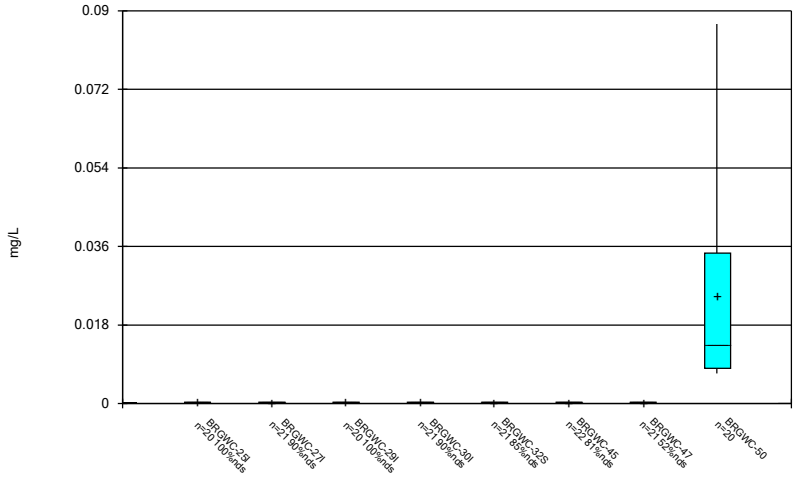
Box & Whiskers Plot



Constituent: Cadmium Analysis Run 4/5/2024 1:40 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

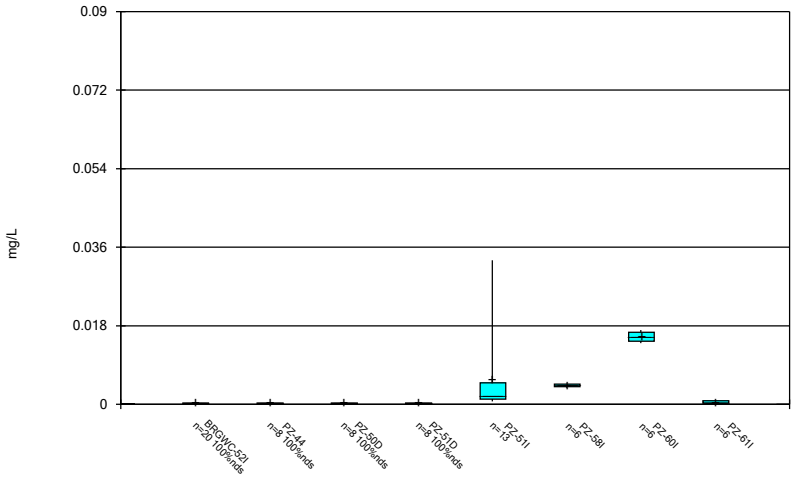
Box & Whiskers Plot



Constituent: Cadmium Analysis Run 4/5/2024 1:40 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

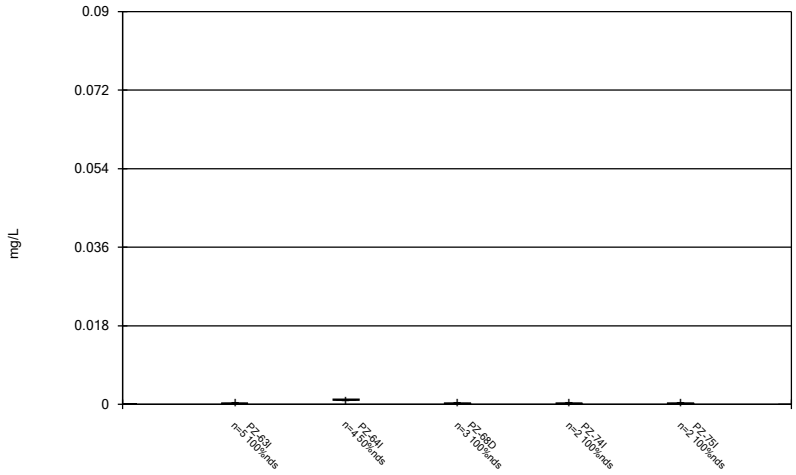
Box & Whiskers Plot



Constituent: Cadmium Analysis Run 4/5/2024 1:40 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

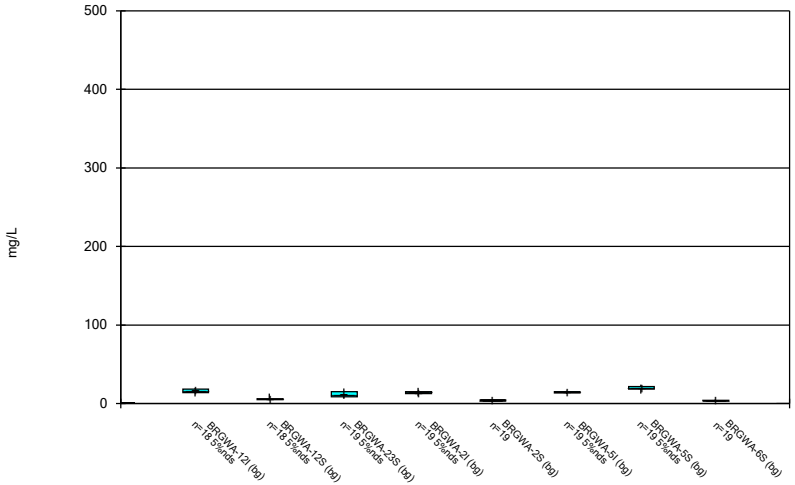
Box & Whiskers Plot



Constituent: Cadmium Analysis Run 4/5/2024 1:40 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

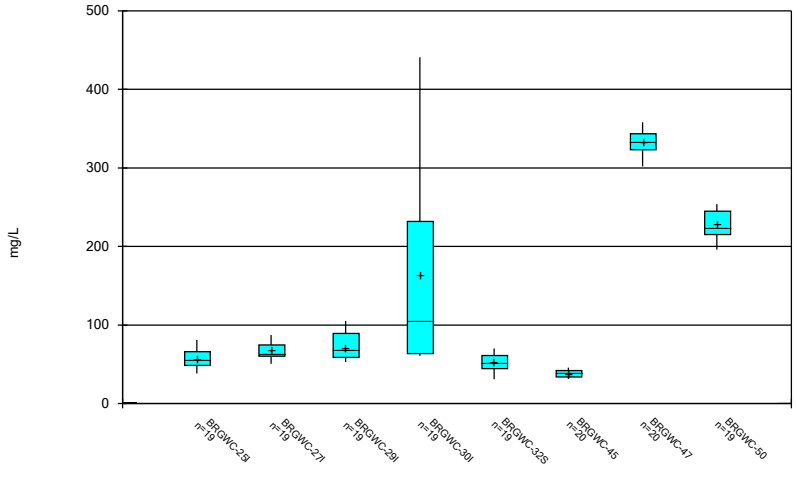
Box & Whiskers Plot



Constituent: Calcium Analysis Run 4/5/2024 1:40 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

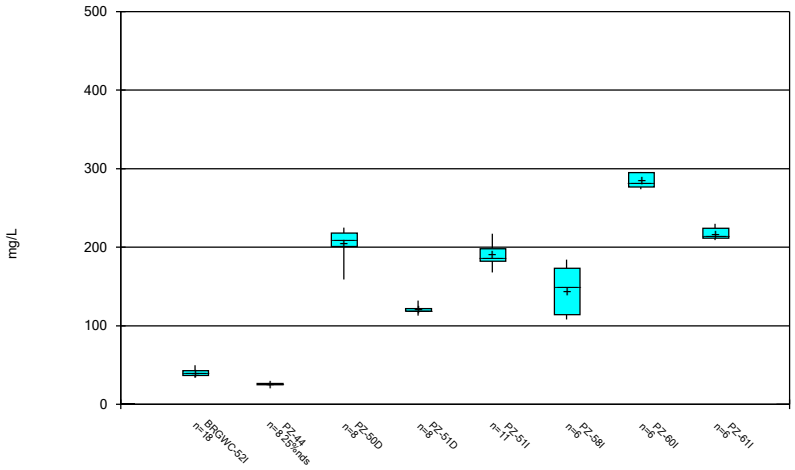
Box & Whiskers Plot



Constituent: Calcium Analysis Run 4/5/2024 1:40 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

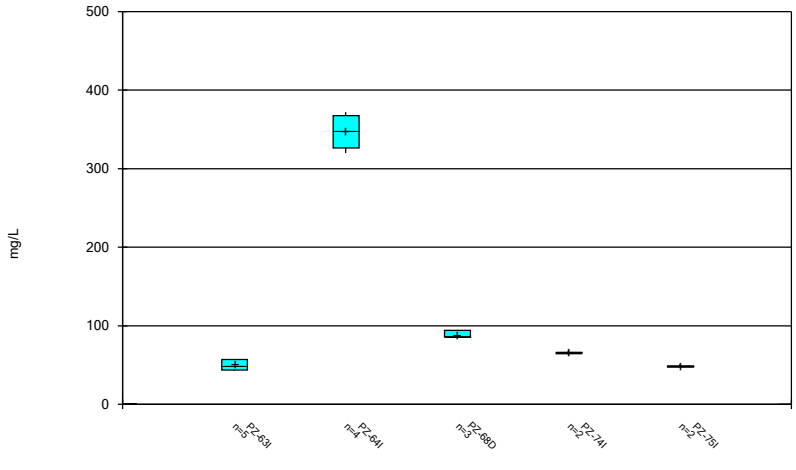
Box & Whiskers Plot



Constituent: Calcium Analysis Run 4/5/2024 1:40 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

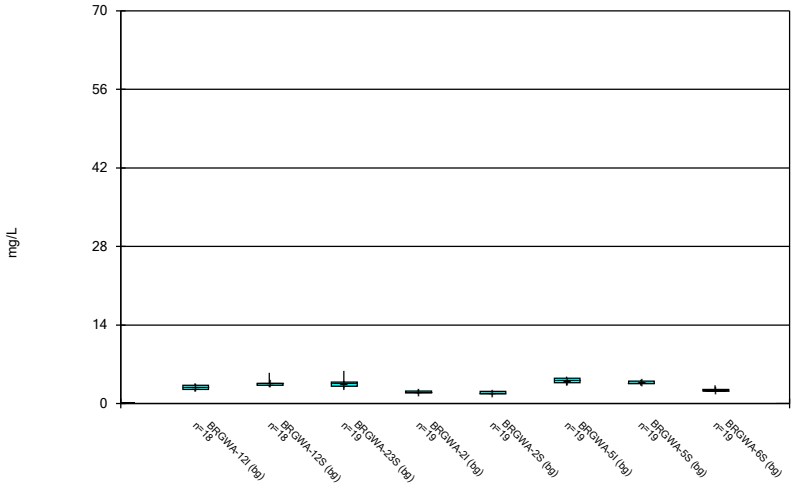
Box & Whiskers Plot



Constituent: Calcium Analysis Run 4/5/2024 1:40 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

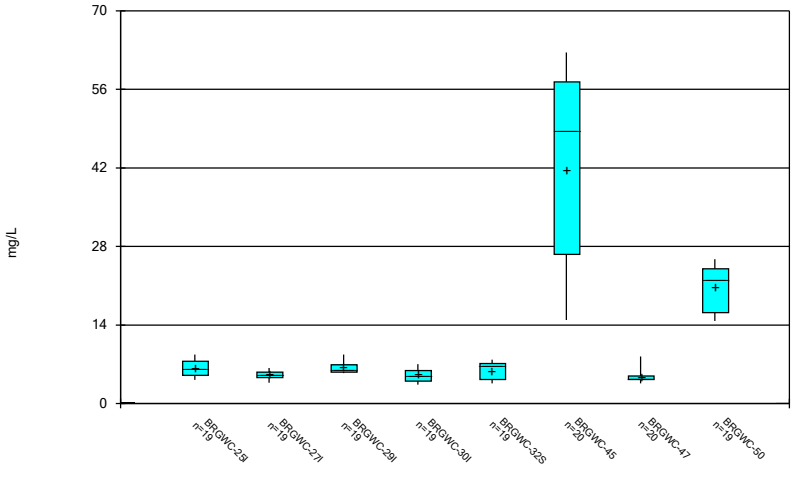
Box & Whiskers Plot



Constituent: Chloride Analysis Run 4/5/2024 1:40 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

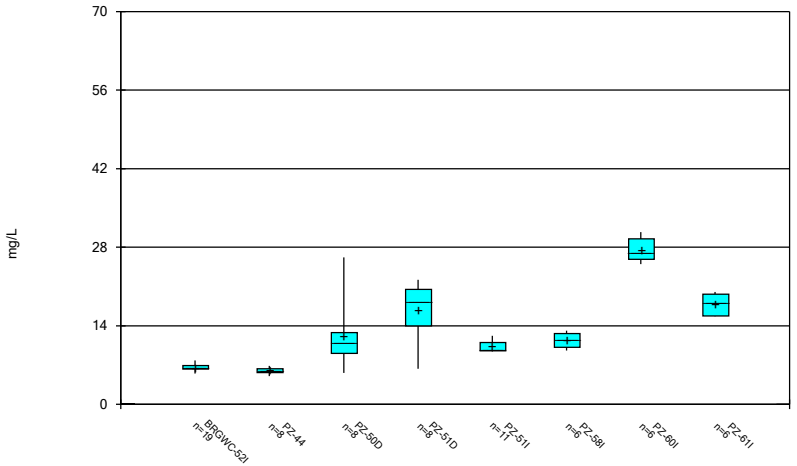
Box & Whiskers Plot



Constituent: Chloride Analysis Run 4/5/2024 1:40 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

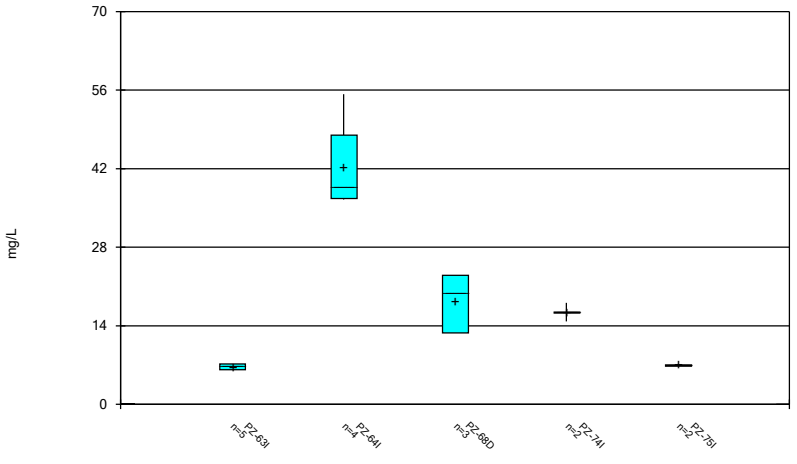
Box & Whiskers Plot



Constituent: Chloride Analysis Run 4/5/2024 1:40 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

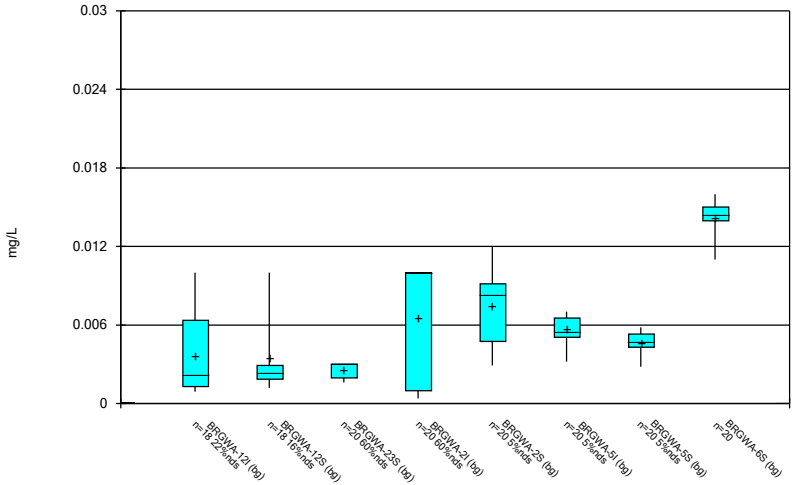
Box & Whiskers Plot



Constituent: Chloride Analysis Run 4/5/2024 1:40 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

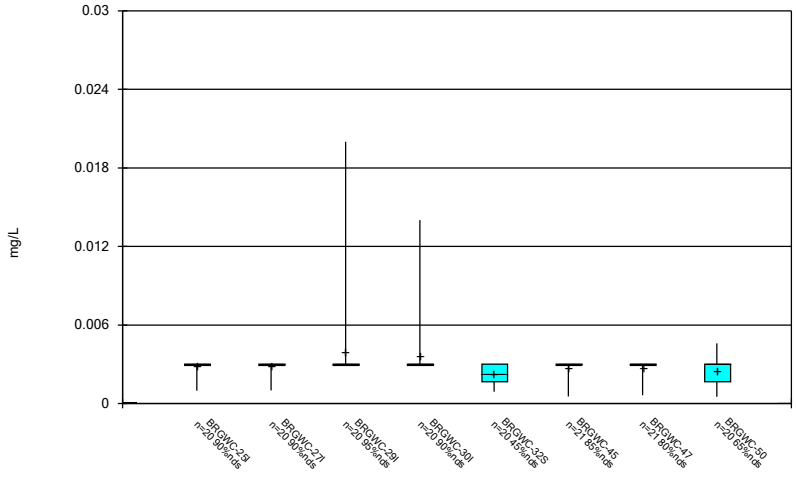
Box & Whiskers Plot



Constituent: Chromium Analysis Run 4/5/2024 1:40 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

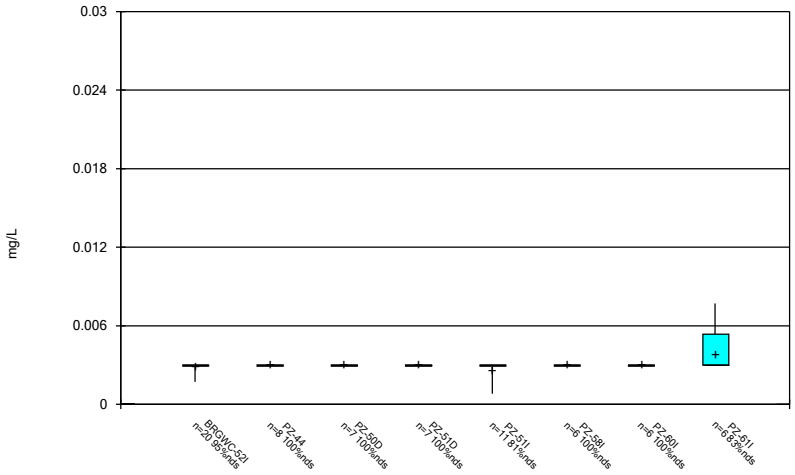
Box & Whiskers Plot



Constituent: Chromium Analysis Run 4/5/2024 1:40 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

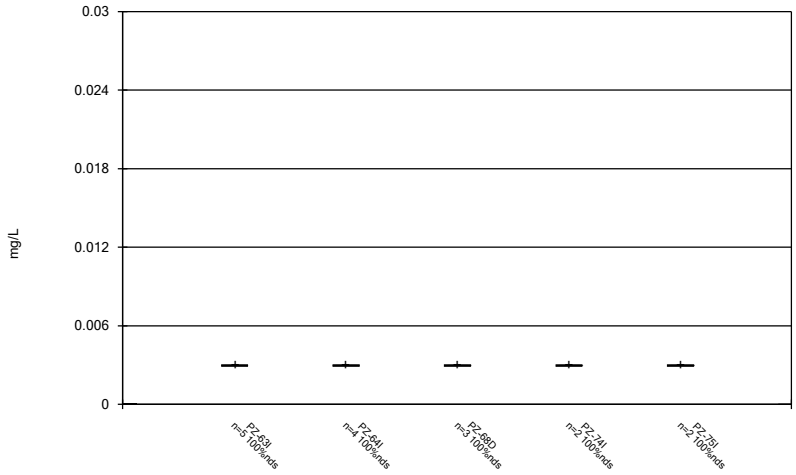
Box & Whiskers Plot



Constituent: Chromium Analysis Run 4/5/2024 1:40 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

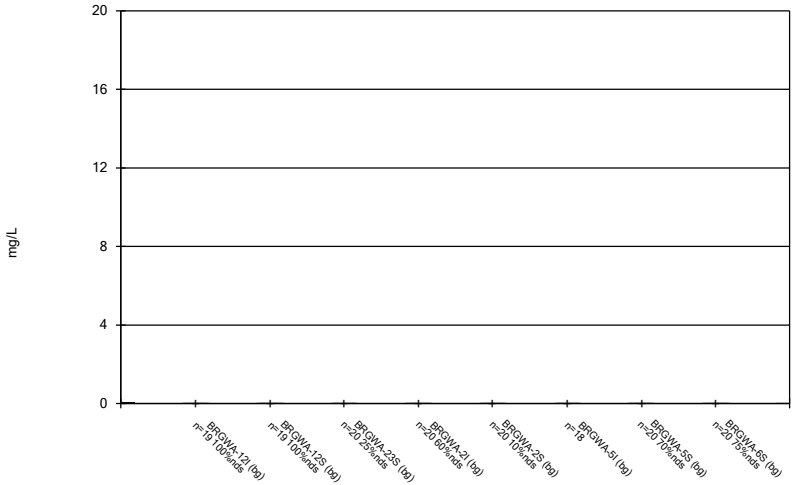
Box & Whiskers Plot



Constituent: Chromium Analysis Run 4/5/2024 1:40 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

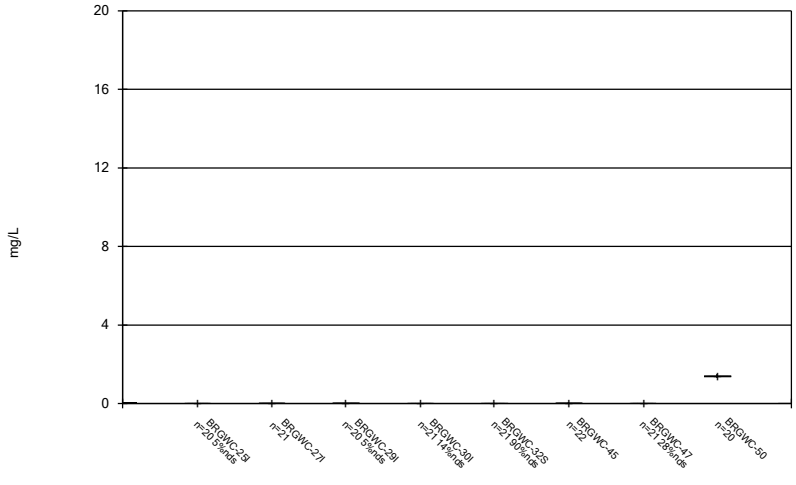
Box & Whiskers Plot



Constituent: Cobalt Analysis Run 4/5/2024 1:40 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

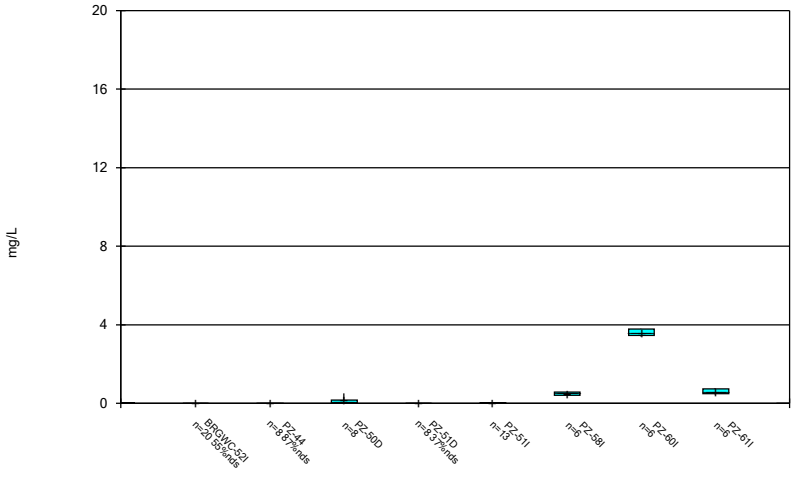
Box & Whiskers Plot



Constituent: Cobalt Analysis Run 4/5/2024 1:40 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

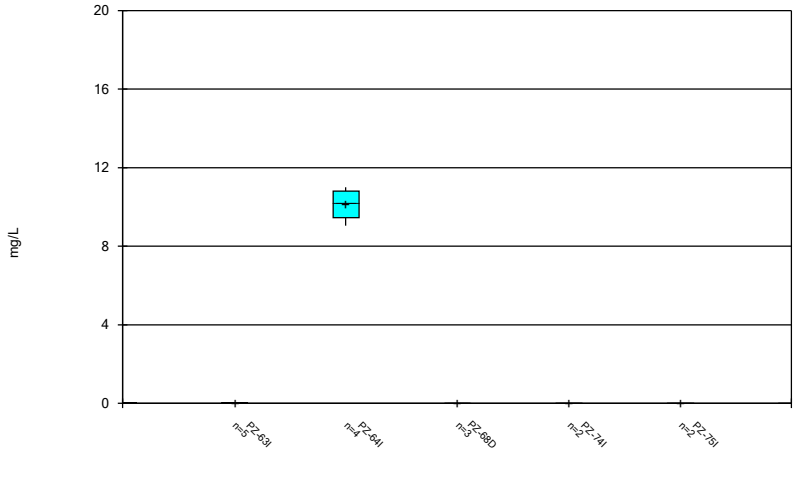
Box & Whiskers Plot



Constituent: Cobalt Analysis Run 4/5/2024 1:41 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

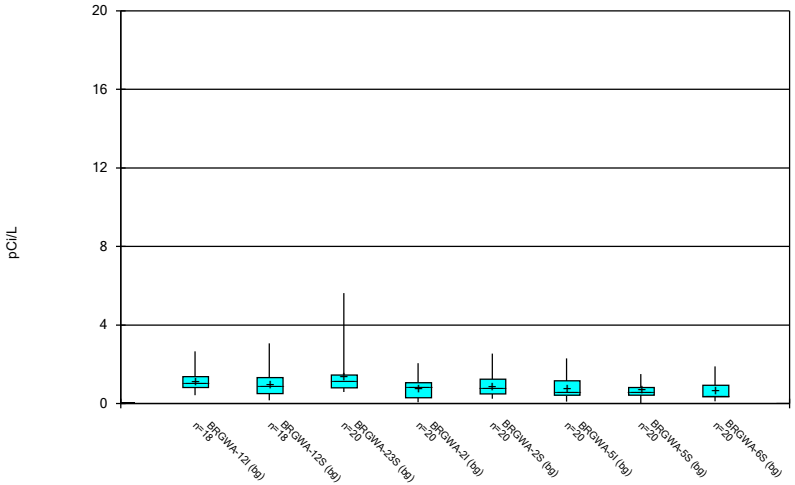
Box & Whiskers Plot



Constituent: Cobalt Analysis Run 4/5/2024 1:41 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

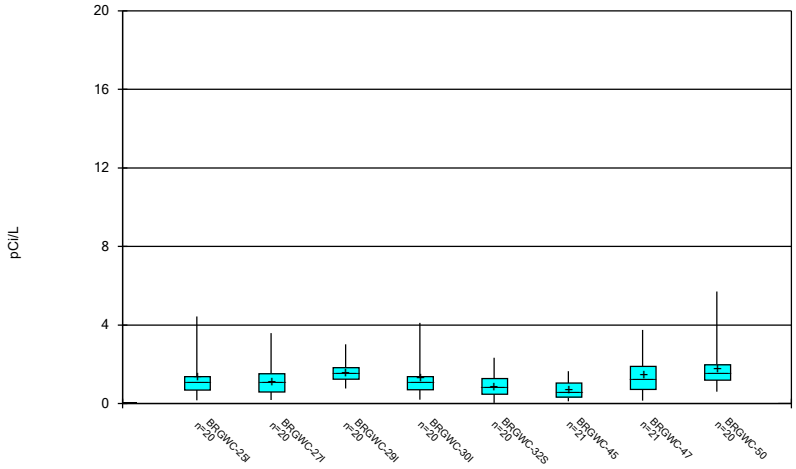
Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 4/5/2024 1:41 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

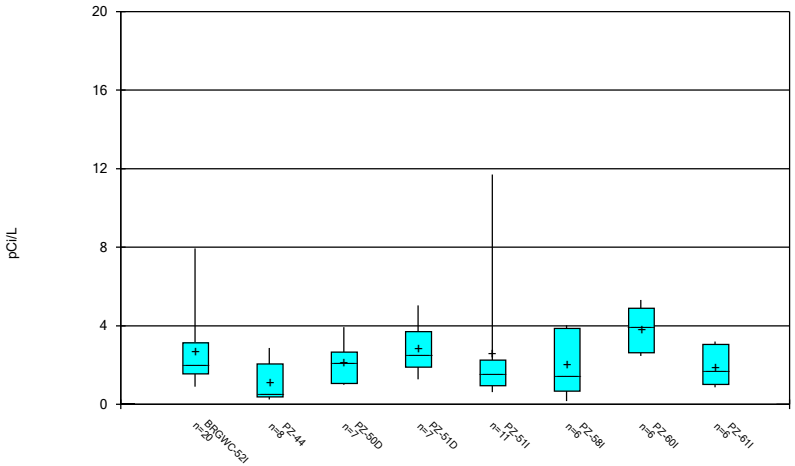
Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 4/5/2024 1:41 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

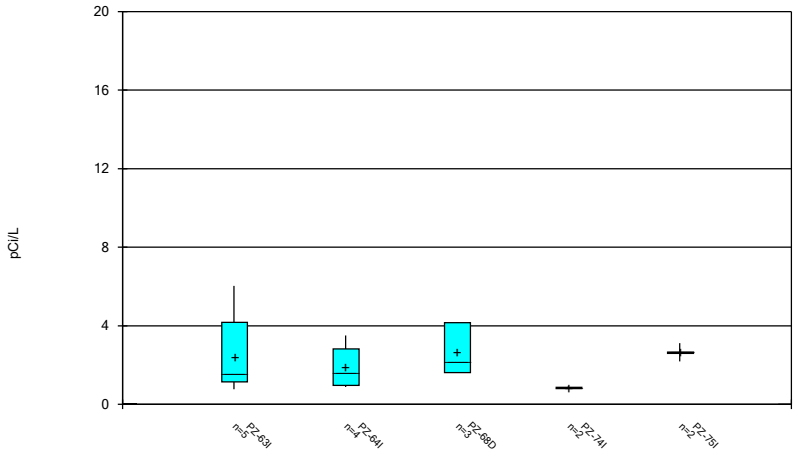
Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 4/5/2024 1:41 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

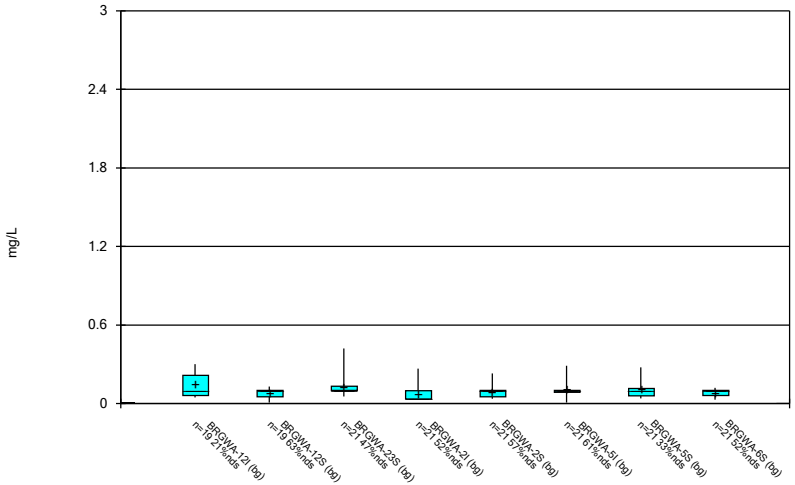
Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 4/5/2024 1:41 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

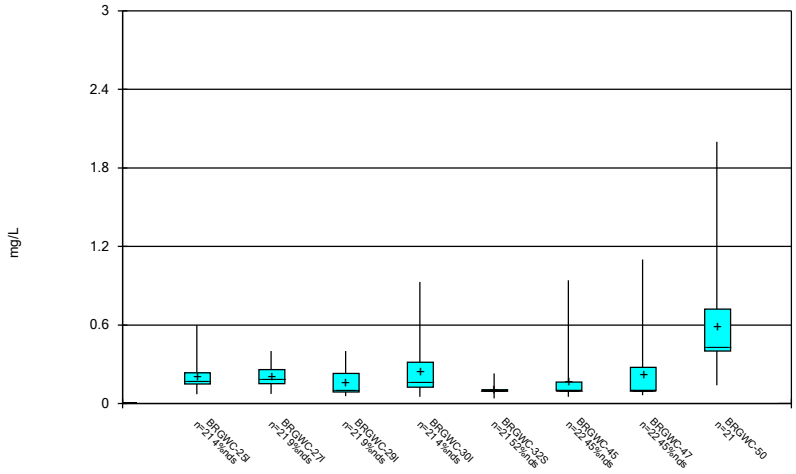
Box & Whiskers Plot



Constituent: Fluoride Analysis Run 4/5/2024 1:41 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

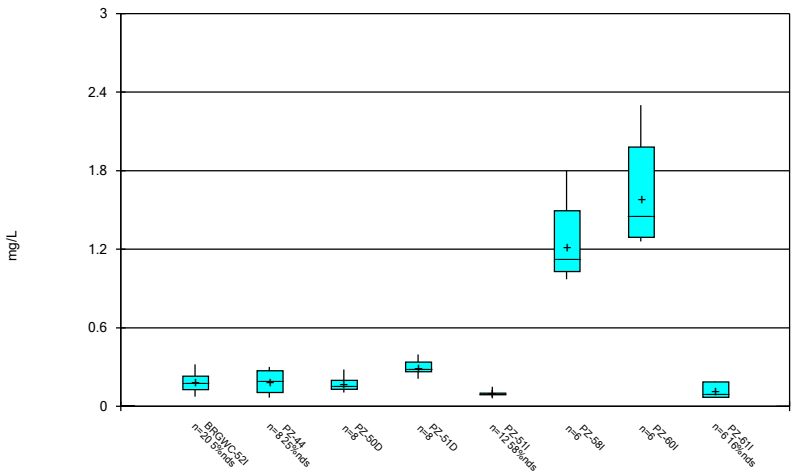
Box & Whiskers Plot



Constituent: Fluoride Analysis Run 4/5/2024 1:41 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Box & Whiskers Plot



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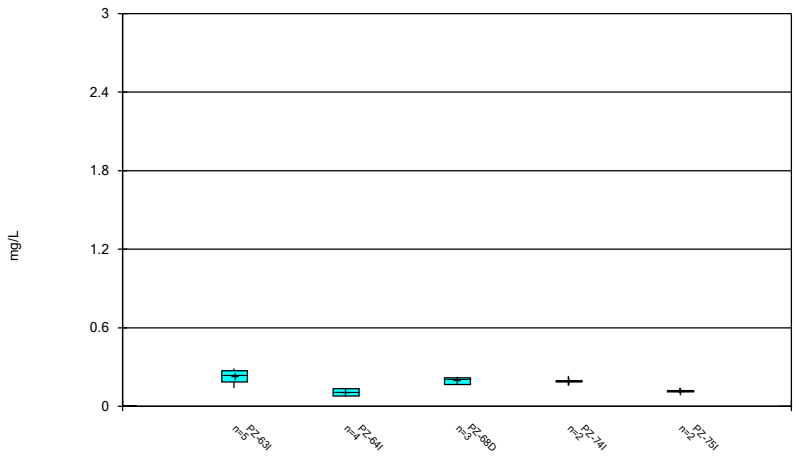
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

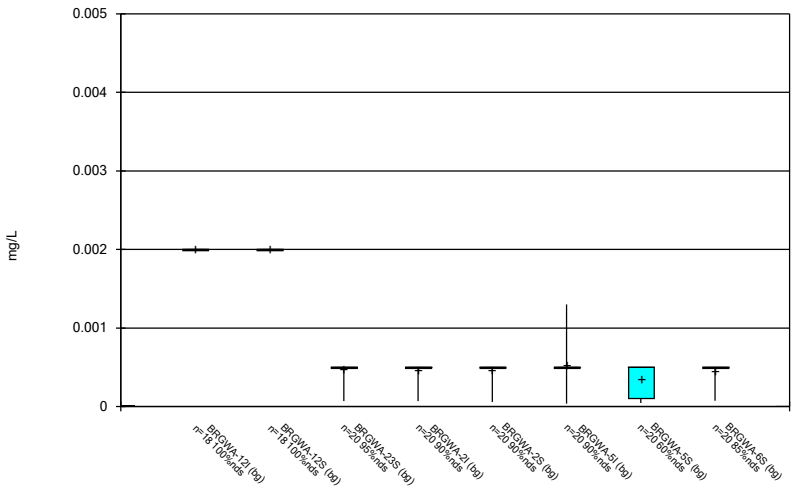
Box & Whiskers Plot



Constituent: Fluoride Analysis Run 4/5/2024 1:41 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

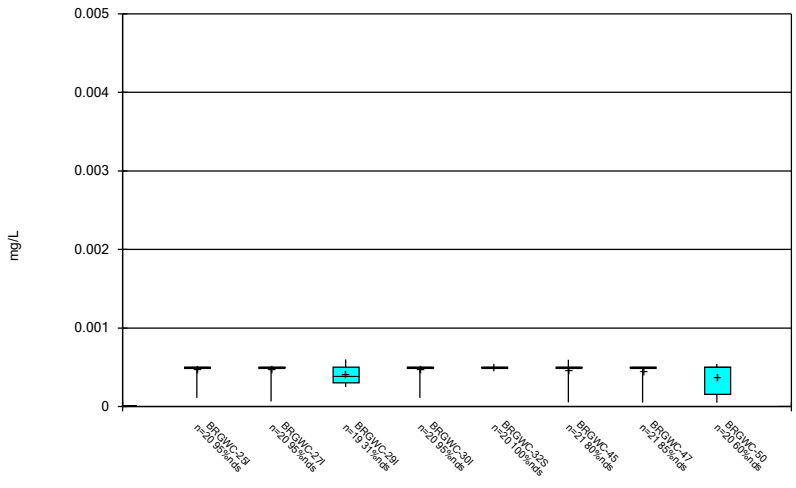
Box & Whiskers Plot



Constituent: Lead Analysis Run 4/5/2024 1:41 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

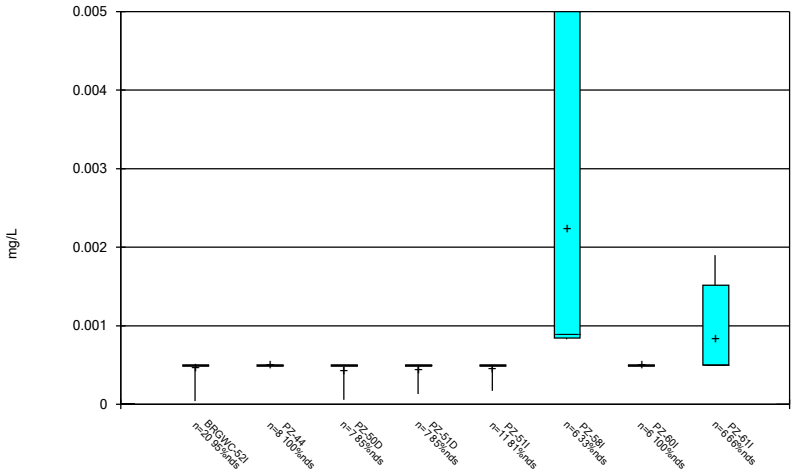
Box & Whiskers Plot



Constituent: Lead Analysis Run 4/5/2024 1:41 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

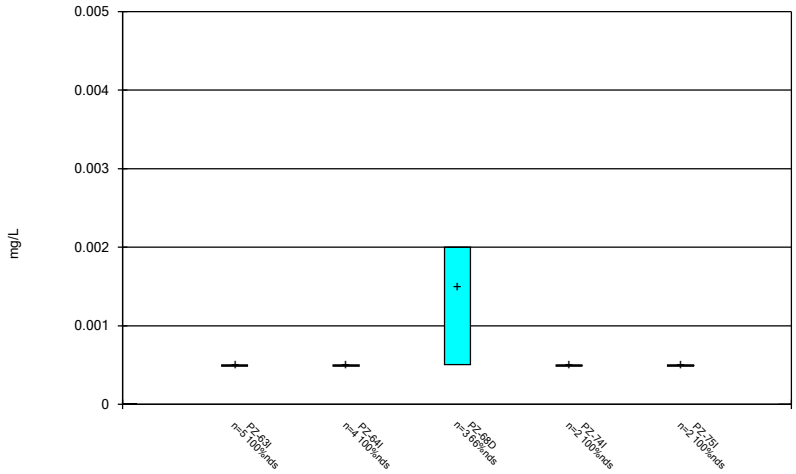
Box & Whiskers Plot



Constituent: Lead Analysis Run 4/5/2024 1:41 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

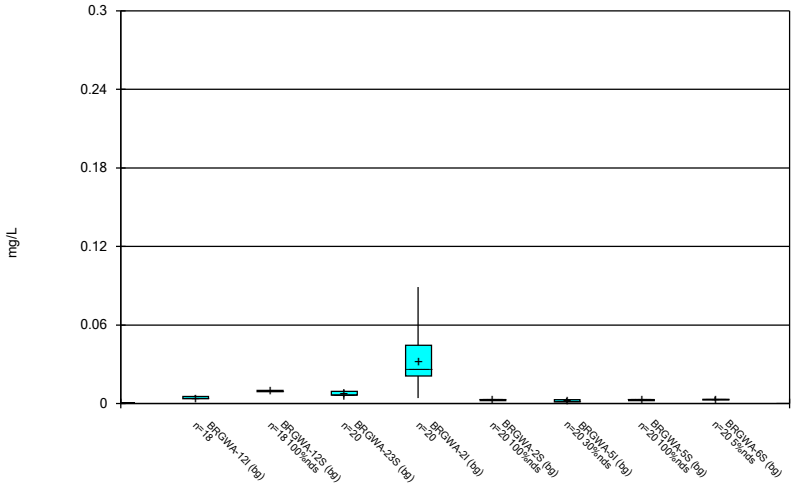
Box & Whiskers Plot



Constituent: Lead Analysis Run 4/5/2024 1:41 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

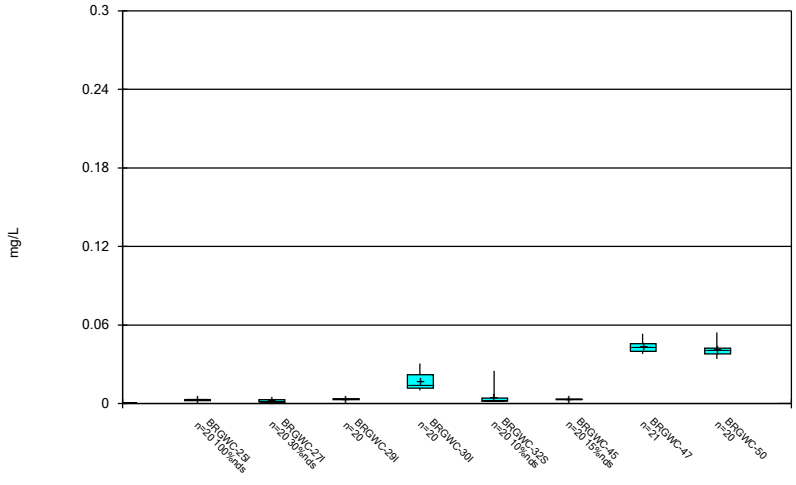
Box & Whiskers Plot



Constituent: Lithium Analysis Run 4/5/2024 1:41 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

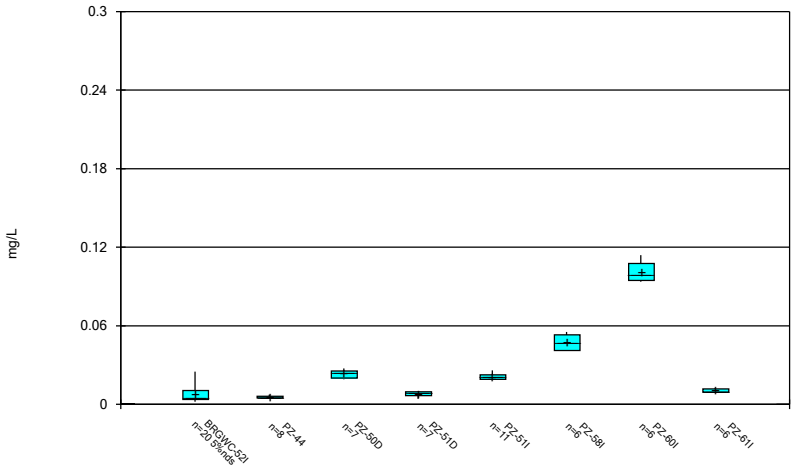
Box & Whiskers Plot



Constituent: Lithium Analysis Run 4/5/2024 1:41 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

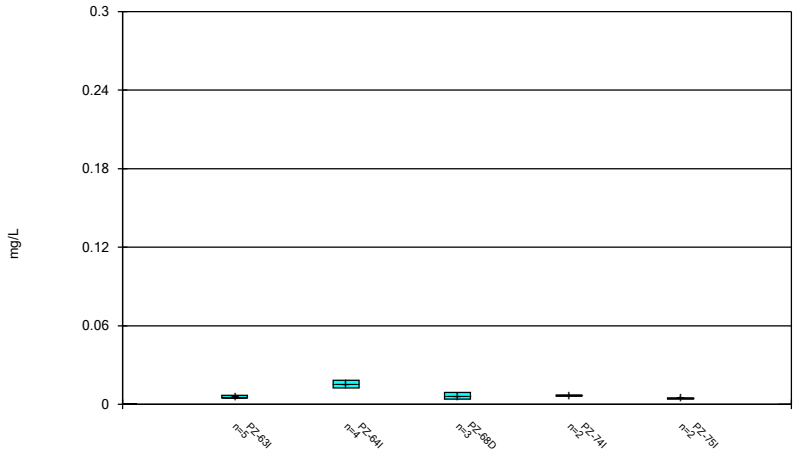
Box & Whiskers Plot



Constituent: Lithium Analysis Run 4/5/2024 1:41 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

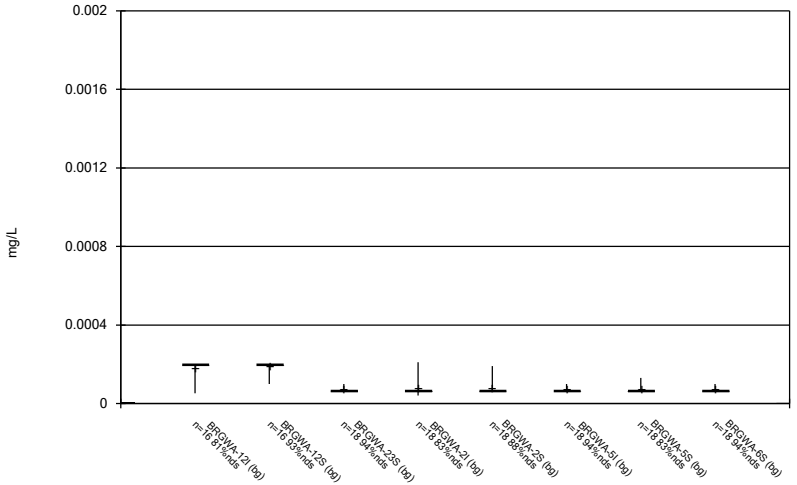
Sanitas™ v.10.0.16 . UG

Box & Whiskers Plot



Constituent: Lithium Analysis Run 4/5/2024 1:41 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

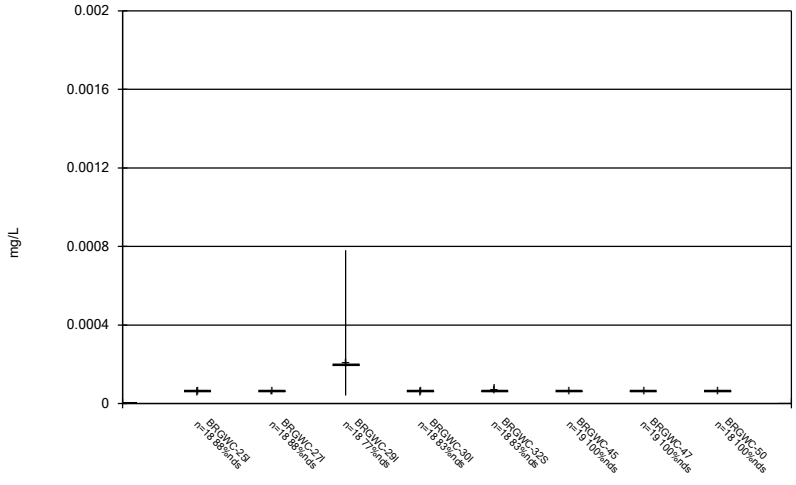
Box & Whiskers Plot



Constituent: Mercury Analysis Run 4/5/2024 1:41 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

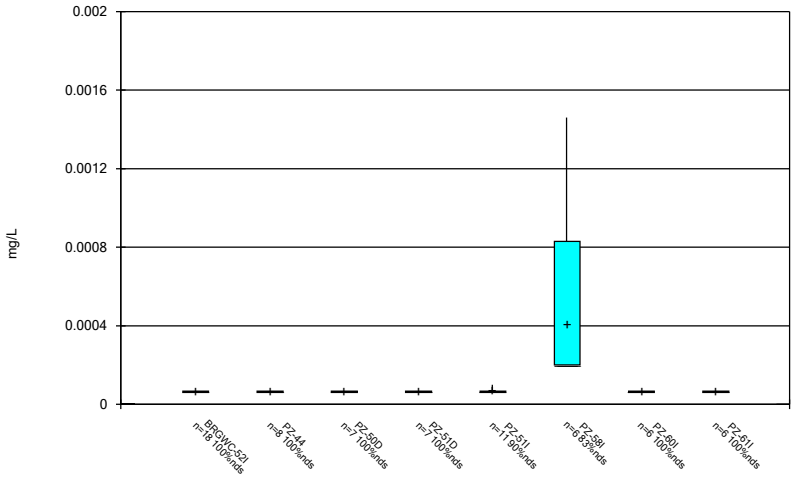
Box & Whiskers Plot



Constituent: Mercury Analysis Run 4/5/2024 1:41 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

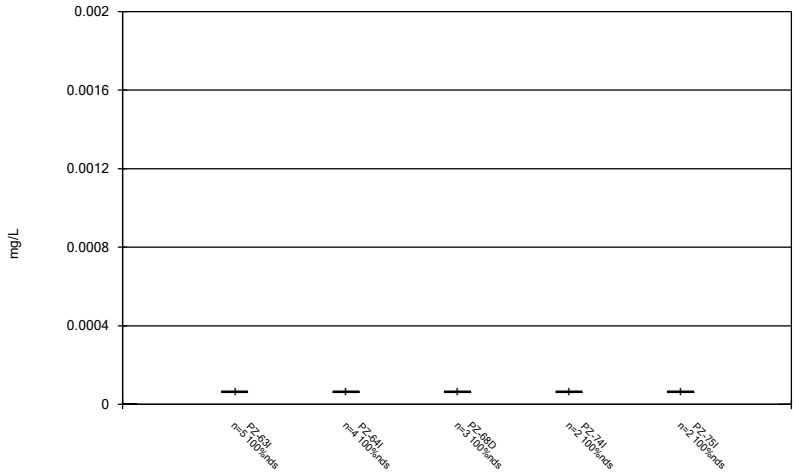
Box & Whiskers Plot



Constituent: Mercury Analysis Run 4/5/2024 1:41 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

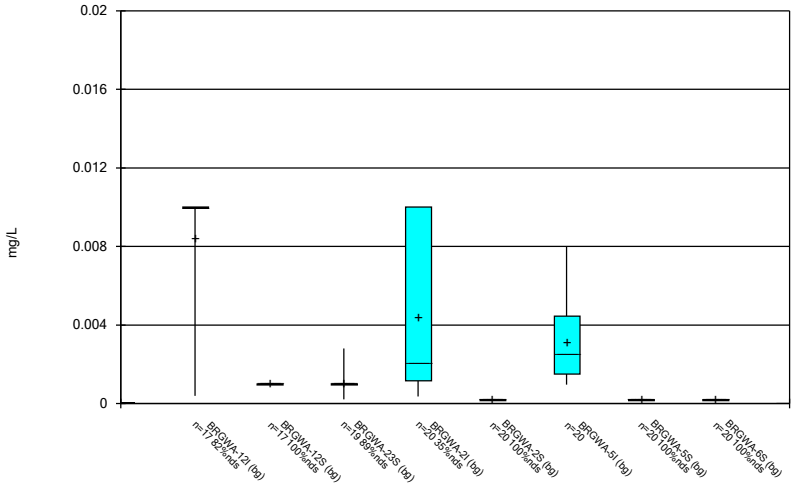
Box & Whiskers Plot



Constituent: Mercury Analysis Run 4/5/2024 1:41 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

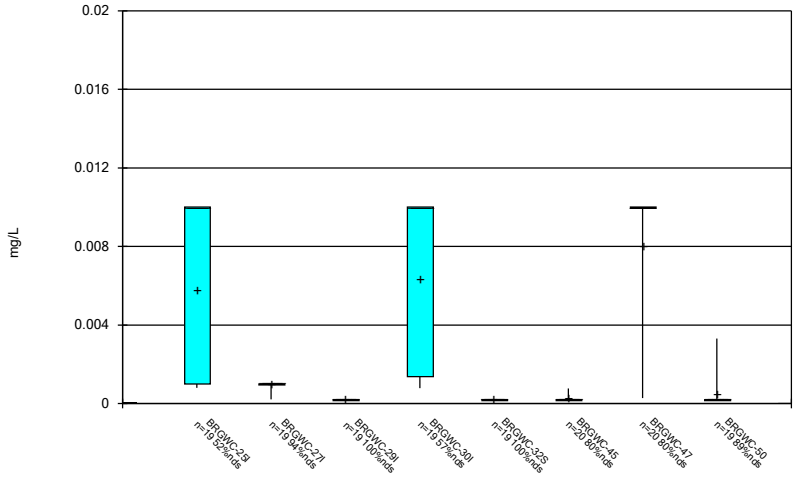
Box & Whiskers Plot



Constituent: Molybdenum Analysis Run 4/5/2024 1:41 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

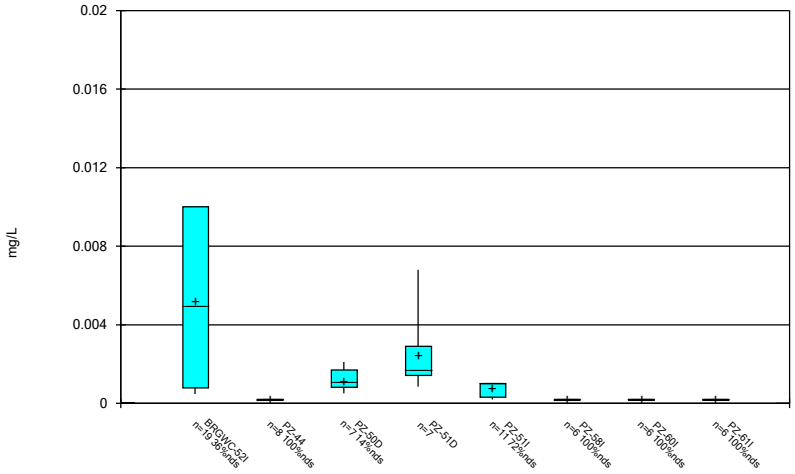
Box & Whiskers Plot



Constituent: Molybdenum Analysis Run 4/5/2024 1:41 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

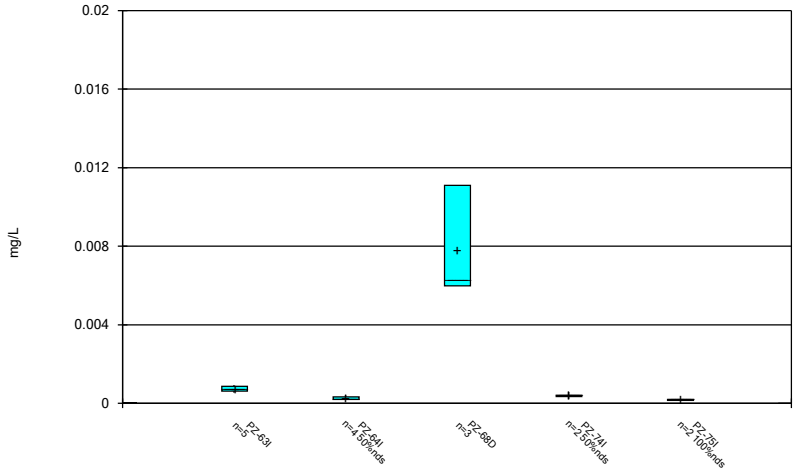
Box & Whiskers Plot



Constituent: Molybdenum Analysis Run 4/5/2024 1:41 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

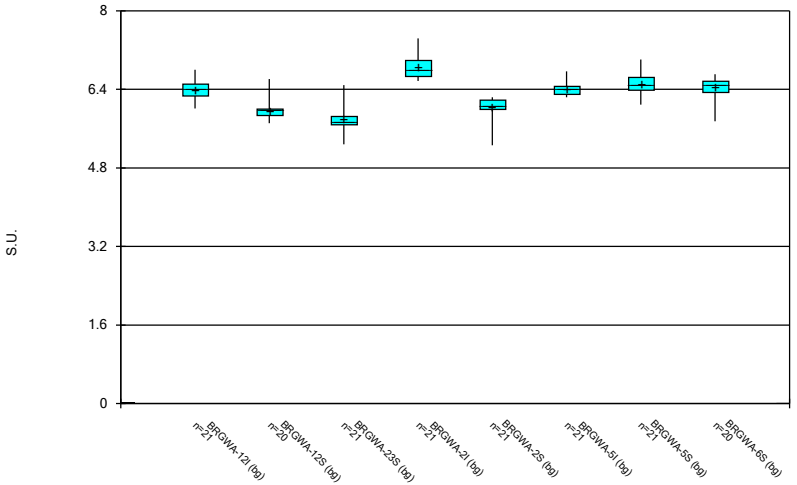
Box & Whiskers Plot



Constituent: Molybdenum Analysis Run 4/5/2024 1:41 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

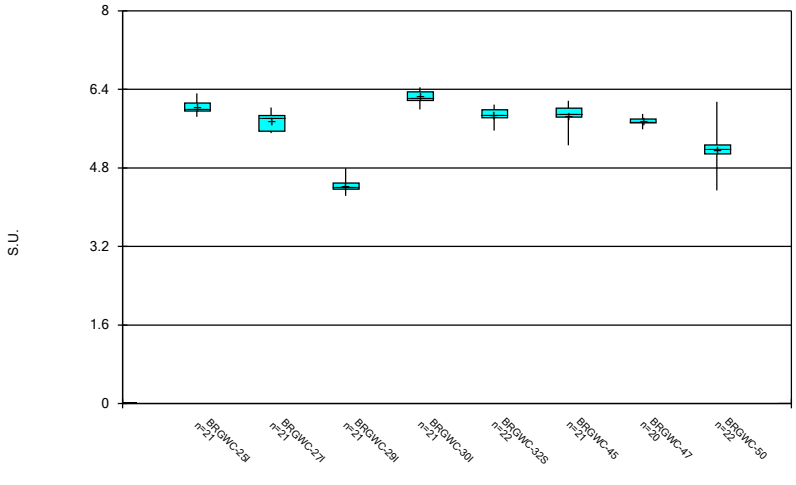
Box & Whiskers Plot



Constituent: pH, Field Analysis Run 4/5/2024 1:41 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

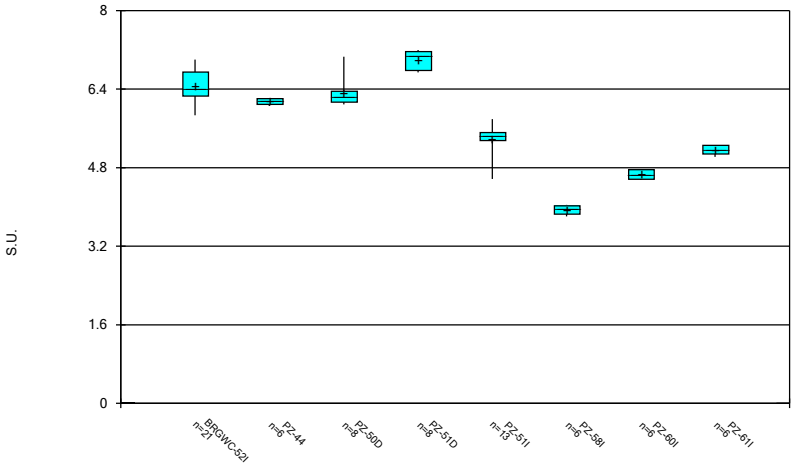
Box & Whiskers Plot



Constituent: pH, Field Analysis Run 4/5/2024 1:41 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Box & Whiskers Plot



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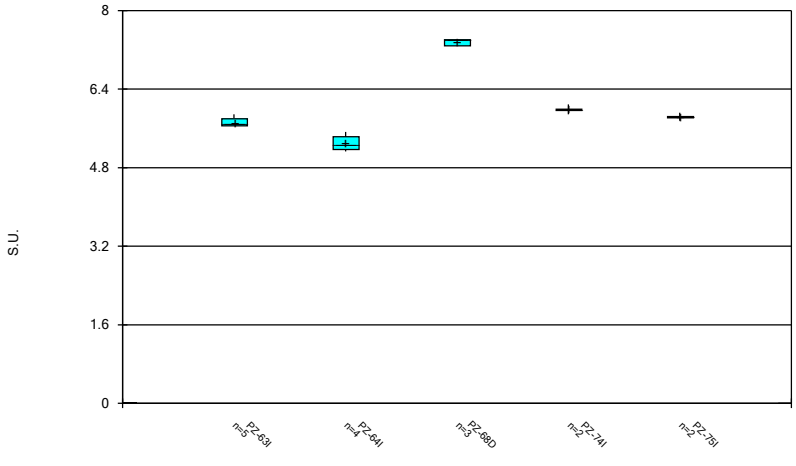
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Box & Whiskers Plot



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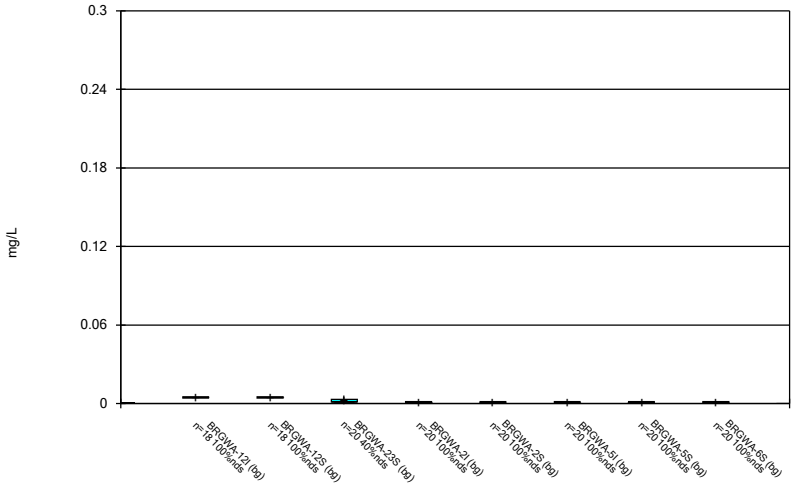
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Box & Whiskers Plot



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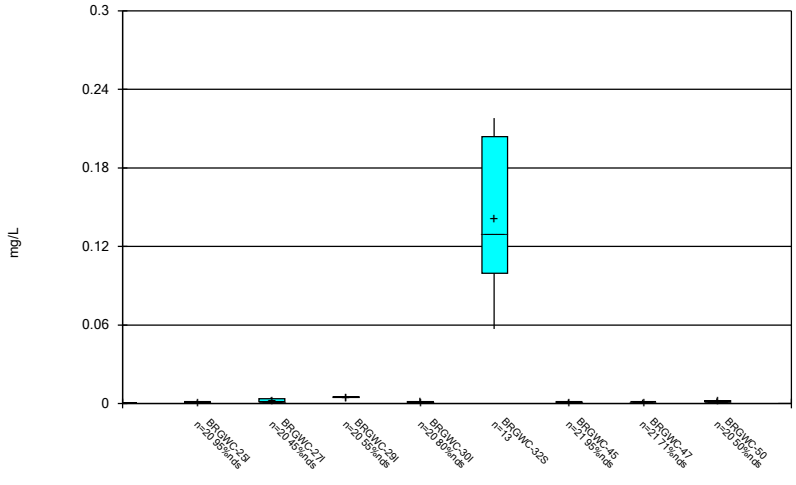
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Box & Whiskers Plot



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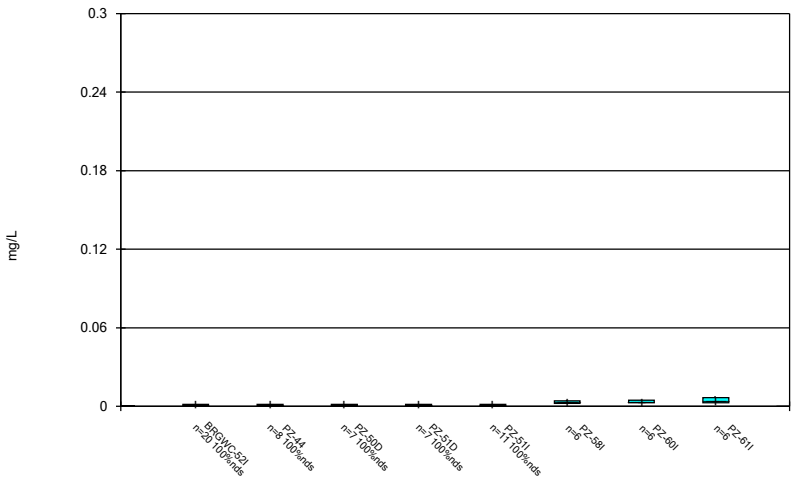
Sanitas™ v.10.0.16 . UG

Box & Whiskers Plot



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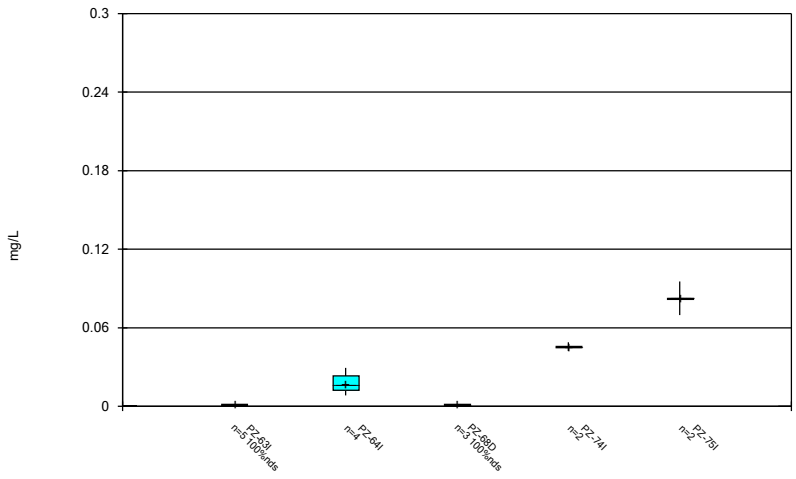
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Box & Whiskers Plot



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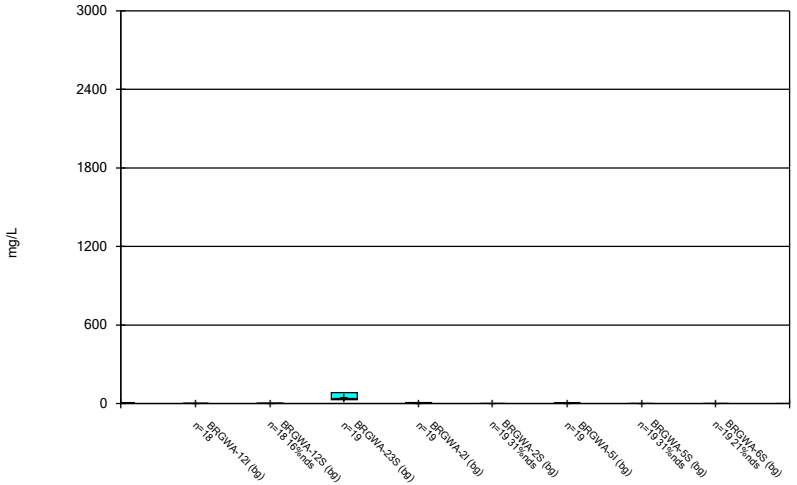
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Box & Whiskers Plot



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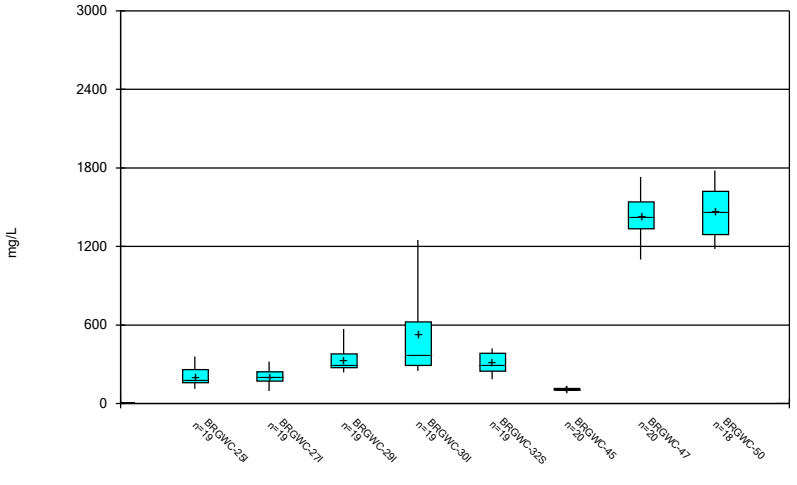
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Box & Whiskers Plot



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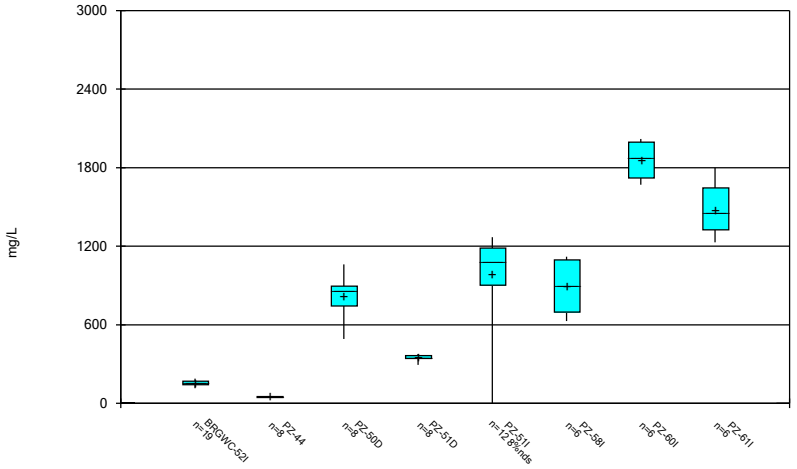
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Box & Whiskers Plot



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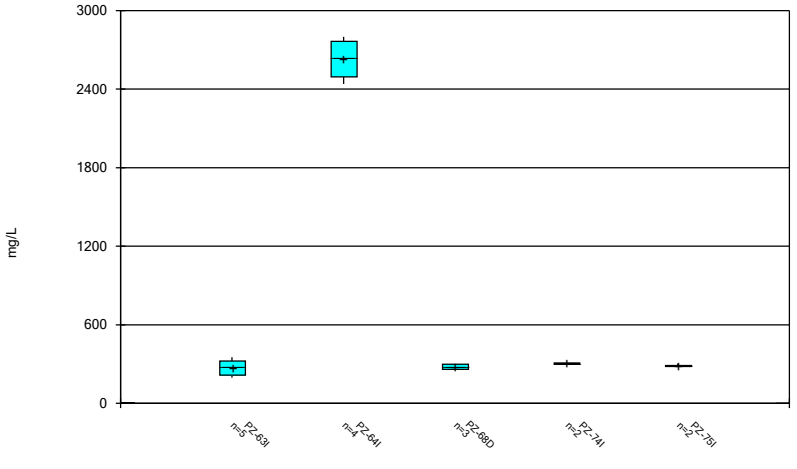
Sanitas™ v.10.0.16 . UG

Box & Whiskers Plot



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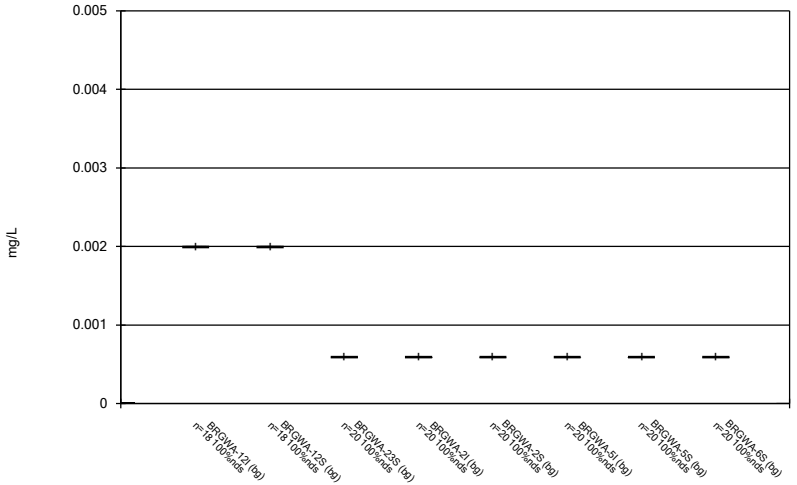
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

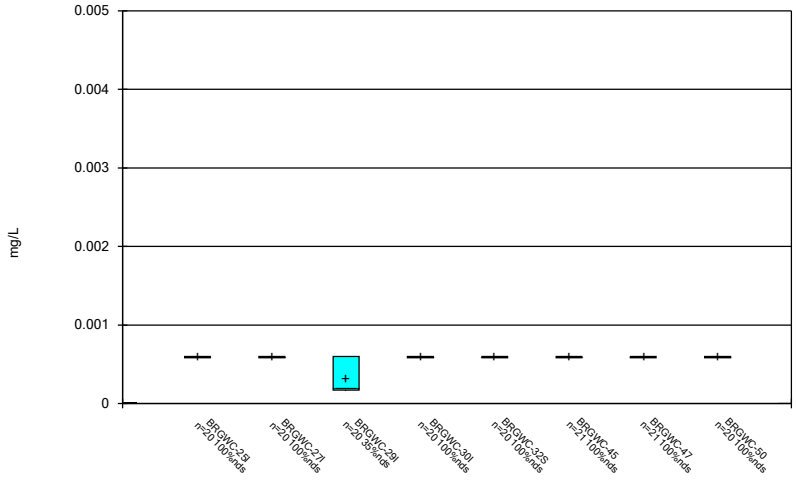
Box & Whiskers Plot



Constituent: Thallium Analysis Run 4/5/2024 1:41 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

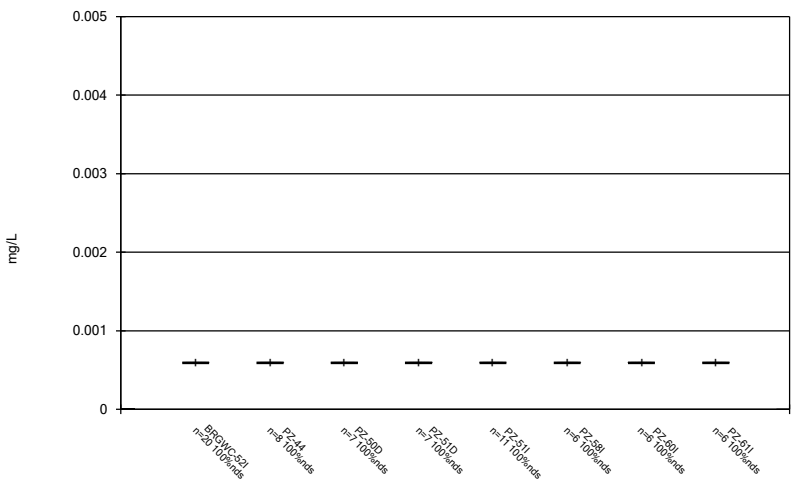
Box & Whiskers Plot



Constituent: Thallium Analysis Run 4/5/2024 1:41 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

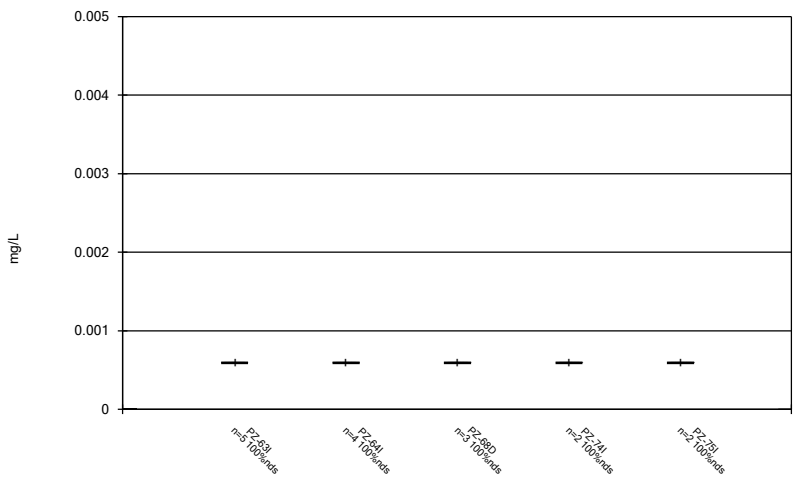
Box & Whiskers Plot



Constituent: Thallium Analysis Run 4/5/2024 1:41 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

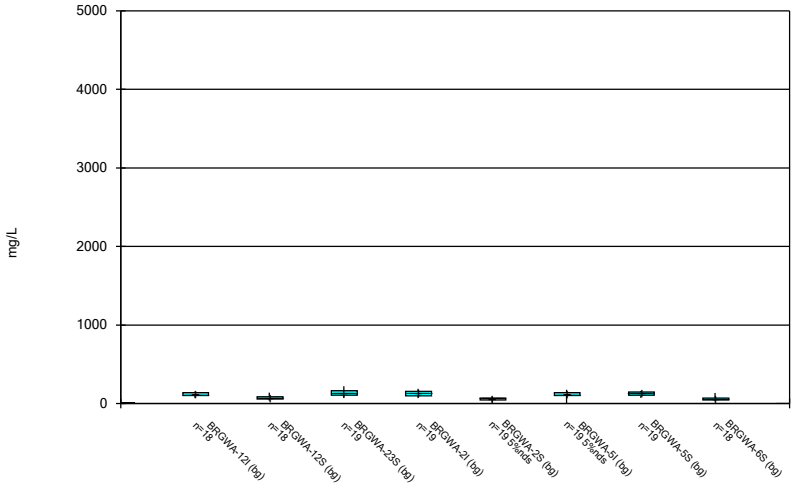
Box & Whiskers Plot



Constituent: Thallium Analysis Run 4/5/2024 1:41 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

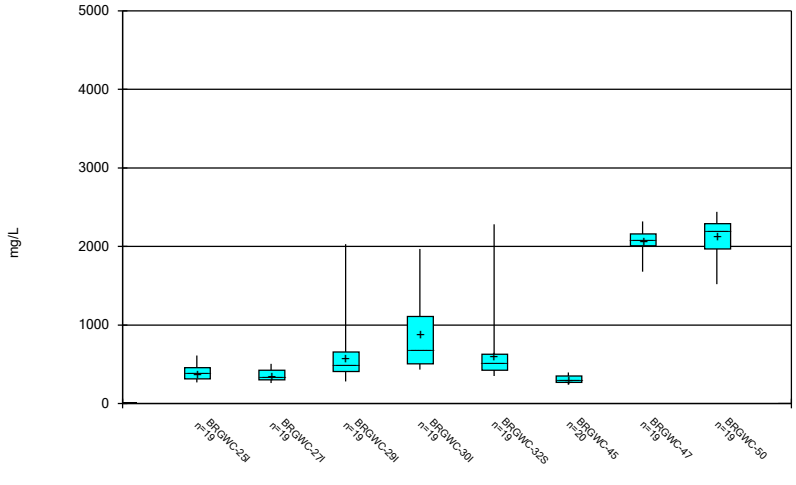
Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 4/5/2024 1:41 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

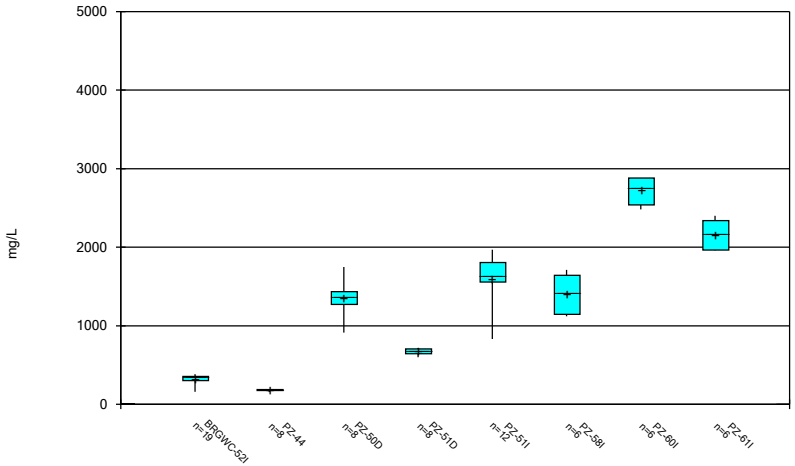
Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 4/5/2024 1:41 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

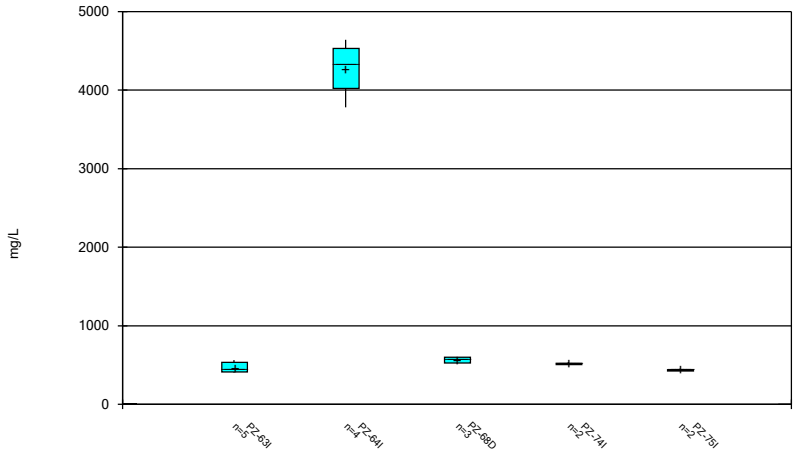
Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 4/5/2024 1:41 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 4/5/2024 1:41 PM View: Pond BCD
Plant Branch Client: Southern Company Data: Plant Branch AP

FIGURE C.

Outlier Summary

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 7/12/2024, 10:13 AM

	BRGWC-52I Calcium (mg/L)	BRGWA-5I Cobalt (mg/L)	BRGWC-52I Fluoride (mg/L)	BRGWC-29I Lead (mg/L)	BRGWC-45 Lithium (mg/L)	BRGWC-50 Sulfate (mg/L)	BRGWA-6S Total Dissolved Solids (mg/L)	BRGWC-47 Total Dissolved Solids (mg/L)
9/1/2016						299 (o)		
11/16/2016		<0.01 (o)						
2/13/2018		<0.01 (o)						
2/14/2018				<0.005 (o)				
6/27/2018							31 (OX)	
7/31/2018					<0.25 (o)			
8/10/2018	410 (O)		1.6 (O)					
1/16/2019					589 (O)			

FIGURE D.

Appendix III - Interwell Prediction Limits - Significant Results

Plant Branch Data: Plant Branch AP Printed 4/3/2024, 1:41 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	BRGWC-25I	0.068	n/a	2/14/2024	1.61	Yes	148	n/a	n/a	53.38	n/a	n/a	0.00009026	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-27I	0.068	n/a	2/14/2024	1.17	Yes	148	n/a	n/a	53.38	n/a	n/a	0.00009026	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-29I	0.068	n/a	2/14/2024	1.11	Yes	148	n/a	n/a	53.38	n/a	n/a	0.00009026	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-30I	0.068	n/a	2/12/2024	2.36	Yes	148	n/a	n/a	53.38	n/a	n/a	0.00009026	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-32S	0.068	n/a	2/12/2024	1.23	Yes	148	n/a	n/a	53.38	n/a	n/a	0.00009026	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-47	0.068	n/a	2/12/2024	0.618	Yes	148	n/a	n/a	53.38	n/a	n/a	0.00009026	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-50	0.068	n/a	2/16/2024	0.389	Yes	148	n/a	n/a	53.38	n/a	n/a	0.00009026	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-52I	0.068	n/a	2/16/2024	1.61	Yes	148	n/a	n/a	53.38	n/a	n/a	0.00009026	NP Inter (NDs) 1 of 2
Calcium (mg/L)	BRGWC-25I	24	n/a	2/14/2024	67.4	Yes	150	n/a	n/a	4	n/a	n/a	0.00008795	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-27I	24	n/a	2/14/2024	60	Yes	150	n/a	n/a	4	n/a	n/a	0.00008795	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-29I	24	n/a	2/14/2024	89.3	Yes	150	n/a	n/a	4	n/a	n/a	0.00008795	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-30I	24	n/a	2/12/2024	441	Yes	150	n/a	n/a	4	n/a	n/a	0.00008795	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-32S	24	n/a	2/12/2024	47.4	Yes	150	n/a	n/a	4	n/a	n/a	0.00008795	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-45	24	n/a	2/14/2024	32.8	Yes	150	n/a	n/a	4	n/a	n/a	0.00008795	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-47	24	n/a	2/12/2024	340	Yes	150	n/a	n/a	4	n/a	n/a	0.00008795	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-50	24	n/a	2/16/2024	224	Yes	150	n/a	n/a	4	n/a	n/a	0.00008795	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-52I	24	n/a	2/14/2024	36.4	Yes	150	n/a	n/a	4	n/a	n/a	0.00008795	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-25I	5.8	n/a	2/1/2024	8.73	Yes	150	n/a	n/a	0	n/a	n/a	0.00008795	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-29I	5.8	n/a	2/1/2024	7.94	Yes	150	n/a	n/a	0	n/a	n/a	0.00008795	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-45	5.8	n/a	2/9/2024	17.2	Yes	150	n/a	n/a	0	n/a	n/a	0.00008795	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-50	5.8	n/a	2/9/2024	15.4	Yes	150	n/a	n/a	0	n/a	n/a	0.00008795	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-52I	5.8	n/a	2/2/2024	6.3	Yes	150	n/a	n/a	0	n/a	n/a	0.00008795	NP Inter (normality) 1 of 2
pH, Field (S.U.)	BRGWC-29I	7.031	5.571	1/31/2024	4.37	Yes	166	6.301	0.3806	0	None	No	0.0004179	Param Inter 1 of 2
pH, Field (S.U.)	BRGWC-50	7.031	5.571	2/1/2024	5.14	Yes	166	6.301	0.3806	0	None	No	0.0004179	Param Inter 1 of 2
Sulfate (mg/L)	BRGWC-25I	89	n/a	2/2/2024	169	Yes	150	n/a	n/a	12.67	n/a	n/a	0.00008795	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-27I	89	n/a	2/3/2024	155	Yes	150	n/a	n/a	12.67	n/a	n/a	0.00008795	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-29I	89	n/a	2/2/2024	328	Yes	150	n/a	n/a	12.67	n/a	n/a	0.00008795	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-30I	89	n/a	2/1/2024	1210	Yes	150	n/a	n/a	12.67	n/a	n/a	0.00008795	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-32S	89	n/a	2/1/2024	246	Yes	150	n/a	n/a	12.67	n/a	n/a	0.00008795	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-45	89	n/a	2/9/2024	110	Yes	150	n/a	n/a	12.67	n/a	n/a	0.00008795	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-47	89	n/a	2/1/2024	1360	Yes	150	n/a	n/a	12.67	n/a	n/a	0.00008795	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-50	89	n/a	2/9/2024	1310	Yes	150	n/a	n/a	12.67	n/a	n/a	0.00008795	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-52I	89	n/a	2/2/2024	145	Yes	150	n/a	n/a	12.67	n/a	n/a	0.00008795	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-25I	185	n/a	2/7/2024	391	Yes	149	102.9	42.77	1.342	None	No	0.0008358	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-27I	185	n/a	2/7/2024	299	Yes	149	102.9	42.77	1.342	None	No	0.0008358	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-29I	185	n/a	2/7/2024	535	Yes	149	102.9	42.77	1.342	None	No	0.0008358	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-30I	185	n/a	2/6/2024	1970	Yes	149	102.9	42.77	1.342	None	No	0.0008358	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-32S	185	n/a	2/6/2024	418	Yes	149	102.9	42.77	1.342	None	No	0.0008358	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-45	185	n/a	2/8/2024	255	Yes	149	102.9	42.77	1.342	None	No	0.0008358	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-47	185	n/a	2/6/2024	2160	Yes	149	102.9	42.77	1.342	None	No	0.0008358	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-50	185	n/a	2/8/2024	1970	Yes	149	102.9	42.77	1.342	None	No	0.0008358	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-52I	185	n/a	2/8/2024	303	Yes	149	102.9	42.77	1.342	None	No	0.0008358	Param Inter 1 of 2

Appendix III - Interwell Prediction Limits - All Results

Plant Branch Data: Plant Branch AP Printed 4/3/2024, 1:41 PM

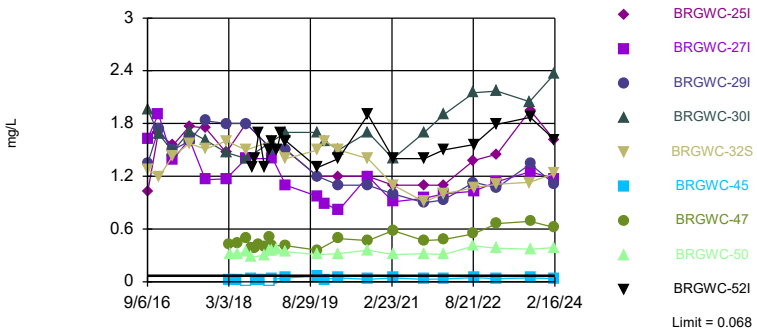
Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	**BRGWC-25I**	**0.068**	**n/a**	**2/14/2024**	**1.61**	**Yes**	**148**	**n/a**	**n/a**	**53.38**	**n/a**	**n/a**	**0.00009026**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**BRGWC-27I**	**0.068**	**n/a**	**2/14/2024**	**1.17**	**Yes**	**148**	**n/a**	**n/a**	**53.38**	**n/a**	**n/a**	**0.00009026**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**BRGWC-29I**	**0.068**	**n/a**	**2/14/2024**	**1.11**	**Yes**	**148**	**n/a**	**n/a**	**53.38**	**n/a**	**n/a**	**0.00009026**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**BRGWC-30I**	**0.068**	**n/a**	**2/12/2024**	**2.36**	**Yes**	**148**	**n/a**	**n/a**	**53.38**	**n/a**	**n/a**	**0.00009026**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**BRGWC-32S**	**0.068**	**n/a**	**2/12/2024**	**1.23**	**Yes**	**148**	**n/a**	**n/a**	**53.38**	**n/a**	**n/a**	**0.00009026**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	BRGWC-45	0.068	n/a	2/14/2024	0.0355	No	148	n/a	n/a	53.38	n/a	n/a	0.00009026	NP Inter (NDs) 1 of 2
Boron (mg/L)	**BRGWC-47**	**0.068**	**n/a**	**2/12/2024**	**0.618**	**Yes**	**148**	**n/a**	**n/a**	**53.38**	**n/a**	**n/a**	**0.00009026**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**BRGWC-50**	**0.068**	**n/a**	**2/16/2024**	**0.389**	**Yes**	**148**	**n/a**	**n/a**	**53.38**	**n/a**	**n/a**	**0.00009026**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**BRGWC-52I**	**0.068**	**n/a**	**2/16/2024**	**1.61**	**Yes**	**148**	**n/a**	**n/a**	**53.38**	**n/a**	**n/a**	**0.00009026**	**NP Inter (NDs) 1 of 2**
Calcium (mg/L)	**BRGWC-25I**	**24**	**n/a**	**2/14/2024**	**67.4**	**Yes**	**150**	**n/a**	**n/a**	**4**	**n/a**	**n/a**	**0.00008795**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**BRGWC-27I**	**24**	**n/a**	**2/14/2024**	**60**	**Yes**	**150**	**n/a**	**n/a**	**4**	**n/a**	**n/a**	**0.00008795**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**BRGWC-29I**	**24**	**n/a**	**2/14/2024**	**89.3**	**Yes**	**150**	**n/a**	**n/a**	**4**	**n/a**	**n/a**	**0.00008795**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**BRGWC-30I**	**24**	**n/a**	**2/12/2024**	**441**	**Yes**	**150**	**n/a**	**n/a**	**4**	**n/a**	**n/a**	**0.00008795**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**BRGWC-32S**	**24**	**n/a**	**2/12/2024**	**47.4**	**Yes**	**150**	**n/a**	**n/a**	**4**	**n/a**	**n/a**	**0.00008795**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**BRGWC-45**	**24**	**n/a**	**2/14/2024**	**32.8**	**Yes**	**150**	**n/a**	**n/a**	**4**	**n/a**	**n/a**	**0.00008795**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**BRGWC-47**	**24**	**n/a**	**2/12/2024**	**340**	**Yes**	**150**	**n/a**	**n/a**	**4**	**n/a**	**n/a**	**0.00008795**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**BRGWC-50**	**24**	**n/a**	**2/16/2024**	**224**	**Yes**	**150**	**n/a**	**n/a**	**4**	**n/a**	**n/a**	**0.00008795**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**BRGWC-52I**	**24**	**n/a**	**2/14/2024**	**36.4**	**Yes**	**150**	**n/a**	**n/a**	**4**	**n/a**	**n/a**	**0.00008795**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**BRGWC-25I**	**5.8**	**n/a**	**2/1/2024**	**8.73**	**Yes**	**150**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00008795**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	BRGWC-27I	5.8	n/a	2/1/2024	4.05	No	150	n/a	n/a	0	n/a	n/a	0.00008795	NP Inter (normality) 1 of 2
Chloride (mg/L)	**BRGWC-29I**	**5.8**	**n/a**	**2/1/2024**	**7.94**	**Yes**	**150**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00008795**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	BRGWC-30I	5.8	n/a	2/1/2024	3.52	No	150	n/a	n/a	0	n/a	n/a	0.00008795	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-32S	5.8	n/a	1/31/2024	4.1	No	150	n/a	n/a	0	n/a	n/a	0.00008795	NP Inter (normality) 1 of 2
Chloride (mg/L)	**BRGWC-45**	**5.8**	**n/a**	**2/9/2024**	**17.2**	**Yes**	**150**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00008795**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	BRGWC-47	5.8	n/a	2/1/2024	4.74	No	150	n/a	n/a	0	n/a	n/a	0.00008795	NP Inter (normality) 1 of 2
Chloride (mg/L)	**BRGWC-50**	**5.8**	**n/a**	**2/9/2024**	**15.4**	**Yes**	**150**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00008795**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**BRGWC-52I**	**5.8**	**n/a**	**2/2/2024**	**6.3**	**Yes**	**150**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00008795**	**NP Inter (normality) 1 of 2**
Fluoride (mg/L)	BRGWC-25I	0.42	n/a	2/1/2024	0.221	No	164	n/a	n/a	48.78	n/a	n/a	0.00007326	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-27I	0.42	n/a	2/1/2024	0.222	No	164	n/a	n/a	48.78	n/a	n/a	0.00007326	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-29I	0.42	n/a	2/1/2024	0.0968J	No	164	n/a	n/a	48.78	n/a	n/a	0.00007326	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-30I	0.42	n/a	2/1/2024	0.169	No	164	n/a	n/a	48.78	n/a	n/a	0.00007326	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-32S	0.42	n/a	1/31/2024	0.207	No	164	n/a	n/a	48.78	n/a	n/a	0.00007326	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-45	0.42	n/a	2/2/2024	0.126	No	164	n/a	n/a	48.78	n/a	n/a	0.00007326	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-47	0.42	n/a	2/1/2024	0.11	No	164	n/a	n/a	48.78	n/a	n/a	0.00007326	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-50	0.42	n/a	2/2/2024	0.416	No	164	n/a	n/a	48.78	n/a	n/a	0.00007326	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-52I	0.42	n/a	2/2/2024	0.215	No	164	n/a	n/a	48.78	n/a	n/a	0.00007326	NP Inter (normality) 1 of 2
pH, Field (S.U.)	BRGWC-25I	7.031	5.571	1/31/2024	6.31	No	166	6.301	0.3806	0	None	No	0.0004179	Param Inter 1 of 2
pH, Field (S.U.)	BRGWC-27I	7.031	5.571	1/31/2024	5.83	No	166	6.301	0.3806	0	None	No	0.0004179	Param Inter 1 of 2
pH, Field (S.U.)	**BRGWC-29I**	**7.031**	**5.571**	**1/31/2024**	**4.37**	**Yes**	**166**	**6.301**	**0.3806**	**0**	**None**	**No**	**0.0004179**	**Param Inter 1 of 2**
pH, Field (S.U.)	BRGWC-30I	7.031	5.571	1/30/2024	6.39	No	166	6.301	0.3806	0	None	No	0.0004179	Param Inter 1 of 2
pH, Field (S.U.)	BRGWC-32S	7.031	5.571	1/30/2024	5.98	No	166	6.301	0.3806	0	None	No	0.0004179	Param Inter 1 of 2
pH, Field (S.U.)	BRGWC-45	7.031	5.571	2/1/2024	5.85	No	166	6.301	0.3806	0	None	No	0.0004179	Param Inter 1 of 2
pH, Field (S.U.)	BRGWC-47	7.031	5.571	1/30/2024	5.73	No	166	6.301	0.3806	0	None	No	0.0004179	Param Inter 1 of 2
pH, Field (S.U.)	**BRGWC-50**	**7.031**	**5.571**	**2/1/2024**	**5.14**	**Yes**	**166**	**6.301**	**0.3806**	**0**	**None**	**No**	**0.0004179**	**Param Inter 1 of 2**
pH, Field (S.U.)	BRGWC-52I	7.031	5.571	2/1/2024	6.3	No	166	6.301	0.3806	0	None	No	0.0004179	Param Inter 1 of 2
Sulfate (mg/L)	**BRGWC-25I**	**89**	**n/a**	**2/2/2024**	**169**	**Yes**	**150**	**n/a**	**n/a**	**12.67**	**n/a**	**n/a**	**0.00008795**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**BRGWC-27I**	**89**	**n/a**	**2/3/2024**	**155**	**Yes**	**150**	**n/a**	**n/a**	**12.67**	**n/a**	**n/a**	**0.00008795**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**BRGWC-29I**	**89**	**n/a**	**2/2/2024**	**328**	**Yes**	**150**	**n/a**	**n/a**	**12.67**	**n/a**	**n/a**	**0.00008795**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**BRGWC-30I**	**89**	**n/a**	**2/1/2024**	**1210**	**Yes**	**150**	**n/a**	**n/a**	**12.67**	**n/a**	**n/a**	**0.00008795**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**BRGWC-32S**	**89**	**n/a**	**2/1/2024**	**246**	**Yes**	**150**	**n/a**	**n/a**	**12.67**	**n/a**	**n/a**	**0.00008795**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**BRGWC-45**	**89**	**n/a**	**2/9/2024**	**110**	**Yes**	**150**	**n/a**	**n/a**	**12.67**	**n/a**	**n/a**	**0.00008795**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**BRGWC-47**	**89**	**n/a**	**2/1/2024**	**1360**	**Yes**	**150**	**n/a**	**n/a**	**12.67**	**n/a**	**n/a**	**0.00008795**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**BRGWC-50**	**89**	**n/a**	**2/9/2024**	**1310**	**Yes**	**150**	**n/a**	**n/a**	**12.67**	**n/a**	**n/a**	**0.00008795**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**BRGWC-52I**	**89**	**n/a**	**2/2/2024**	**145**	**Yes**	**150**	**n/a**	**n/a**	**12.67**	**n/a**	**n/a**	**0.00008795**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids (mg/L)	**BRGWC-25I**	**185**	**n/a**	**2/7/2024**	**391**	**Yes**	**149**	**102.9**	**42.77**	**1.342**	**None**	**No**	**0.0008358**	**Param Inter 1 of 2**
Total Dissolved Solids (mg/L)	**BRGWC-27I**	**185**	**n/a**	**2/7/2024**	**299**	**Yes**	**149**	**102.9**	**42.77**	**1.342**	**None**	**No**	**0.0008358**	**Param Inter 1 of 2**
Total Dissolved Solids (mg/L)	**BRGWC-29I**	**185**	**n/a**	**2/7/2024**	**535**	**Yes**	**149**	**102.9**	**42.77**	**1.342**	**None**	**No**	**0.0008358**	**Param Inter 1 of 2**
Total Dissolved Solids (mg/L)	**BRGWC-30I**	**185**	**n/a**	**2/6/2024**	**1970**	**Yes**	**149**	**102.9**	**42.77**	**1.342**	**None**	**No**	**0.0008358**	**Param Inter 1 of 2**
Total Dissolved Solids (mg/L)	**BRGWC-32S**	**185**	**n/a**	**2/6/2024**	**418**	**Yes**	**149**	**102.9**	**42.77**	**1.342**	**None**	**No**	**0.0008358**	**Param Inter 1 of 2**
Total Dissolved Solids (mg/L)	**BRGWC-45**	**185**	**n/a**	**2/8/2024**	**255**	**Yes**	**149**	**102.9**	**42.77**	**1.342**	**None**	**No**	**0.0008358**	**Param Inter 1 of 2**
Total Dissolved Solids (mg/L)	**BRGWC-47**	**185**	**n/a**	**2/6/2024**	**2160**	**Yes**	**149**	**102.9**	**42.77**	**1.342**	**None**	**No**	**0.0008358**	**Param Inter 1 of 2**
Total Dissolved Solids (mg/L)	**BRGWC-50**	**185**	**n/a**	**2/8/2024**	**1970**	**Yes**	**149**	**102.9**	**42.77**	**1.342**	**None**	**No**	**0.0008358**	**Param Inter 1 of 2**
Total Dissolved Solids (mg/L)	**BRGWC-52I**	**185**	**n/a**	**2/8/2024**	**303**	**Yes**	**149**	**102.9**	**42.77**	**1.342**	**None**	**No**	**0.0008358**	**Param Inter 1 of 2**

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Exceeds Limit: BRGWC-25I, BRGWC-27I, BRGWC-29I, BRGWC-30I, BRGWC-32S, BRGWC-47, BRGWC-50, BRGWC-52I

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 148 background values. 53.38% NDs. Annual per-constituent alpha = 0.001623. Individual comparison alpha = 0.00009026 (1 of 2). Comparing 9 points to limit.

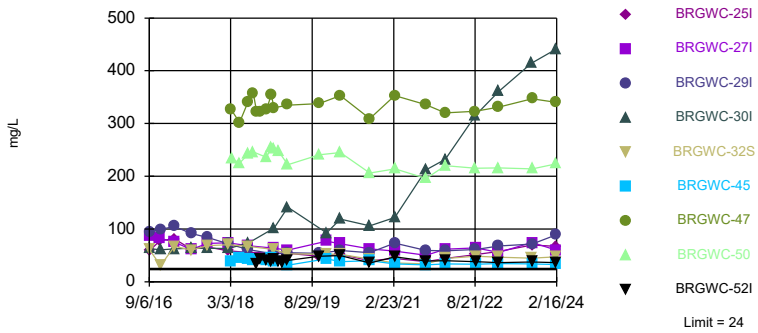
Constituent: Boron Analysis Run 4/3/2024 1:33 PM View: Pond BCD - Appendix III
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Exceeds Limit: BRGWC-25I, BRGWC-27I, BRGWC-29I, BRGWC-30I, BRGWC-32S, BRGWC-45, BRGWC-47, BRGWC-50,..

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 150 background values. 4% NDs. Annual per-constituent alpha = 0.001582. Individual comparison alpha = 0.00008795 (1 of 2). Comparing 9 points to limit.

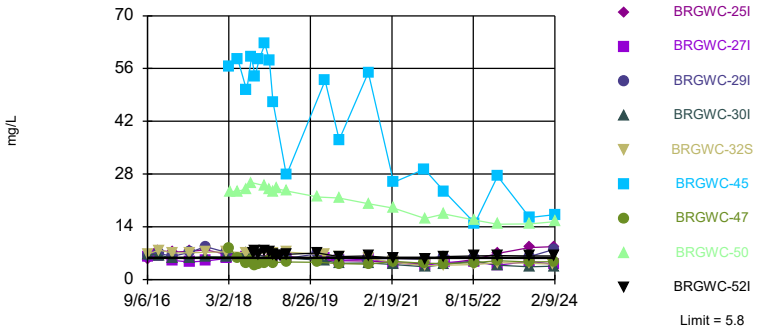
Constituent: Calcium Analysis Run 4/3/2024 1:33 PM View: Pond BCD - Appendix III
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Exceeds Limit: BRGWC-25I, BRGWC-29I, BRGWC-45, BRGWC-50, BRGWC-52I

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 150 background values. Annual per-constituent alpha = 0.001582. Individual comparison alpha = 0.00008795 (1 of 2). Comparing 9 points to limit.

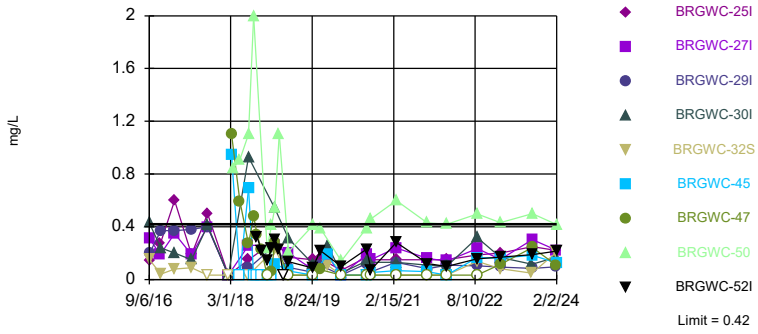
Constituent: Chloride Analysis Run 4/3/2024 1:33 PM View: Pond BCD - Appendix III
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 164 background values. 48.78% NDs. Annual per-constituent alpha = 0.001318. Individual comparison alpha = 0.00007326 (1 of 2). Comparing 9 points to limit.

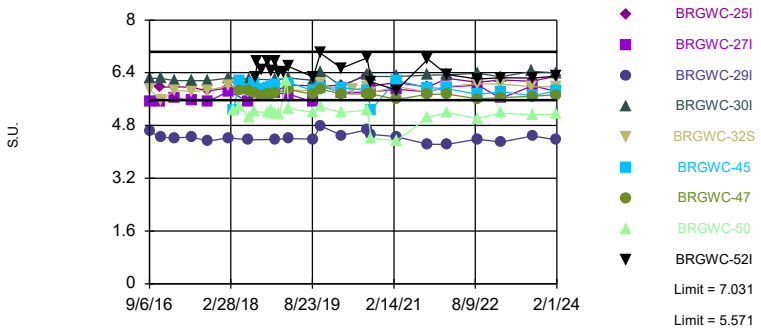
Constituent: Fluoride Analysis Run 4/3/2024 1:33 PM View: Pond BCD - Appendix III
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Exceeds Limits: BRGWC-29I, BRGWC-50

Prediction Limit

Interwell Parametric



Background Data Summary: Mean=6.301, Std. Dev.=0.3806, n=166. Normality test: Chi Squared @alpha = 0.01, calculated = 7.855, critical = 14.07. Kappa = 1.918 (c=7, w=9, 1 of 2, event alpha = 0.05132). N exceeds UG tables; Kappa based on n=150. Report alpha = 0.007498. Individual comparison alpha = 0.0004179. Comparing 9 points to limit.

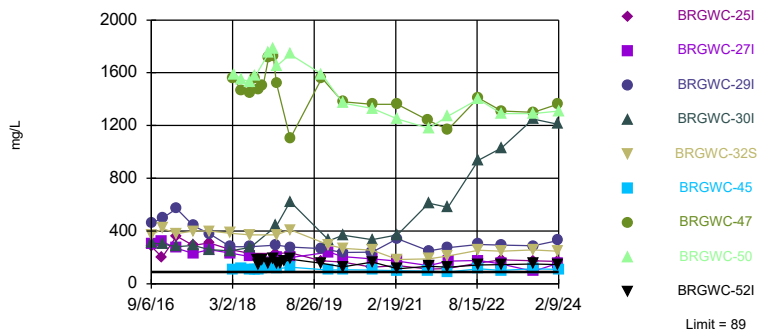
Constituent: pH, Field Analysis Run 4/3/2024 1:33 PM View: Pond BCD - Appendix III
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Exceeds Limit: BRGWC-25I, BRGWC-27I, BRGWC-29I, BRGWC-30I, BRGWC-32S, BRGWC-45, BRGWC-47, BRGWC-50,..

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 150 background values. 12.67% NDs. Annual per-constituent alpha = 0.001582. Individual comparison alpha = 0.00008795 (1 of 2). Comparing 9 points to limit.

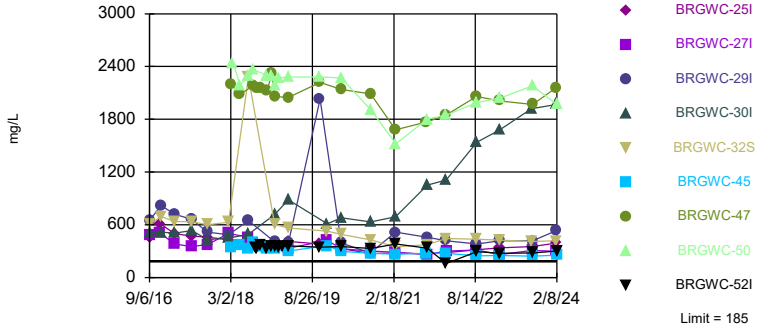
Constituent: Sulfate Analysis Run 4/3/2024 1:33 PM View: Pond BCD - Appendix III
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Exceeds Limit: BRGWC-25I, BRGWC-27I, BRGWC-29I, BRGWC-30I, BRGWC-32S, BRGWC-45, BRGWC-47, BRGWC-50,..

Prediction Limit

Interwell Parametric



Background Data Summary: Mean=102.9, Std. Dev.=42.77, n=149, 1.342% NDs. Normality test: Chi Squared @alpha = 0.01, calculated = 11.2, critical = 14.07. Kappa = 1.918 (c=7, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.0008358. Comparing 9 points to limit.

Constituent: Total Dissolved Solids Analysis Run 4/3/2024 1:33 PM View: Pond BCD - Appendix III
Plant Branch Data: Plant Branch AP

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 4/3/2024 1:41 PM View: Pond BCD - Appendix III

Plant Branch Data: Plant Branch AP

	BRGWA-5S (bg)	BRGWA-5I (bg)	BRGWA-2S (bg)	BRGWA-2I (bg)	BRGWA-12I (bg)	BRGWA-6S (bg)	BRGWA-12S (bg)	BRGWC-30I	BRGWA-23S (bg)
8/31/2016	<0.0052	<0.0052	<0.0052	0.0072 (J)					
9/1/2016					0.0093 (J)	<0.0052	<0.0052		
9/6/2016								1.96	0.0362 (J)
9/8/2016									
11/15/2016	0.0085 (J)					0.0123 (J)			
11/16/2016		0.0187 (J)	0.0109 (J)	0.0117 (J)	0.0127 (J)		0.0081 (J)		
11/17/2016									0.0617
11/18/2016									
11/21/2016								1.68	
2/20/2017	0.0093 (J)	0.0066 (J)				0.0157 (J)			
2/21/2017			<0.0052	0.0088 (J)	0.0071 (J)		<0.0052		0.0245 (J)
2/22/2017								1.48	
6/12/2017	<0.0052	<0.0052		0.0133 (J)		<0.0052			
6/13/2017			<0.0052				<0.0052		<0.0052
6/14/2017					0.0078 (J)			1.71	
9/26/2017	<0.0052	<0.0052	<0.0052	0.0093 (J)	<0.0052	<0.0052	<0.0052		<0.0052
9/27/2017								1.61	
2/13/2018	<0.0052	<0.0052	<0.0052	0.0141 (J)		<0.0052			
2/14/2018					0.0068 (J)		<0.0052	1.47	0.0314 (J)
3/6/2018									
3/15/2018									
5/1/2018									
6/26/2018	0.0056 (J)	0.0042 (J)	<0.0052	0.012 (J)	0.008 (J)	0.0041 (J)	<0.0052		0.062
6/27/2018									
6/28/2018								1.4	
7/31/2018									
8/1/2018									
8/10/2018									
8/23/2018									
9/19/2018									
10/29/2018									
11/28/2018									
12/18/2018	0.0062 (J)	<0.0052	<0.0052	0.0086 (J)	0.0083 (J)	<0.0052	0.0053 (J)	1.6	0.055
12/19/2018									
12/20/2018									
1/16/2019									
1/17/2019									
2/13/2019									
3/19/2019	<0.0052	<0.0052	<0.0052	0.00565 (JD)	0.008 (J)	<0.0052	<0.0052		0.068
3/20/2019								1.7	
10/15/2019	0.006 (J)	<0.0052	<0.0052	0.0067 (J)	0.006 (J)	0.01 (J)	<0.0052		0.022 (J)
10/16/2019									
10/17/2019								1.7	
12/3/2019									
12/4/2019								1.6	
3/3/2020	<0.0052	<0.0052	<0.0052	0.0082 (J)	0.01 (J)	<0.0052	0.0065 (J)		
3/4/2020									0.044 (J)
3/5/2020								1.5	
9/15/2020	<0.0052	<0.0052	<0.0052	<0.0052	0.0071 (J)	<0.0052	<0.0052		0.033 (J)
9/16/2020								1.7	
9/17/2020									
3/1/2021				<0.0052		<0.0052			

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 4/3/2024 1:41 PM View: Pond BCD - Appendix III
Plant Branch Data: Plant Branch AP

	BRGWA-5S (bg)	BRGWA-5I (bg)	BRGWA-2S (bg)	BRGWA-2I (bg)	BRGWA-12I (bg)	BRGWA-6S (bg)	BRGWA-12S (bg)	BRGWC-30I	BRGWA-23S (bg)
3/2/2021	0.0071 (J)	0.0053 (J)	<0.0052		0.0057 (J)		<0.0052		0.042
3/3/2021								1.4	
3/4/2021									
9/21/2021	<0.0052	<0.0052			<0.0052		<0.0052		
9/22/2021			<0.0052	<0.0052		<0.0052			0.047
9/23/2021									
9/27/2021									
9/28/2021								1.7	
2/1/2022	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052		0.046
2/2/2022								1.9	
2/3/2022									
2/4/2022									
8/23/2022	0.00538 (J)	<0.0052	0.00532 (J)	0.00592 (J)	0.00653 (J)	<0.0052	<0.0052		0.0498
8/24/2022								2.15	
8/25/2022									
1/24/2023	<0.0052	<0.0052	<0.0052	<0.0052	0.00884 (J)	<0.0052	0.0053 (J)		0.0437
1/25/2023									
1/26/2023								2.17	
8/31/2023	0.00764 (J)	0.0073 (J)	0.00738 (J)	0.00649 (J)		0.00611 (J)			0.039
9/1/2023								2.05	
9/6/2023									
9/8/2023									
2/12/2024	<0.0052	<0.0052	<0.0052	<0.0052		<0.0052		2.36	0.0389
2/14/2024									
2/16/2024									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 4/3/2024 1:41 PM View: Pond BCD - Appendix III

Plant Branch Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-32S	BRGWC-47	BRGWC-45	BRGWC-50	BRGWC-52I
8/31/2016								
9/1/2016								
9/6/2016								
9/8/2016	1.03	1.63	1.35	1.28				
11/15/2016								
11/16/2016								
11/17/2016	1.7							
11/18/2016		1.91						
11/21/2016			1.74	1.19				
2/20/2017								
2/21/2017	1.55	1.39						
2/22/2017			1.5	1.43				
6/12/2017								
6/13/2017	1.77	1.62						
6/14/2017			1.6	1.57				
9/26/2017								
9/27/2017	1.75	1.16	1.83	1.51				
2/13/2018								
2/14/2018	1.47	1.17	1.8	1.6				
3/6/2018					0.428	0.0198 (J)		
3/15/2018							0.32	
5/1/2018					0.435 (D)	0.015 (J)	0.32	
6/26/2018	1.8							
6/27/2018		1.4 (J+X)	1.8 (J+X)	1.5 (J+X)	0.49 (J+X)			
6/28/2018						<0.0052 (X)	0.34	
7/31/2018						0.035 (J)		
8/1/2018					0.39		0.28	
8/10/2018								1.3
8/23/2018					0.39	0.022 (J)		1.4
9/19/2018					0.43	0.021 (J)		1.7
10/29/2018					0.4	0.021 (J)	0.3	1.3
11/28/2018					0.51	<0.0052 (X)	0.35	1.5
12/18/2018	1.5		1.5					
12/19/2018				1.6	0.41		0.35	
12/20/2018		1.4				0.028 (J)		1.6
1/16/2019							0.37	
1/17/2019								1.5
2/13/2019								1.7
3/19/2019		1.1			0.41			
3/20/2019	1.5 (D)		1.5	1.4		0.043	0.34	1.6 (D)
10/15/2019	1.2							
10/16/2019			1.2		0.36		0.31	1.3
10/17/2019		0.97		1.5		0.064		
12/3/2019						0.027 (J)		
12/4/2019		0.89		1.6				
3/3/2020								
3/4/2020	1.2	0.81	1.1		0.49		0.32	1.4
3/5/2020				1.5		0.044 (J)		
9/15/2020	1.2		1.1					
9/16/2020		1.2		1.4	0.47	0.028 (J)		
9/17/2020							0.36	1.9
3/1/2021								

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 4/3/2024 1:41 PM View: Pond BCD - Appendix III
Plant Branch Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-32S	BRGWC-47	BRGWC-45	BRGWC-50	BRGWC-52I
3/2/2021	1.1				0.58	0.044		
3/3/2021		0.91	1					
3/4/2021				1.1			0.31	1.4
9/21/2021								
9/22/2021								
9/23/2021					0.47	0.029 (J)		
9/27/2021							0.32	
9/28/2021	1.1	0.95	0.9	0.91				1.4
2/1/2022								
2/2/2022	1.1			1	0.48	0.034 (J)		1.5
2/3/2022			0.93				0.31	
2/4/2022		1						
8/23/2022	1.38				0.547			
8/24/2022			1.13				0.406	
8/25/2022		1.03		1.07		0.0458		1.56
1/24/2023				1.11				
1/25/2023		1.14				0.0355	0.383	1.79
1/26/2023	1.45		1.07		0.661			
8/31/2023								
9/1/2023				1.13				
9/6/2023	1.95	1.25	1.34		0.689	0.0444		1.87
9/8/2023							0.372	
2/12/2024				1.23	0.618			
2/14/2024	1.61	1.17	1.11			0.0355		
2/16/2024							0.389	1.61

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/3/2024 1:41 PM View: Pond BCD - Appendix III

Plant Branch Data: Plant Branch AP

	BRGWA-5S (bg)	BRGWA-5I (bg)	BRGWA-2S (bg)	BRGWA-2I (bg)	BRGWA-12I (bg)	BRGWA-6S (bg)	BRGWA-12S (bg)	BRGWC-30I	BRGWA-23S (bg)
8/31/2016	19.6	13.5	4.09	12.6					
9/1/2016					8.98	3.3	4.61		
9/6/2016								63.3	12.8
9/8/2016									
11/15/2016	21.7					3.44			
11/16/2016		14.9	4.25	12.1	15.4		4.17		
11/17/2016									19.2
11/18/2016									
11/21/2016								60.7	
2/20/2017	21.1	13.9				3.52			
2/21/2017			4.02	11.4	17.4		5		15.1
2/22/2017								62.1	
6/12/2017	21.5	13.7		9.34		3.11			
6/13/2017			3.84				4.98		10.2
6/14/2017					18.1			63.5	
9/26/2017	24	14.4	3.31	14.3	19.3	3.15	4.49		15
9/27/2017								63.5	
2/13/2018	<25	<25	3.94	<25		3.65			
2/14/2018					<25		<25	62.8	<25
3/6/2018									
3/15/2018									
5/1/2018									
6/26/2018	23.5 (J)	13.5 (J)	3.6	16 (J)	15.5 (J)	3.3	6.4		18.5 (J)
6/27/2018									
6/28/2018								73.3	
7/31/2018					18.2 (J)		6.1		
8/1/2018									
8/10/2018									
8/23/2018									
9/19/2018									
10/29/2018									
11/28/2018									
12/18/2018	19.8 (J)	16.4 (J)	3.8	14.5 (J)	18.7 (J)	3.5	5.5	102	16.8 (J)
12/19/2018									
12/20/2018									
1/16/2019									
1/17/2019									
2/13/2019									
3/19/2019	21.4 (J)	12.3 (J)	3.9	14.3 (JD)	15.9 (J)	3.6	5.9		13.5 (J)
3/20/2019								141	
10/15/2019	20	14.4	3.7	15.1	15.9	3.5	6.2		8.6
10/16/2019									
12/3/2019									
12/4/2019								92.6	
3/3/2020	23.2	14.9	4	20	19.4	5	6.8		
3/4/2020									11.5
3/5/2020								119	
9/15/2020	16.8	12.7	3.9	14.1	14.5	3.7	5.7		10.7
9/16/2020								106	
9/17/2020									
3/1/2021				15.4		4.2			
3/2/2021	16.8	13.2	4		11.7		5.4		11.6

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/3/2024 1:41 PM View: Pond BCD - Appendix III

Plant Branch Data: Plant Branch AP

	BRGWA-5S (bg)	BRGWA-5I (bg)	BRGWA-2S (bg)	BRGWA-2I (bg)	BRGWA-12I (bg)	BRGWA-6S (bg)	BRGWA-12S (bg)	BRGWC-30I	BRGWA-23S (bg)
3/3/2021								122	
3/4/2021									
9/21/2021	19.1	14.1			16.4		5.4		
9/22/2021			4.3	15.9		4.1			9.2
9/23/2021									
9/27/2021									
9/28/2021								212	
2/1/2022	19.1	14.5	4.4	14.4	14.2	4.2	5.3		10.7
2/2/2022								232	
2/3/2022									
2/4/2022									
8/23/2022	18.2	14.3	4.65	13.9	15.8	3.97	6.09		8.09
8/24/2022								316	
8/25/2022									
1/24/2023	19.4	15.8	4.86	14.2	13.7	3.9	5.62		6.97
1/25/2023									
1/26/2023								361	
8/31/2023	14.9	14.3	5.02	12.6		3.79			5.95
9/1/2023								414	
9/6/2023									
9/8/2023									
2/12/2024	18.2	16	5.25	14.1		4.27		441	6.19
2/14/2024									
2/16/2024									

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/3/2024 1:41 PM View: Pond BCD - Appendix III

Plant Branch Data: Plant Branch AP

	BRGWC-27I	BRGWC-25I	BRGWC-32S	BRGWC-29I	BRGWC-47	BRGWC-45	BRGWC-50	BRGWC-52I
8/31/2016								
9/1/2016								
9/6/2016								
9/8/2016	87.2	59.4	60.5	93.9				
11/15/2016								
11/16/2016								
11/17/2016		78.4						
11/18/2016	82.4							
11/21/2016			31.1	99.1				
2/20/2017								
2/21/2017	75.1	80.9						
2/22/2017			67.3	105				
6/12/2017								
6/13/2017	61	62						
6/14/2017			60.2	91.3				
9/26/2017								
9/27/2017	72.6	65.8	68.4	84				
2/13/2018								
2/14/2018	74.1	58.8	70.2	72.1				
3/6/2018					326	39.5		
3/15/2018							233	
5/1/2018					302 (D)	45.5	225	
6/26/2018		55.5						
6/27/2018	68.2		67.1	61.1	340			
6/28/2018						41.9	242	
7/31/2018						41.5		
8/1/2018					358		246	
8/10/2018								410 (O)
8/23/2018					323	42.3		33.9
9/19/2018					321	41.9		42.3
10/29/2018					326	40.8	236	39.8
11/28/2018					354	45.1	254	38.2
12/18/2018		54.7		52.9				
12/19/2018			61.2		330		252	
12/20/2018	63.9					39		43.2
1/16/2019							248	
1/17/2019								39.4
2/13/2019								36.9
3/19/2019	60.2				335			
3/20/2019		53.95 (D)	52.8	55.4		31.2	222	40.85 (D)
10/15/2019		48.3						
10/16/2019				54	338		241	48.4
12/3/2019						43.7		
12/4/2019	76.8		52.7					
3/3/2020								
3/4/2020	72.3	52		59.3	353		245	49.5
3/5/2020			52.1			37.9		
9/15/2020		40.1		55.1				
9/16/2020	62.5		43.1		309	39.7		
9/17/2020							206	35.4
3/1/2021								
3/2/2021		44.1			353	33.9		

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/3/2024 1:41 PM View: Pond BCD - Appendix III

Plant Branch Data: Plant Branch AP

	BRGWC-27I	BRGWC-25I	BRGWC-32S	BRGWC-29I	BRGWC-47	BRGWC-45	BRGWC-50	BRGWC-52I
3/3/2021	58.2			73.3				
3/4/2021			35.7				214	47.5
9/21/2021								
9/22/2021								
9/23/2021					336	32		
9/27/2021							196	
9/28/2021	50.4	38.4	33.9	59.5				39.5
2/1/2022								
2/2/2022		44.3	44.2		320	33.8		40.1
2/3/2022				58.7			220	
2/4/2022	61.7							
8/23/2022		51.5			323			
8/24/2022				61			215	
8/25/2022	64		48.5			33.5		38.3
1/24/2023			46.6					
1/25/2023	55.7					34.3	216	36.3
1/26/2023		57.6		68	331			
8/31/2023			45.1					
9/1/2023								
9/6/2023	74.4	69.6		71.4	347	34		37.4
9/8/2023							214	
2/12/2024			47.4		340			
2/14/2024	60	67.4		89.3		32.8		36.4
2/16/2024							224	

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/3/2024 1:41 PM View: Pond BCD - Appendix III

Plant Branch Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-12I (bg)	BRGWA-12S (bg)	BRGWA-6S (bg)	BRGWA-23S (bg)	BRGWC-30I
8/31/2016	2.3	2	4.4	3.6					
9/1/2016					3.3	3.5	2.5		
9/6/2016								5.8	6.7
9/8/2016									
11/15/2016				4			2.3		
11/16/2016	2	1.8	4.4		3.6	3.6			
11/17/2016								4.3	
11/18/2016									
11/21/2016									6.5
2/20/2017			4.8	3.9			2.4		
2/21/2017	2	1.8			3.2	3.2		3.5	
2/22/2017									5.6
6/12/2017	2.1		4.2	3.8			2.2		
6/13/2017		1.7				3.3		3.2	
6/14/2017					3.1				5.7
9/26/2017	2	1.8	4.4	4.1	3.3	3.3	2.3	3.5	
9/27/2017									6
2/13/2018	2.1	1.7	4.7	4.1			2.3		
2/14/2018					3.1	3.5		3.8	5.9
3/6/2018									
3/15/2018									
5/1/2018									
6/26/2018	2.4	2.2	4.5	4.1	3.4	3.4	2.6	3.8	
6/27/2018									
6/28/2018									7 (J-X)
7/31/2018					2.6	2.9			
8/1/2018									
8/10/2018									
8/23/2018									
9/19/2018									
10/29/2018									
11/28/2018									
12/18/2018	1.8	1.9	4.5	3.8	2.8	2.9	2.3	3.9	5.8
12/19/2018									
12/20/2018									
1/16/2019									
1/17/2019									
2/13/2019									
3/19/2019	2.45 (D)	2	4.5	4.2	3.2	3.5	2.6	3.8	
3/20/2019									5.8
10/15/2019	2.2	1.9	4.2	3.7	3.1	3.4	2.4	3.5	
10/16/2019									
12/3/2019									
12/4/2019									5
3/3/2020	1.9	1.9	3.9	3.6	2.6	3.2	2.9		
3/4/2020								3.3	
3/5/2020									4.3
9/15/2020	1.9	1.7	3.7	3.7	2.4	3.5	2.3	3.1	
9/16/2020									4.4
9/17/2020									
3/1/2021	1.8						2.1		
3/2/2021		1.7	3.8	3.7	2.6	3.7		3.5	

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/3/2024 1:41 PM View: Pond BCD - Appendix III

Plant Branch Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-12I (bg)	BRGWA-12S (bg)	BRGWA-6S (bg)	BRGWA-23S (bg)	BRGWC-30I
3/3/2021									4
3/4/2021									
9/21/2021			3.2	3.2	2.1	3.5			
9/22/2021	1.7	1.5					2.1	2.8	
9/23/2021									
9/27/2021									
9/28/2021									3.4
2/1/2022	1.8	1.6	3.5	3.4	2.2	3.6	2.1	3.2	
2/2/2022									4
2/3/2022									
2/4/2022									
8/23/2022	2.02	2.18	3.64	3.59	2.5	5.46	2.39	3.16	
8/24/2022									4.91
8/25/2022									
1/24/2023	2.09	2.16	3.93	3.56	2.49	3.79	2.3	2.88	
1/25/2023									
1/26/2023									3.82
8/23/2023	1.9	2.14	3.53	3.37			2.34	2.41	3.35
8/25/2023									
8/26/2023									
1/31/2024	2.35	2.14	3.98	3.52			3.23		
2/1/2024								2.4	3.52
2/2/2024									
2/9/2024									

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/3/2024 1:41 PM View: Pond BCD - Appendix III

Plant Branch Data: Plant Branch AP

	BRGWC-27I	BRGWC-25I	BRGWC-32S	BRGWC-29I	BRGWC-45	BRGWC-47	BRGWC-50	BRGWC-52I
8/31/2016								
9/1/2016								
9/6/2016								
9/8/2016	6	5.5	6.8	6.4				
11/15/2016								
11/16/2016								
11/17/2016		7.7						
11/18/2016	6.3							
11/21/2016			7.8	6.9				
2/20/2017								
2/21/2017	5.1	7.3						
2/22/2017			7	6.2				
6/12/2017								
6/13/2017	4.7	7.5						
6/14/2017			7.1	7.2				
9/26/2017								
9/27/2017	4.9	7.9	7.2	8.7				
2/13/2018								
2/14/2018	5.6	6.7	7.4	7.2				
3/6/2018					56.6	8.4		
3/15/2018							23.3	
5/1/2018					58.5	5.7 (JXD)	23.4	
6/26/2018		6.7						
6/27/2018	5.9		7.1	6.3		4.4		
6/28/2018					50.2 (J-X)		24 (J-X)	
7/31/2018					59			
8/1/2018						5.2	25.7	
8/10/2018								6.9
8/23/2018					54	3.6		7.5
9/19/2018					58.4	4.1		6.6
10/29/2018					62.6	4.3	24.9	7.8
11/28/2018					58.1	5.1	24	7.2
12/18/2018		6.2		5.4				
12/19/2018			7 (J-X)			4.5 (J-X)	23.3 (J-X)	
12/20/2018	5.6 (J-X)				47.2 (J-X)			6.6 (J-X)
1/16/2019							24.1	
1/17/2019								6.4
2/13/2019								6.5
3/19/2019	5.8					4.7		
3/20/2019		6.3 (D)	7.3	5.6	27.7		23.5	6.7 (D)
10/15/2019		5						
10/16/2019				6.9		4.6	21.9	7
12/3/2019					52.8			
12/4/2019	5.6		6.6					
3/3/2020								
3/4/2020	5.1	5		5.8		4.2	21.6	6.1
3/5/2020			6		37.1			
9/15/2020		4.9		5.5				
9/16/2020	5.4		5.6		54.9	4.1		
9/17/2020							20.1	6.3
3/1/2021								
3/2/2021		4.5			25.8	4.8		

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/3/2024 1:41 PM View: Pond BCD - Appendix III

Plant Branch Data: Plant Branch AP

	BRGWC-27I	BRGWC-25I	BRGWC-32S	BRGWC-29I	BRGWC-45	BRGWC-47	BRGWC-50	BRGWC-52I
3/3/2021	4.5			5.6				
3/4/2021			4.6				18.9	5.6
9/21/2021								
9/22/2021								
9/23/2021					29.3	4.3		
9/27/2021							16.2	
9/28/2021	3.7	4.2	3.6	5.4				5.5
2/1/2022								
2/2/2022		4.2	3.8		23.4	4.2		6.1
2/3/2022				6.1			17.4	
2/4/2022	4.6							
8/23/2022		5.38				4.49		
8/24/2022				5.84			15.8	
8/25/2022	4.65		3.96		14.9			6.27
1/24/2023			4.49					
1/25/2023	3.81				27.4		14.7	6.35
1/26/2023		6.96		5.59		4.96		
8/23/2023			4.3					
8/25/2023	4.81	8.47		6.08		4.67	14.8	6.28
8/26/2023					16.5			
1/31/2024			4.1					
2/1/2024	4.05	8.73		7.94		4.74		
2/2/2024								6.3
2/9/2024					17.2		15.4	

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/3/2024 1:41 PM View: Pond BCD - Appendix III

Plant Branch Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-5S (bg)	BRGWA-5I (bg)	BRGWA-2S (bg)	BRGWA-12I (bg)	BRGWA-6S (bg)	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWC-30I
8/31/2016	0.11 (J)	0.19 (J)	0.07 (J)	0.05 (J)					
9/1/2016					0.2 (J)	0.06 (J)	0.05 (J)		
9/6/2016								0.42	0.43
9/8/2016									
11/15/2016		0.13 (J)				0.06 (J)			
11/16/2016	0.08 (J)		0.07 (J)	0.07 (J)	0.14 (J)		0.03 (J)		
11/17/2016								0.15 (J)	
11/18/2016									
11/21/2016									0.24 (J)
2/20/2017		0.08 (J)	0.06 (J)			0.04 (J)			
2/21/2017	0.14 (J)			0.05 (J)	0.16 (J)		0.04 (J)	0.1 (J)	
2/22/2017									0.2 (J)
6/12/2017	0.16 (J)	0.07 (J)	0.008 (J)			0.06 (J)			
6/13/2017				0.04 (J)			0.008 (J)	0.07 (J)	
6/14/2017					0.09 (J)				0.15 (J)
9/26/2017	0.14 (J)	0.04 (J)	<0.033	<0.033	0.1 (J)	<0.033	<0.033	<0.033	
9/27/2017									0.41
2/13/2018	<0.033	<0.033	<0.033	<0.033		<0.033			
2/14/2018					<0.033		<0.033	<0.033	<0.033
3/6/2018									
3/15/2018									
5/1/2018									
6/26/2018	0.085 (J)	0.072 (J)	0.045 (J)	0.048 (J)	0.079 (J)	0.041 (J)	0.042 (J)	0.053 (J)	
6/27/2018									
6/28/2018									0.93 (J+X)
7/31/2018									
8/1/2018									
8/10/2018									
8/23/2018									
9/19/2018									
10/29/2018									
11/28/2018									
12/18/2018	0.085 (J)	<0.033	<0.033	<0.033	<0.033	<0.033	<0.033	<0.033	0.54
12/19/2018									
12/20/2018									
1/16/2019									
1/17/2019									
2/13/2019									
3/19/2019	0.0655 (JD)	0.06 (J)	<0.033	0.037 (J)	<0.033	0.03 (J)	<0.033	<0.033	
3/20/2019									0.31
8/27/2019	<0.033	<0.033	<0.033	<0.033	<0.033	<0.033	<0.033		0.12 (J)
8/28/2019									
8/29/2019								0.084 (J)	
10/15/2019	<0.033	0.045 (J)	<0.033	<0.033	0.047 (J)	<0.033	<0.033	<0.033	
10/16/2019									
12/3/2019									
12/4/2019									0.26 (J)
3/3/2020	0.066 (J)	0.057 (J)	<0.033	0.05 (J)	0.056 (J)	0.09 (J)	<0.033		
3/4/2020								<0.033	
3/5/2020									0.051 (J)
8/18/2020	<0.033	<0.033	<0.033	<0.033	0.052 (J)	<0.033	<0.033	<0.033	
8/19/2020									0.14

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/3/2024 1:41 PM View: Pond BCD - Appendix III

Plant Branch Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-5S (bg)	BRGWA-5I (bg)	BRGWA-2S (bg)	BRGWA-12I (bg)	BRGWA-6S (bg)	BRGWA-12S (bg)	BRGWA-23S (bg)	BRGWC-30I
8/20/2020									
9/15/2020	<0.033	0.051 (J)	<0.033	<0.033	0.062 (J)	<0.033	<0.033	<0.033	
9/16/2020									0.13
9/17/2020									
3/1/2021	<0.033					<0.033			
3/2/2021		<0.033	<0.033	<0.033	0.061 (J)		<0.033	<0.033	
3/3/2021									0.13
3/4/2021									
9/21/2021		0.056 (J)	<0.033		0.071 (J)		<0.033		
9/22/2021	<0.033			<0.033		<0.033		0.069 (J)	
9/23/2021									
9/27/2021									
9/28/2021									0.11
2/1/2022	<0.033	<0.033	<0.033	<0.033	0.055 (J)	<0.033	<0.033	<0.033	
2/2/2022									0.1
2/3/2022									
2/4/2022									
8/23/2022	<0.033	<0.033	<0.033	<0.033	0.151	<0.033	0.129	0.157	
8/24/2022									0.318
8/25/2022									
1/24/2023	<0.033	0.158	0.149	<0.033	0.214	0.12	0.0926 (J)	0.231	
1/25/2023									
1/26/2023									0.167
8/23/2023	0.267	0.277	0.289	0.229		0.0787 (J)		0.114	0.116
8/24/2023									
8/25/2023									
1/31/2024	<0.033	0.233	0.232	0.184		0.0341 (J)			
2/1/2024								0.275	0.169
2/2/2024									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/3/2024 1:41 PM View: Pond BCD - Appendix III

Plant Branch Data: Plant Branch AP

	BRGWC-25I	BRGWC-32S	BRGWC-27I	BRGWC-29I	BRGWC-45	BRGWC-47	BRGWC-50	BRGWC-52I
8/31/2016								
9/1/2016								
9/6/2016								
9/8/2016	0.14 (J)	0.15 (J)	0.31	0.2 (J)				
11/15/2016								
11/16/2016								
11/17/2016	0.27 (J)							
11/18/2016			0.19 (J)					
11/21/2016		0.04 (J)		0.37				
2/20/2017								
2/21/2017	0.6		0.35					
2/22/2017		0.08 (J)		0.37				
6/12/2017								
6/13/2017	0.19 (J)		0.19 (J)					
6/14/2017		0.09 (J)		0.38				
9/26/2017								
9/27/2017	0.5	<0.033	0.4	0.4				
2/13/2018								
2/14/2018	<0.033	<0.033	<0.033	<0.033				
3/6/2018					0.94	1.1		
3/15/2018							0.84 (JX)	
5/1/2018					<0.033	0.595 (D)	0.91	
6/26/2018	0.15 (J)							
6/27/2018		<0.033	0.26 (J)	0.085 (J)		0.27 (J)		
6/28/2018					0.69 (J+X)		1.1 (J+X)	
7/31/2018					<0.033			
8/1/2018						0.48	2	
8/10/2018								1.6 (O)
8/23/2018					<0.033	0.34		0.32
9/19/2018					<0.033	0.23 (J)		0.22 (J)
10/29/2018					<0.033	<0.033	0.24 (J)	0.14 (J)
11/28/2018					<0.033	0.063 (J)	0.41	0.24 (J)
12/18/2018	0.29 (J)			0.26 (J)				
12/19/2018		0.23 (J)				0.28 (J)	0.54	
12/20/2018			0.26 (J)		0.12 (J)			0.3
1/16/2019							1.1	
1/17/2019								0.23 (J)
2/13/2019								<0.033
3/19/2019			0.2 (J)			<0.033		
3/20/2019	0.17 (JD)	<0.033		0.091 (J)	0.066 (J)		0.21 (J)	0.135 (JD)
8/27/2019	0.15 (J)	<0.033						
8/28/2019			0.074 (J)	0.055 (J)	<0.033	<0.033		
8/29/2019							0.41	0.087 (J)
10/15/2019	0.16 (J)							
10/16/2019				0.11 (J)		0.076 (J)	0.39	0.22 (J)
12/3/2019					0.19 (J)			
12/4/2019		0.11 (J)	0.18 (J)					
3/3/2020								
3/4/2020	0.07 (J)		<0.033	<0.033		<0.033	0.14 (J)	0.1 (J)
3/5/2020		<0.033			<0.033			
8/18/2020								
8/19/2020	0.17	<0.033	0.19	0.12				

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/3/2024 1:41 PM View: Pond BCD - Appendix III

Plant Branch Data: Plant Branch AP

	BRGWC-25I	BRGWC-32S	BRGWC-27I	BRGWC-29I	BRGWC-45	BRGWC-47	BRGWC-50	BRGWC-52I
8/20/2020					<0.033	<0.033	0.39	0.23
9/15/2020	0.15			0.057 (J)				
9/16/2020		<0.033	0.15		0.052 (J)	<0.033		
9/17/2020							0.46	0.074 (J)
3/1/2021								
3/2/2021	0.15				0.067 (J)	<0.033		
3/3/2021			0.24	0.13				
3/4/2021		<0.033					0.6	0.28
9/21/2021								
9/22/2021								
9/23/2021					0.06 (J)	<0.033		
9/27/2021							0.43	
9/28/2021	0.15	<0.033	0.16	0.081 (J)				0.12
2/1/2022								
2/2/2022	0.15	<0.033			<0.033	<0.033		0.098 (J)
2/3/2022				0.11			0.42	
2/4/2022			0.14					
8/23/2022	0.186					<0.033		
8/24/2022				0.103			0.497	
8/25/2022		0.138	0.234		0.166			0.157
1/24/2023		0.082 (J)						
1/25/2023			0.152		0.163		0.432	0.169
1/26/2023	0.202			0.0935 (J)		0.117		
8/23/2023		0.0477 (J)						
8/24/2023							0.499	
8/25/2023	0.25		0.302	0.0849 (J)	0.185	0.243		0.188 (J)
1/31/2024		0.207						
2/1/2024	0.221		0.222	0.0968 (J)		0.11		
2/2/2024					0.126		0.416	0.215

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: pH, Field (S.U.) Analysis Run 4/3/2024 1:41 PM View: Pond BCD - Appendix III

Plant Branch Data: Plant Branch AP

	BRGWA-5S (bg)	BRGWA-5I (bg)	BRGWA-2S (bg)	BRGWA-2I (bg)	BRGWA-12I (bg)	BRGWA-6S (bg)	BRGWA-12S (bg)	BRGWC-30I	BRGWA-23S (bg)
8/31/2016	6.59	6.53	6.2	7.16					
9/1/2016					6.71	6.49	6		
9/6/2016								6.23	6.49
9/8/2016									
11/15/2016	6.67					6.59			
11/16/2016		6.4	6.12	6.96	6.15		6		
11/17/2016									5.79
11/18/2016									
11/21/2016								6.23	
2/20/2017	6.65	6.44				6.61			
2/21/2017			6.24	7.15	6.52		6.09		6.15
2/22/2017								6.16	
6/12/2017	6.64	6.4		7.31					
6/13/2017			6.19		6.42		6.03		5.87
6/14/2017					6.51			6.16	
9/26/2017	6.58	6.31	6.15	7.02	6.42	6.47	5.85		5.82
9/27/2017								6.16	
2/13/2018	6.72	6.62	6.18	7.44		6.54			
2/14/2018					6.48		5.99	6.24	5.83
3/15/2018									
5/1/2018									
6/26/2018	6.43	6.29	6.05	6.93	6.2	6.23	5.86		5.73
6/27/2018									
6/28/2018								6.21	
7/31/2018					6.37		5.99		
8/1/2018									
8/10/2018									
8/23/2018									
9/19/2018									
10/29/2018									
11/28/2018									
12/18/2018	6.7	6.57	5.92	6.76	6.5	6.71	6.08	6.18	5.78
12/19/2018									
12/20/2018									
1/16/2019									
1/17/2019									
2/13/2019									
3/6/2019									
3/19/2019	6.63	6.45	6.18	6.87	6.28	6.18	5.71		5.28
3/20/2019								6.24	
8/27/2019	6.49	6.37	6.09	6.79	6.35	6.35	6	6.17	
8/28/2019									
8/29/2019									5.64
10/15/2019	7.01	6.77	6.06	6.57	6.8	6.36	6.61		5.7
10/16/2019									
10/17/2019								6.43	
3/3/2020	6.49	6.29	6.1	6.71	6.33	6.59	5.94		
3/4/2020									5.7
3/5/2020								5.99	
5/12/2020									
8/18/2020	6.41	6.29	6.06	6.59	6.25	6.33	5.75		5.56
8/19/2020								6.36	

Prediction Limit

Constituent: pH, Field (S.U.) Analysis Run 4/3/2024 1:41 PM View: Pond BCD - Appendix III

Plant Branch Data: Plant Branch AP

	BRGWA-5S (bg)	BRGWA-5I (bg)	BRGWA-2S (bg)	BRGWA-2I (bg)	BRGWA-12I (bg)	BRGWA-6S (bg)	BRGWA-12S (bg)	BRGWC-30I	BRGWA-23S (bg)
8/20/2020									
9/15/2020	6.25	6.27	6.01	6.64	6.01	6.43	6		5.72
9/16/2020								6.29	
9/17/2020									
3/1/2021				6.66		6.7			
3/2/2021	6.42	6.47	6.2		6.11		5.92		5.75
3/3/2021								6.29	
3/4/2021									
9/21/2021	6.36	6.32			6.53		5.87		
9/22/2021			6.06	6.78		6.48			5.72
9/23/2021									
9/27/2021									
9/28/2021								6.33	
2/1/2022	6.39	6.38	5.95	6.83	6.4	6.54	5.81		5.65
2/2/2022								6.34	
2/3/2022									
2/4/2022									
8/23/2022	6.36	6.24	5.95	6.67	6.39	6.51	5.9		5.66
8/24/2022								6.38	
8/25/2022									
1/24/2023	6.47	6.42	5.26	6.7	6.48	6.54	5.97		5.76
1/25/2023									
1/26/2023								6.28	
8/22/2023	6.09	6.36	5.97	6.91		6.27		6.44	5.89
8/23/2023									
8/24/2023									
1/30/2024	6.38	6.44	6.05	6.57		5.75		6.39	5.87
1/31/2024									
2/1/2024									

Prediction Limit

Constituent: pH, Field (S.U.) Analysis Run 4/3/2024 1:41 PM View: Pond BCD - Appendix III

Plant Branch Data: Plant Branch AP

	BRGWC-27I	BRGWC-25I	BRGWC-32S	BRGWC-29I	BRGWC-45	BRGWC-50	BRGWC-47	BRGWC-52I
8/31/2016								
9/1/2016								
9/6/2016								
9/8/2016	5.51	6.07	5.89	4.62				
11/15/2016								
11/16/2016		5.96						
11/17/2016								
11/18/2016	5.53							
11/21/2016			5.56	4.44				
2/20/2017								
2/21/2017	5.63	5.98						
2/22/2017			5.87	4.42				
6/12/2017								
6/13/2017	5.57	5.96						
6/14/2017			5.83	4.45				
9/26/2017								
9/27/2017	5.53	5.85	5.87	4.33				
2/13/2018								
2/14/2018	5.83	5.94	6.01	4.42				
3/15/2018					5.26	5.26		
5/1/2018					6.14	5.38	5.85	
6/26/2018		5.87						
6/27/2018	5.53		5.83	4.37			5.87	
6/28/2018					5.88	5.03		
7/31/2018					6.07			
8/1/2018						5.22	5.79	
8/10/2018								6.28
8/23/2018								6.75
9/19/2018					5.9		5.71	6.48
10/29/2018					5.93	5.19	5.76	6.77
11/28/2018					5.99	5.28	5.74	6.44
12/18/2018		5.84		4.38				
12/19/2018			5.79			5.15	5.8	
12/20/2018	5.78				6.04			6.75
1/16/2019						5.14		
1/17/2019								6.41
2/13/2019								6.42
3/6/2019						6.15		
3/19/2019	5.75						5.89	
3/20/2019		6.03	5.88	4.4	6.1	5.32		6.59
8/27/2019		6.01	5.85					
8/28/2019	5.51			4.39	5.86		5.74	
8/29/2019						5.2		6.27
10/15/2019		6						
10/16/2019				4.79		5.36	5.9	7
10/17/2019	6.01 (D)		6.09		5.93			
3/3/2020								
3/4/2020	5.8	6.02		4.5		5.2	5.76	6.54
3/5/2020			5.74		5.95			
5/12/2020			5.88					
8/18/2020								
8/19/2020	5.81	6.32	5.97	4.67				

Prediction Limit

Constituent: pH, Field (S.U.) Analysis Run 4/3/2024 1:41 PM View: Pond BCD - Appendix III

Plant Branch Data: Plant Branch AP

	BRGWC-27I	BRGWC-25I	BRGWC-32S	BRGWC-29I	BRGWC-45	BRGWC-50	BRGWC-47	BRGWC-52I
8/20/2020					5.86	5.26	5.75	6.85
9/15/2020		6		4.53				
9/16/2020	5.81		5.79		5.27		5.76	
9/17/2020						4.41		6.12
3/1/2021								
3/2/2021		6.1			6.17		5.59	
3/3/2021	5.9			4.46				
3/4/2021			5.98			4.34		5.87
9/21/2021								
9/22/2021								
9/23/2021					5.95		5.74	
9/27/2021						5.05		
9/28/2021	5.82	5.97	5.82	4.23				6.81
2/1/2022								
2/2/2022		6.23	5.99		5.92		5.75	6.35
2/3/2022				4.23		5.2		
2/4/2022	5.97							
8/23/2022		6.11					5.61	
8/24/2022				4.39		5.01		
8/25/2022	6.03		6.06		5.74			6.21
1/24/2023			6.05					
1/25/2023	5.63				5.82	5.18		6.25
1/26/2023		6.18		4.3			5.65	
8/22/2023			5.98					
8/23/2023						5.12		
8/24/2023	6.01	6.14		4.48	5.71		5.69	6.24
1/30/2024			5.98				5.73	
1/31/2024	5.83	6.31		4.37				
2/1/2024					5.85	5.14		6.3

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/3/2024 1:41 PM View: Pond BCD - Appendix III

Plant Branch Data: Plant Branch AP

	BRGWA-5S (bg)	BRGWA-5I (bg)	BRGWA-2S (bg)	BRGWA-2I (bg)	BRGWA-12I (bg)	BRGWA-6S (bg)	BRGWA-12S (bg)	BRGWC-30I	BRGWA-23S (bg)
8/31/2016	0.81 (J)	2.7	0.38 (J)	7.5					
9/1/2016					2.7	0.6 (J)	1.7		
9/6/2016								310	38
9/8/2016									
11/15/2016	<1 (J)					0.68 (J)			
11/16/2016		3.4	<1 (J)	6.6	3.6		1.2		
11/17/2016									84
11/18/2016									
11/21/2016								300	
2/20/2017	1 (B-01)	3.9 (B-01)				0.98 (J)			
2/21/2017			1.5	6.1	3		1.1		39
2/22/2017								280	
6/12/2017	0.94 (J)	3.7		5		0.54 (J)			
6/13/2017			0.67 (J)				1.1		35
6/14/2017					2.6			290	
9/26/2017	0.92 (J)	4.1	0.62 (J)	5.4	2.5	0.53 (J)	1.3		89
9/27/2017								260	
2/13/2018	<1	6.6	<1	4.7 (J)		<1			
2/14/2018					2.1 (J)		<1	250	82.2
3/6/2018									
3/15/2018									
5/1/2018									
6/26/2018	0.91 (J)	3.5	0.69 (J)	6.2	2	0.54 (J)	0.84 (J)		84.2
6/27/2018									
6/28/2018								276	
7/31/2018					1.9		0.63 (J)		
8/1/2018									
8/10/2018									
8/23/2018									
9/19/2018									
10/29/2018									
11/28/2018									
12/18/2018	0.68 (J)	4.3	0.72 (J)	5.9	2.1	0.39 (J)	0.66 (J)	440	83.4
12/19/2018									
12/20/2018									
1/16/2019									
1/17/2019									
2/13/2019									
3/19/2019	0.74 (J)	3	0.78 (J)	6 (D)	2.2	0.68 (J)	0.75 (J)		65
3/20/2019								623	
10/15/2019	0.68 (J)	3.8	0.47 (J)	5.2	1.9	0.48 (J)	0.61 (J)		30
10/16/2019									
12/3/2019									
12/4/2019								327	
3/3/2020	0.71 (J)	2.8	0.93 (J)	7.1	1.8	2.5	0.51 (J)		
3/4/2020									38.6
3/5/2020								369	
9/15/2020	<1	1.7	<1	5.9	1.7	<1	<1		41.5
9/16/2020								334	
9/17/2020									
3/1/2021				4.7		0.74 (J)			
3/2/2021	<1	2.2	<1		1.7		0.51 (J)		54

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/3/2024 1:41 PM View: Pond BCD - Appendix III

Plant Branch Data: Plant Branch AP

	BRGWA-5S (bg)	BRGWA-5I (bg)	BRGWA-2S (bg)	BRGWA-2I (bg)	BRGWA-12I (bg)	BRGWA-6S (bg)	BRGWA-12S (bg)	BRGWC-30I	BRGWA-23S (bg)
3/3/2021								371	
3/4/2021									
9/21/2021	<1	2.3			1.7		0.51 (J)		
9/22/2021			<1	5.2		<1			34.6
9/23/2021									
9/27/2021									
9/28/2021								612	
2/1/2022	<1	2	<1	5.4	1.4	<1	<1		36.8
2/2/2022								580	
2/3/2022									
2/4/2022									
8/23/2022	0.521	2.21	0.452	5.66	1.84	0.479	0.636		24.4
8/24/2022								935	
8/25/2022									
1/24/2023	0.66	3.34	0.465	3.58	1.8	0.484	0.628		19.7
1/25/2023									
1/26/2023								1030	
8/23/2023	0.54	1.83	0.526	6.85		0.467			11.3
8/24/2023								1250	
8/25/2023									
8/26/2023									
1/31/2024	0.617	2.74	0.423	2.65		0.456			
2/1/2024								1210	10.4
2/2/2024									
2/3/2024									
2/9/2024									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/3/2024 1:41 PM View: Pond BCD - Appendix III
Plant Branch Data: Plant Branch AP

	BRGWC-27I	BRGWC-25I	BRGWC-32S	BRGWC-29I	BRGWC-45	BRGWC-47	BRGWC-50	BRGWC-52I
8/31/2016								
9/1/2016								
9/6/2016								
9/8/2016	300	280	370	460				
11/15/2016								
11/16/2016								
11/17/2016		200						
11/18/2016	320							
11/21/2016			420	500				
2/20/2017								
2/21/2017	270	360						
2/22/2017			380	570				
6/12/2017								
6/13/2017	230	290						
6/14/2017			400	440				
9/26/2017								
9/27/2017	260	310	400	380				
2/13/2018								
2/14/2018	232	260	383	280				
3/6/2018					111	1560		
3/15/2018							1590	
5/1/2018					112	1465 (D)	1550	
6/26/2018		231						
6/27/2018	205		372	281		1450		
6/28/2018					109		1530	
7/31/2018					107			
8/1/2018						1560	1580	
8/10/2018								183
8/23/2018					108	1470		145
9/19/2018					117	1500		178
10/29/2018					127	1720	1750	157
11/28/2018					133	1730	1780	189
12/18/2018		231		293				
12/19/2018			370			1520	1650	
12/20/2018	200				113			150
1/16/2019							589 (O)	
1/17/2019								157
2/13/2019								169
3/19/2019	199					1100		
3/20/2019		235 (D)	409	278	127		1740	186.5 (D)
10/15/2019		174						
10/16/2019				266		1560	1590	155
12/3/2019					105			
12/4/2019	241		293					
3/3/2020								
3/4/2020	205	165		238		1380	1370	129
3/5/2020			269		106			
9/15/2020		126		241				
9/16/2020	190		255		103	1360		
9/17/2020							1330	165
3/1/2021								
3/2/2021		139			98.3	1360		

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/3/2024 1:41 PM View: Pond BCD - Appendix III
Plant Branch Data: Plant Branch AP

	BRGWC-27I	BRGWC-25I	BRGWC-32S	BRGWC-29I	BRGWC-45	BRGWC-47	BRGWC-50	BRGWC-52I
3/3/2021	172			341				
3/4/2021			185				1250	114
9/21/2021								
9/22/2021								
9/23/2021					97.5	1240		
9/27/2021							1180	
9/28/2021	137	112	189	250				132
2/1/2022								
2/2/2022		117	210		90.1	1170		126
2/3/2022				274			1270	
2/4/2022	172							
8/23/2022		158				1410		
8/24/2022				298			1400	
8/25/2022	176		254		114			142
1/24/2023			247					
1/25/2023	150				102		1290	145
1/26/2023		182		293		1310		
8/23/2023								
8/24/2023			256					
8/25/2023		174				1300	1290	150
8/26/2023	94.5			288	114			
1/31/2024								
2/1/2024			246			1360		
2/2/2024		169		328				145
2/3/2024	155							
2/9/2024					110		1310	

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/3/2024 1:41 PM View: Pond BCD - Appendix III

Plant Branch Data: Plant Branch AP

	BRGWA-5S (bg)	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-12I (bg)	BRGWA-12S (bg)	BRGWC-30I	BRGWA-23S (bg)	BRGWC-32S
8/31/2016	154	151	88	138					
9/1/2016					142	69			
9/6/2016							505	146	
9/8/2016									607
11/15/2016	123								
11/16/2016		69	41	77	100	100			
11/17/2016								211	
11/18/2016									
11/21/2016							515		695
2/20/2017	158			170					
2/21/2017		68	<10		71	37		151	
2/22/2017							504		635
6/12/2017	142	161		132					
6/13/2017			53			84		130	
6/14/2017					140		536		635
9/26/2017	138	167	45	108	149	68		160	
9/27/2017							432		601
2/13/2018	150	165	63	141					
2/14/2018					137	138	448	194	628
3/6/2018									
3/15/2018									
5/1/2018									
6/26/2018	154	188	71	133	142	90		221	
6/27/2018									2280
6/28/2018							494		
7/31/2018					133	83			
8/1/2018									
8/10/2018									
8/23/2018									
9/19/2018									
10/29/2018									
11/28/2018									
12/18/2018	147	145 (X)	78 (X)	138 (X)	135	85	715	208	
12/19/2018									605
12/20/2018									
1/16/2019									
1/17/2019									
2/13/2019									
3/19/2019	146	146.5 (D)	68	130	132 (JX)	82 (JX)		161 (JX)	
3/20/2019							885		564
10/15/2019	144	140	66	175	134	89		124	
10/16/2019									
12/3/2019									
12/4/2019							612		526
3/3/2020	130	155	41	<10	115	72			
3/4/2020								118	
3/5/2020							681		489
9/15/2020	116	116	69	100	95	60		109	
9/16/2020							634		428
9/17/2020									
3/1/2021		98							
3/2/2021	96		43	80	93	43		105	

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/3/2024 1:41 PM View: Pond BCD - Appendix III
Plant Branch Data: Plant Branch AP

	BRGWA-5S (bg)	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-12I (bg)	BRGWA-12S (bg)	BRGWC-30I	BRGWA-23S (bg)	BRGWC-32S
3/3/2021							690		
3/4/2021									350
9/21/2021	104			108	117	56			
9/22/2021		129	66					128	
9/23/2021									
9/27/2021									
9/28/2021							1050		375
2/1/2022	124	126	72	129	114	63		130	
2/2/2022							1110		443
2/3/2022									
2/4/2022									
8/23/2022	101	117	45	107	104	55		103	
8/24/2022							1540		
8/25/2022									437
1/24/2023	104	93	63	124	114	59		102	425
1/25/2023									
1/26/2023							1680		
8/25/2023	73		36				1920	70	412
8/28/2023		81		80					
8/30/2023									
2/6/2024	113	98	54	118			1970	85	418
2/7/2024									
2/8/2024									

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/3/2024 1:41 PM View: Pond BCD - Appendix III
Plant Branch Data: Plant Branch AP

	BRGWC-27I	BRGWC-29I	BRGWC-25I	BRGWA-6S (bg)	BRGWC-45	BRGWC-47	BRGWC-50	BRGWC-52I
8/31/2016								
9/1/2016				299 (o)				
9/6/2016								
9/8/2016	478	654	460					
11/15/2016				41				
11/16/2016								
11/17/2016			611					
11/18/2016	503							
11/21/2016		819						
2/20/2017				133				
2/21/2017	380		497					
2/22/2017		721						
6/12/2017				61				
6/13/2017	354		474					
6/14/2017		661						
9/26/2017				29				
9/27/2017	376	518	457					
2/13/2018				61				
2/14/2018	503 (JX)	487	431					
3/6/2018					346	2200		
3/15/2018							2440	
5/1/2018					374	2080 (D)	2190	
6/26/2018			414	71				
6/27/2018	458 (X)	648 (X)				31 (OX)		
6/28/2018					333		2290	
7/31/2018					393			
8/1/2018						2190	2360	
8/10/2018								344
8/23/2018					350	2160		333
9/19/2018					353	2160		364
10/29/2018					329	2130	2300	334
11/28/2018					358	2320	2300	357
12/18/2018		407	401	70 (X)				
12/19/2018						2060	2190	
12/20/2018	344				322			355
1/16/2019							2270	
1/17/2019								347
2/13/2019								350
3/19/2019	334 (JX)			72		2050 (JX)		
3/20/2019		391	410.5 (D)		302		2280	360 (D)
10/15/2019			380	63				
10/16/2019		2030				2220	2280	346
12/3/2019					362			
12/4/2019	422							
3/3/2020				54				
3/4/2020	326	391	330			2140	2270	351
3/5/2020					297			
9/15/2020		281	272	79				
9/16/2020	301				275	2090		
9/17/2020							1910	329
3/1/2021				39				
3/2/2021			280		264	1680		

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/3/2024 1:41 PM View: Pond BCD - Appendix III

Plant Branch Data: Plant Branch AP

	BRGWC-27I	BRGWC-29I	BRGWC-25I	BRGWA-6S (bg)	BRGWC-45	BRGWC-47	BRGWC-50	BRGWC-52I
3/3/2021	288	515						
3/4/2021							1520	383
9/21/2021								
9/22/2021				62				
9/23/2021					277	1770		
9/27/2021							1800	
9/28/2021	262	457	270					336
2/1/2022				61				
2/2/2022			283		276	1850		160
2/3/2022		419					1850	
2/4/2022	301							
8/23/2022			315	52		2060		
8/24/2022		383					1990	
8/25/2022	311				248			296
1/24/2023				64				
1/25/2023	260				251		2040	276
1/26/2023		419	339			2010		
8/25/2023								
8/28/2023				30				
8/30/2023	309	418	354		242	1970	2180	281
2/6/2024				45		2160		
2/7/2024	299	535	391					
2/8/2024					255		1970	303

FIGURE E.

Appendix III - Trend Test Summary - Significant Results

Plant Branch Data: Plant Branch AP Printed 4/3/2024, 1:49 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	BRGWA-2I (bg)	-0.0007276	-90	-74	Yes	19	31.58	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWC-29I	-0.1003	-84	-74	Yes	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWC-47	0.0367	92	81	Yes	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWA-23S (bg)	-1.347	-108	-74	Yes	19	5.263	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWA-2S (bg)	0.1738	81	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWA-6S (bg)	0.1302	96	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWC-27I	-2.727	-79	-74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWC-30I	42.35	148	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWC-45	-1.839	-97	-81	Yes	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWA-12I (bg)	-0.1919	-99	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWA-23S (bg)	-0.2086	-111	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWA-5I (bg)	-0.1426	-86	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWA-5S (bg)	-0.07103	-87	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWC-45	-7.588	-120	-81	Yes	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWC-50	-1.953	-123	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWC-52I	-0.194	-86	-74	Yes	19	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWA-2I (bg)	-0.07041	-101	-87	Yes	21	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWA-2S (bg)	-0.03315	-107	-87	Yes	21	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWA-5S (bg)	-0.05271	-116	-87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-12I (bg)	-0.2108	-113	-68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-12S (bg)	-0.126	-88	-68	Yes	18	16.67	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-23S (bg)	-9.199	-93	-74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-25I	-22.87	-93	-74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-27I	-21.39	-133	-74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-30I	99.95	109	74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-32S	-27.29	-101	-74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-50	-74.11	-69	-68	Yes	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWA-23S (bg)	-12.44	-102	-74	Yes	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWA-5S (bg)	-7.648	-101	-74	Yes	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-25I	-31.49	-103	-74	Yes	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-27I	-22.83	-113	-74	Yes	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-30I	170.8	125	74	Yes	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-32S	-38.3	-118	-74	Yes	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-45	-22.13	-130	-81	Yes	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-50	-66.21	-89	-74	Yes	19	0	n/a	n/a	0.01	NP

Appendix III - Trend Test Summary - All Results

Plant Branch Data: Plant Branch AP Printed 4/3/2024, 1:49 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	BRGWA-12I (bg)	-0.00006578	-7	-63	No	17	17.65	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWA-12S (bg)	0	-7	-63	No	17	76.47	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWA-23S (bg)	0.001174	18	74	No	19	10.53	n/a	n/a	0.01	NP
Boron (mg/L)	**BRGWA-2I (bg)**	**-0.0007276**	**-90**	**-74**	**Yes**	**19**	**31.58**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	BRGWA-2S (bg)	0	11	74	No	19	84.21	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWA-5I (bg)	0	-4	-74	No	19	73.68	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWA-5S (bg)	0	-12	-74	No	19	57.89	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWA-6S (bg)	0	-12	-74	No	19	73.68	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWC-25I	-0.02411	-24	-74	No	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWC-27I	-0.06637	-66	-81	No	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	**BRGWC-29I**	**-0.1003**	**-84**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	BRGWC-30I	0.06473	64	81	No	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWC-32S	-0.05043	-61	-81	No	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	**BRGWC-47**	**0.0367**	**92**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	BRGWC-50	0.009387	58	74	No	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWC-52I	0.04929	53	74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWA-12I (bg)	-0.2348	-12	-68	No	18	5.556	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWA-12S (bg)	0.1273	28	68	No	18	5.556	n/a	n/a	0.01	NP
Calcium (mg/L)	**BRGWA-23S (bg)**	**-1.347**	**-108**	**-74**	**Yes**	**19**	**5.263**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	BRGWA-2I (bg)	0.2667	30	74	No	19	5.263	n/a	n/a	0.01	NP
Calcium (mg/L)	**BRGWA-2S (bg)**	**0.1738**	**81**	**74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	BRGWA-5I (bg)	0.1543	37	74	No	19	5.263	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWA-5S (bg)	-0.4984	-64	-74	No	19	5.263	n/a	n/a	0.01	NP
Calcium (mg/L)	**BRGWA-6S (bg)**	**0.1302**	**96**	**74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	BRGWC-25I	-2.976	-59	-74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**BRGWC-27I**	**-2.727**	**-79**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	BRGWC-29I	-2.999	-39	-74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**BRGWC-30I**	**42.35**	**148**	**74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	BRGWC-32S	-3.032	-71	-74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**BRGWC-45**	**-1.839**	**-97**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	BRGWC-47	1.74	22	81	No	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWC-50	-4.717	-64	-74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWC-52I	-0.4566	-19	-68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**BRGWA-12I (bg)**	**-0.1919**	**-99**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	BRGWA-12S (bg)	0.06545	54	68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**BRGWA-23S (bg)**	**-0.2086**	**-111**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	BRGWA-2I (bg)	-0.02052	-27	-74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWA-2S (bg)	0	13	74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**BRGWA-5I (bg)**	**-0.1426**	**-86**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**BRGWA-5S (bg)**	**-0.07103**	**-87**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	BRGWA-6S (bg)	0	-3	-74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWC-25I	-0.3172	-36	-74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWC-29I	-0.1197	-41	-74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**BRGWC-45**	**-7.588**	**-120**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**BRGWC-50**	**-1.953**	**-123**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**BRGWC-52I**	**-0.194**	**-86**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (S.U.)	BRGWA-12I (bg)	-0.02367	-36	-87	No	21	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWA-12S (bg)	-0.01755	-49	-81	No	20	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWA-23S (bg)	-0.02403	-47	-87	No	21	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	**BRGWA-2I (bg)**	**-0.07041**	**-101**	**-87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (S.U.)	**BRGWA-2S (bg)**	**-0.03315**	**-107**	**-87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (S.U.)	BRGWA-5I (bg)	-0.0131	-41	-87	No	21	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	**BRGWA-5S (bg)**	**-0.05271**	**-116**	**-87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (S.U.)	BRGWA-6S (bg)	-0.01695	-28	-81	No	20	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWC-29I	-0.012	-34	-87	No	21	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWC-50	-0.03335	-70	-92	No	22	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**BRGWA-12I (bg)**	**-0.2108**	**-113**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**BRGWA-12S (bg)**	**-0.126**	**-88**	**-68**	**Yes**	**18**	**16.67**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**BRGWA-23S (bg)**	**-9.199**	**-93**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	BRGWA-2I (bg)	-0.2264	-53	-74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-2S (bg)	-0.01093	-20	-74	No	19	31.58	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-5I (bg)	-0.2385	-67	-74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-5S (bg)	-0.03629	-55	-74	No	19	31.58	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-6S (bg)	-0.01177	-27	-74	No	19	21.05	n/a	n/a	0.01	NP
Sulfate (mg/L)	**BRGWC-25I**	**-22.87**	**-93**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**BRGWC-27I**	**-21.39**	**-133**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	BRGWC-29I	-20.47	-56	-74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**BRGWC-30I**	**99.95**	**109**	**74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**

Appendix III - Trend Test Summary - All Results

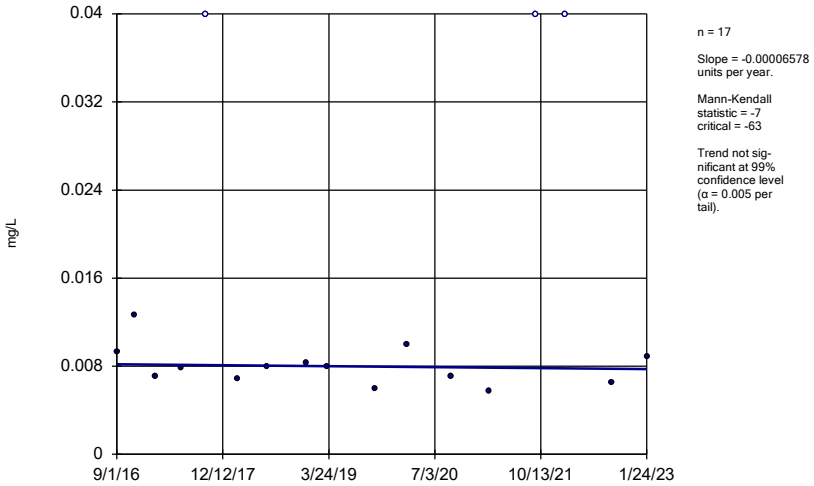
Plant Branch Data: Plant Branch AP Printed 4/3/2024, 1:49 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Sulfate (mg/L)	**BRGWC-32S**	**-27.29**	**-101**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	BRGWC-45	-2.459	-46	-81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-47	-43.58	-80	-81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**BRGWC-50**	**-74.11**	**-69**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	BRGWC-52I	-6.139	-62	-74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWA-12I (bg)	-5.117	-61	-68	No	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWA-12S (bg)	-5.699	-57	-68	No	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	**BRGWA-23S (bg)**	**-12.44**	**-102**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	BRGWA-2I (bg)	-8.655	-62	-74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWA-2S (bg)	-0.738	-7	-74	No	19	5.263	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWA-5I (bg)	-3.436	-46	-74	No	19	5.263	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	**BRGWA-5S (bg)**	**-7.648**	**-101**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	BRGWA-6S (bg)	-2.289	-26	-68	No	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	**BRGWC-25I**	**-31.49**	**-103**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**BRGWC-27I**	**-22.83**	**-113**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	BRGWC-29I	-43.05	-69	-74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	**BRGWC-30I**	**170.8**	**125**	**74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**BRGWC-32S**	**-38.3**	**-118**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**BRGWC-45**	**-22.13**	**-130**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	BRGWC-47	-34.43	-67	-74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	**BRGWC-50**	**-66.21**	**-89**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	BRGWC-52I	-10.38	-61	-74	No	19	0	n/a	n/a	0.01	NP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-12I (bg)



n = 17

Slope = -0.00006578 units per year.

Mann-Kendall statistic = -7
critical = -63

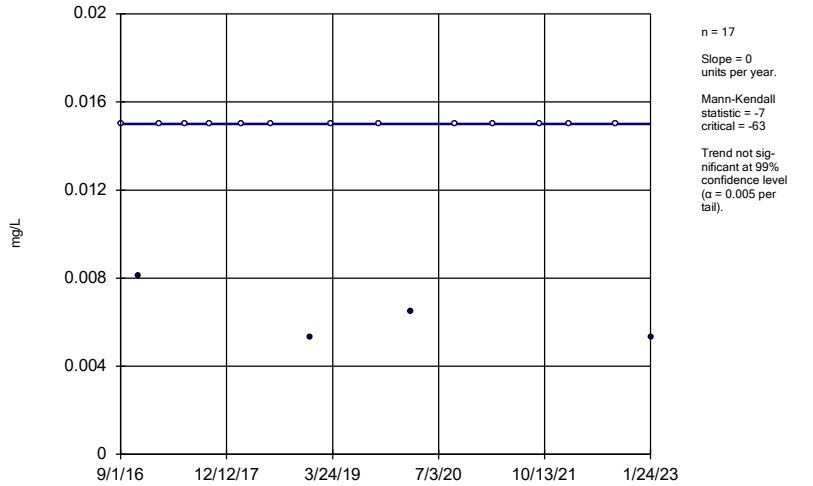
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/3/2024 1:46 PM View: Pond BCD - Appendix III Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-12S (bg)



n = 17

Slope = 0 units per year.

Mann-Kendall statistic = -7
critical = -63

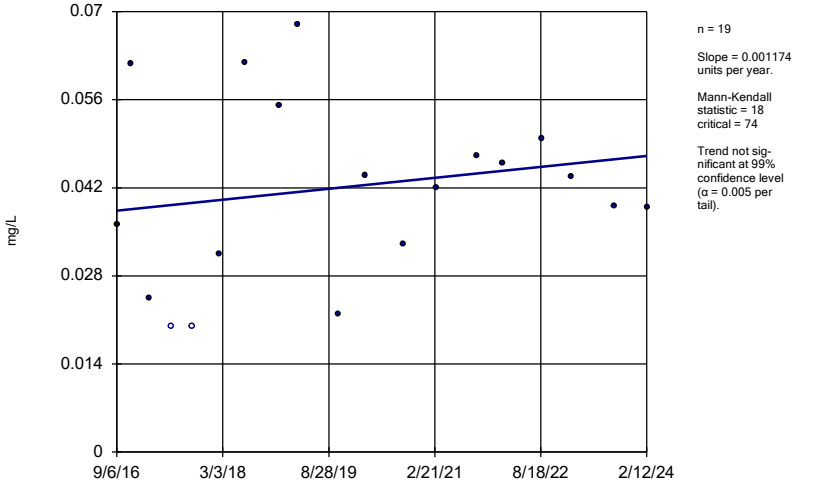
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/3/2024 1:46 PM View: Pond BCD - Appendix III Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-23S (bg)



n = 19

Slope = 0.001174 units per year.

Mann-Kendall statistic = 18
critical = 74

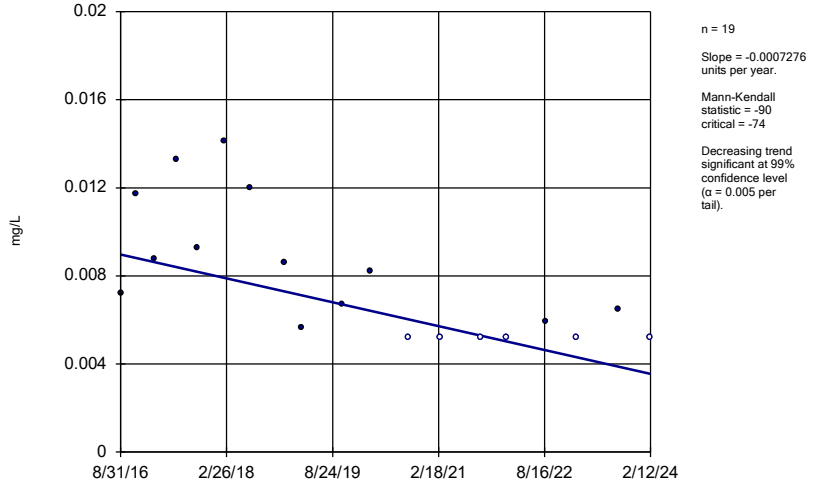
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/3/2024 1:46 PM View: Pond BCD - Appendix III Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-2I (bg)



n = 19

Slope = -0.0007276 units per year.

Mann-Kendall statistic = -90
critical = -74

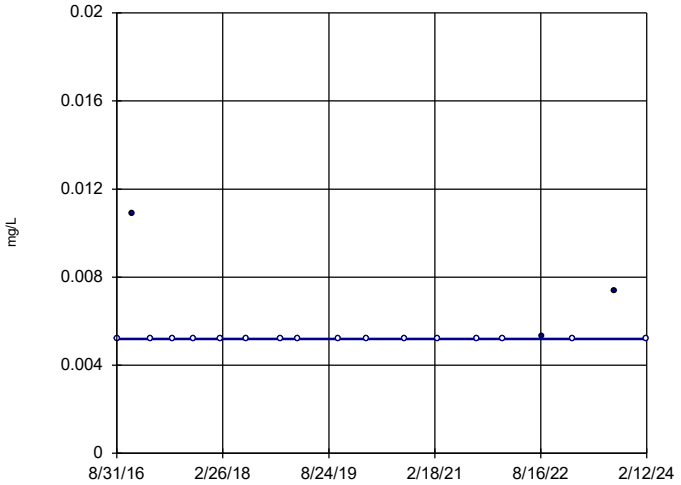
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/3/2024 1:46 PM View: Pond BCD - Appendix III Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-2S (bg)



n = 19

Slope = 0 units per year.

Mann-Kendall statistic = 11
critical = 74

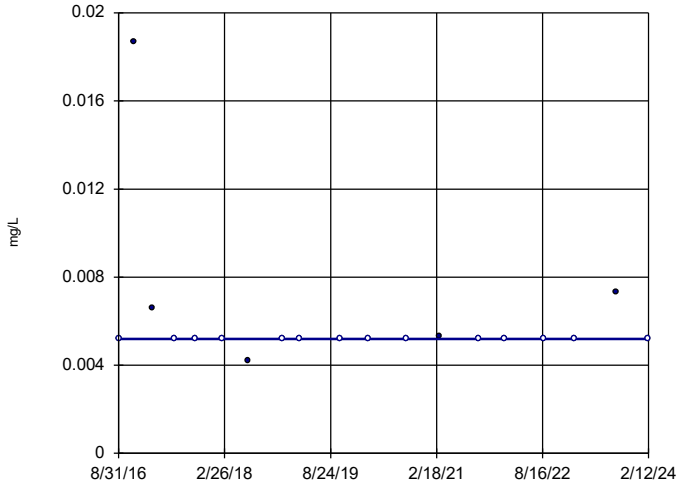
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/3/2024 1:46 PM View: Pond BCD - Appendix III Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-5I (bg)



n = 19

Slope = 0 units per year.

Mann-Kendall statistic = -4
critical = -74

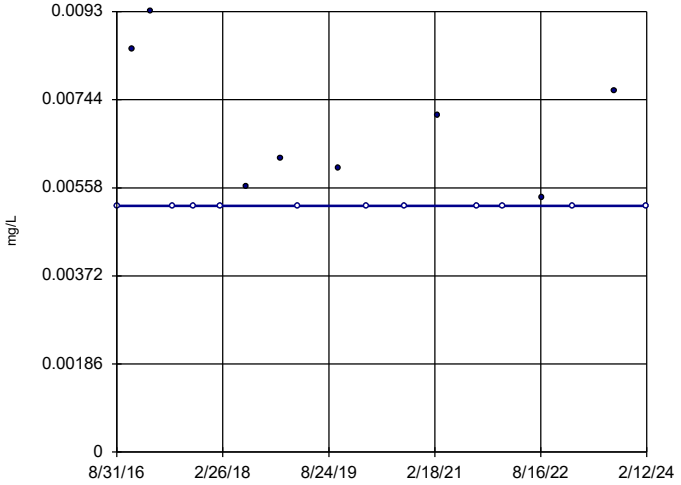
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/3/2024 1:46 PM View: Pond BCD - Appendix III Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-5S (bg)



n = 19

Slope = 0 units per year.

Mann-Kendall statistic = -12
critical = -74

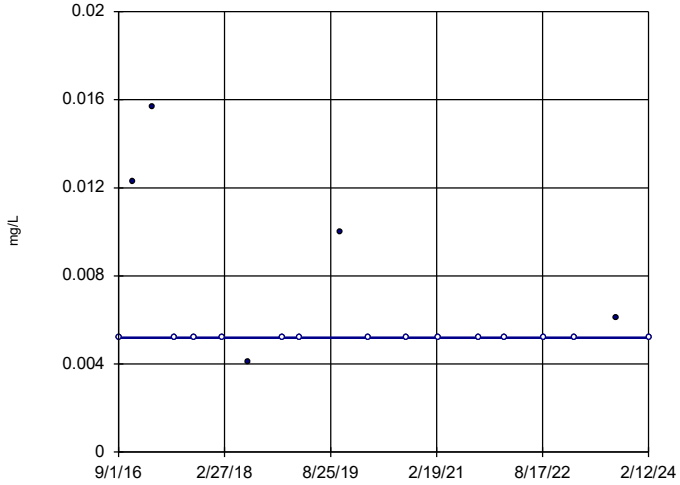
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/3/2024 1:46 PM View: Pond BCD - Appendix III Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-6S (bg)



n = 19

Slope = 0 units per year.

Mann-Kendall statistic = -12
critical = -74

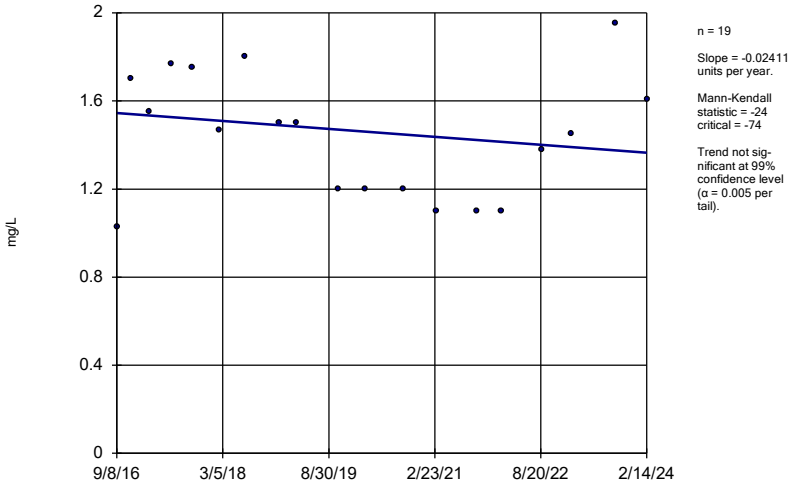
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/3/2024 1:46 PM View: Pond BCD - Appendix III Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWC-25I



n = 19

Slope = -0.02411 units per year.

Mann-Kendall statistic = -24
critical = -74

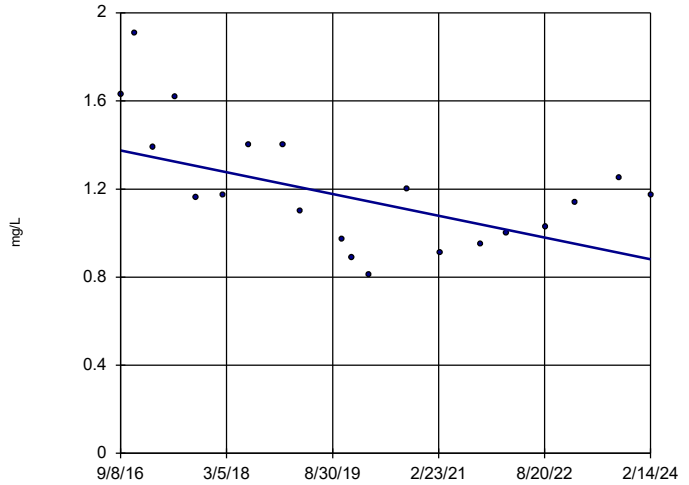
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/3/2024 1:46 PM View: Pond BCD - Appendix III Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWC-27I



n = 20

Slope = -0.06637 units per year.

Mann-Kendall statistic = -66
critical = -81

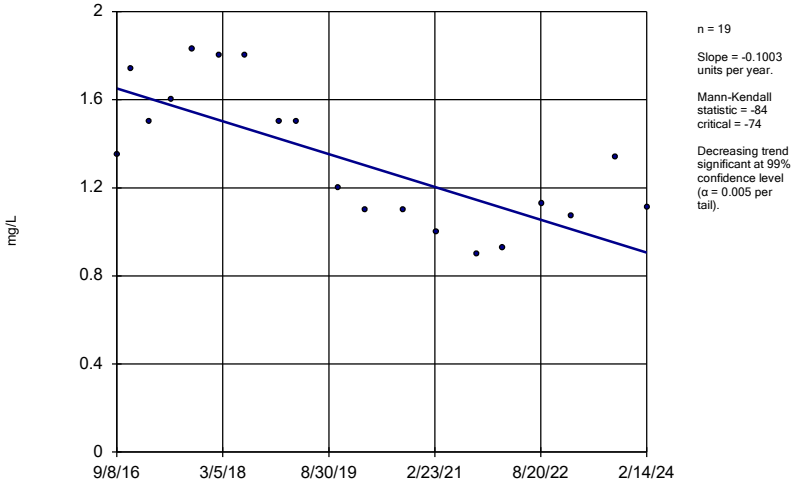
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/3/2024 1:46 PM View: Pond BCD - Appendix III Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWC-29I



n = 19

Slope = -0.1003 units per year.

Mann-Kendall statistic = -84
critical = -74

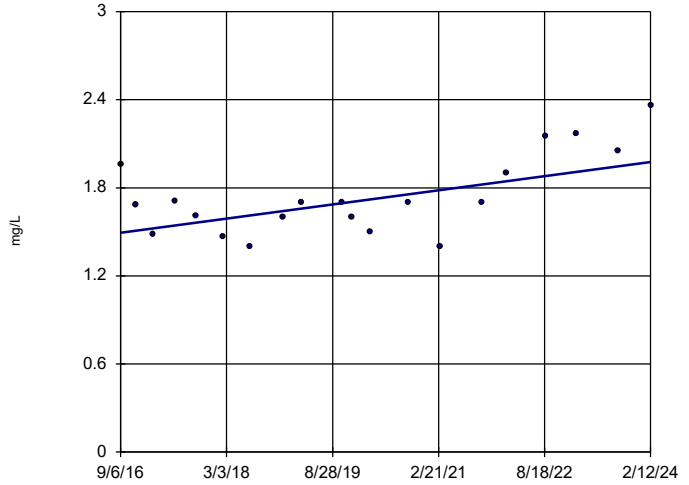
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/3/2024 1:46 PM View: Pond BCD - Appendix III Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWC-30I



n = 20

Slope = 0.06473 units per year.

Mann-Kendall statistic = 64
critical = 81

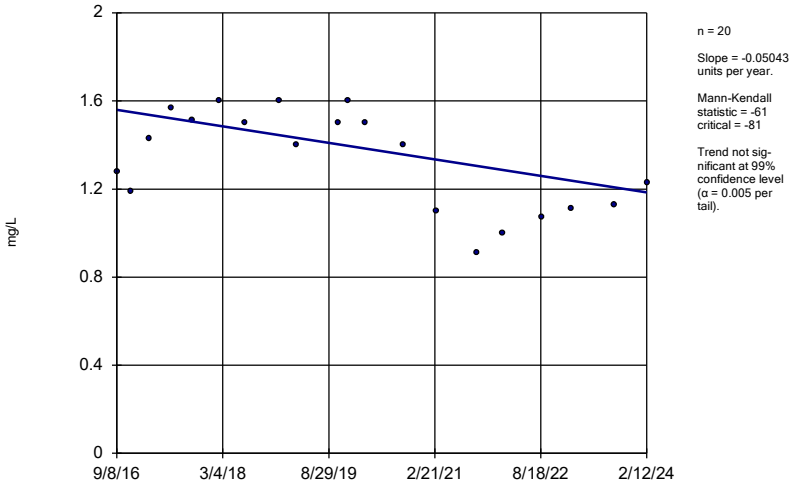
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/3/2024 1:46 PM View: Pond BCD - Appendix III Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWC-32S



n = 20

Slope = -0.05043 units per year.

Mann-Kendall statistic = -61
critical = -81

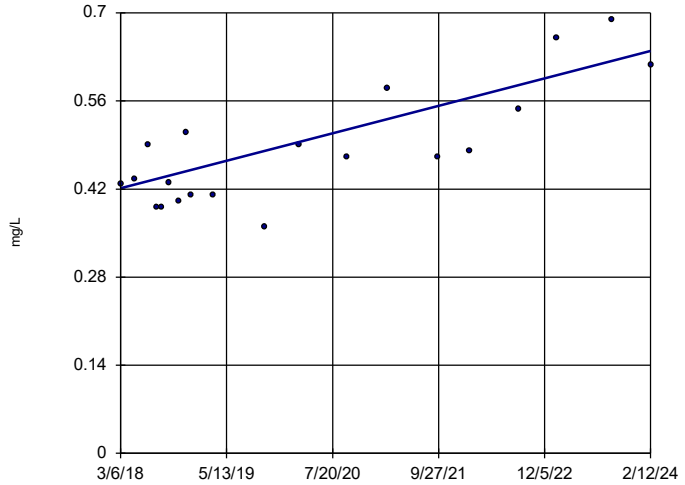
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/3/2024 1:46 PM View: Pond BCD - Appendix III Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWC-47



n = 20

Slope = 0.0367 units per year.

Mann-Kendall statistic = 92
critical = 81

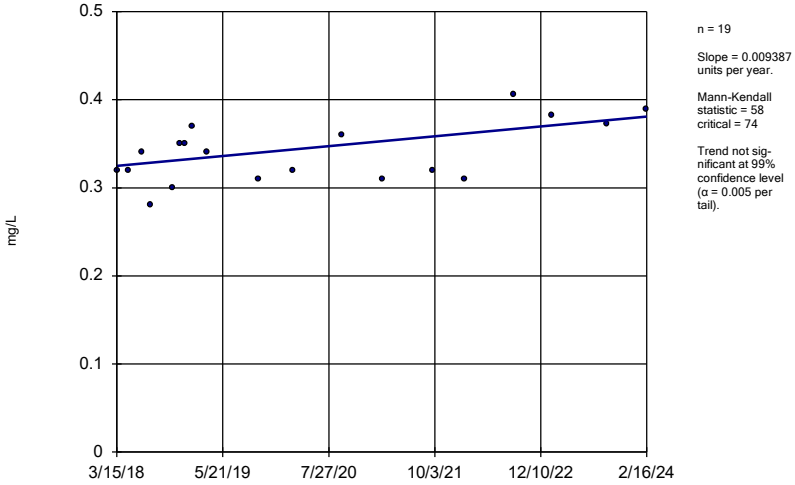
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/3/2024 1:46 PM View: Pond BCD - Appendix III Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWC-50



n = 19

Slope = 0.009387 units per year.

Mann-Kendall statistic = 58
critical = 74

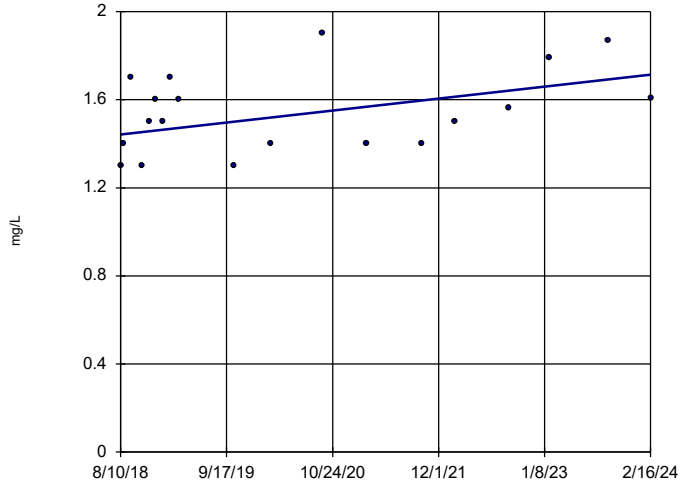
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/3/2024 1:46 PM View: Pond BCD - Appendix III Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWC-52I



n = 19

Slope = 0.04929 units per year.

Mann-Kendall statistic = 53
critical = 74

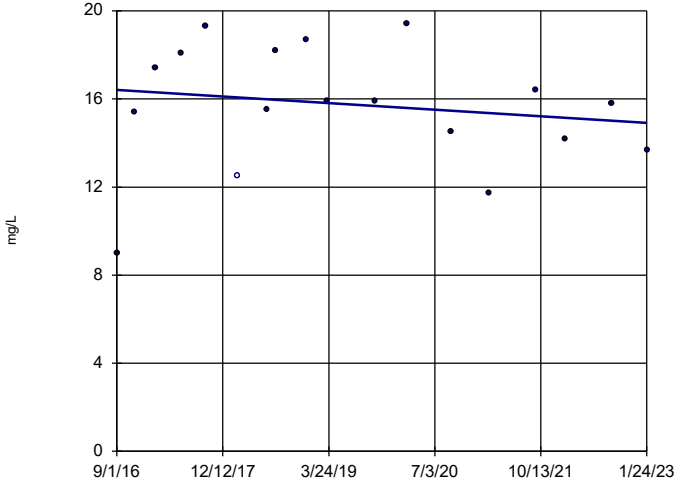
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/3/2024 1:46 PM View: Pond BCD - Appendix III Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-12I (bg)



n = 18

Slope = -0.2348 units per year.

Mann-Kendall statistic = -12
critical = -68

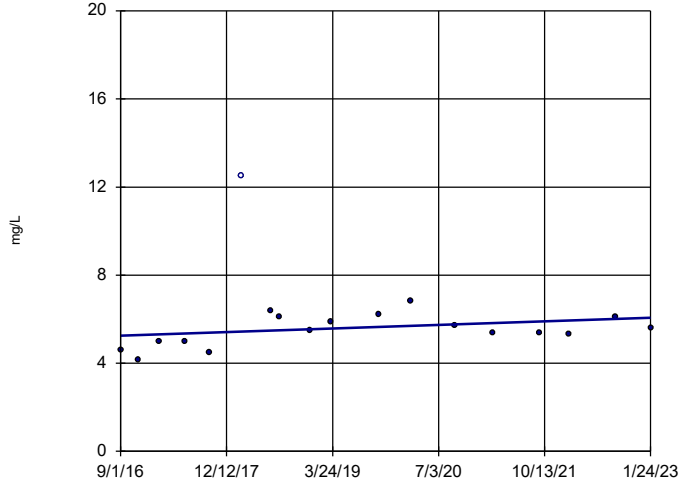
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/3/2024 1:46 PM View: Pond BCD - Appendix III Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-12S (bg)



n = 18

Slope = 0.1273 units per year.

Mann-Kendall statistic = 28
critical = 68

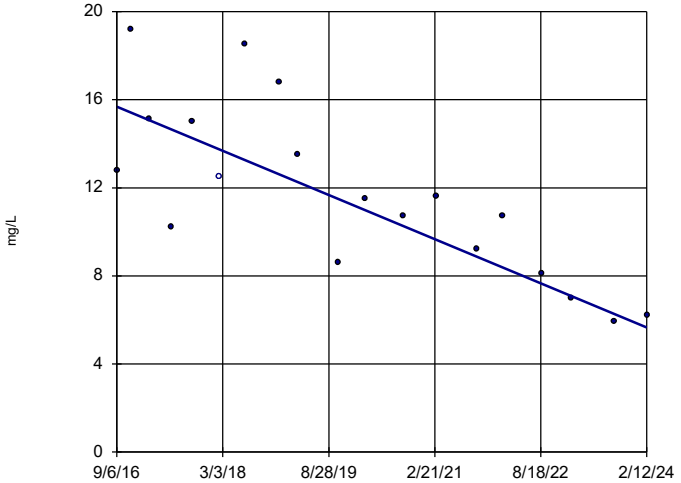
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/3/2024 1:46 PM View: Pond BCD - Appendix III Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-23S (bg)



n = 19

Slope = -1.347 units per year.

Mann-Kendall statistic = -108
critical = -74

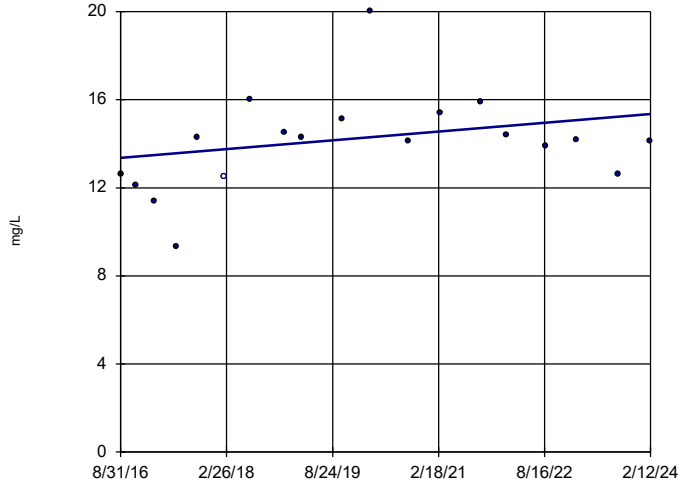
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/3/2024 1:46 PM View: Pond BCD - Appendix III Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-2I (bg)



n = 19

Slope = 0.2667 units per year.

Mann-Kendall statistic = 30
critical = 74

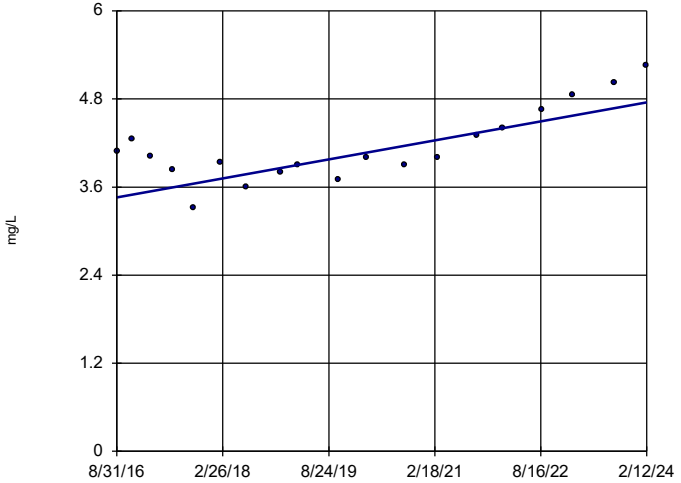
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/3/2024 1:46 PM View: Pond BCD - Appendix III Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWA-2S (bg)



n = 19

Slope = 0.1738 units per year.

Mann-Kendall statistic = 81 critical = 74

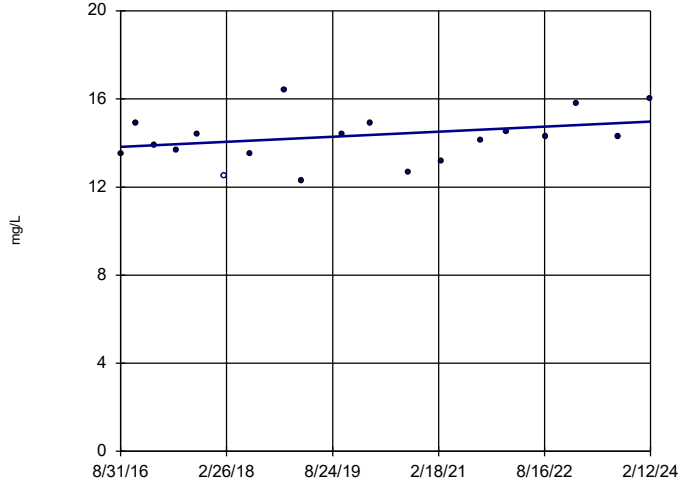
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/3/2024 1:46 PM View: Pond BCD - Appendix III Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-5I (bg)



n = 19

Slope = 0.1543 units per year.

Mann-Kendall statistic = 37 critical = 74

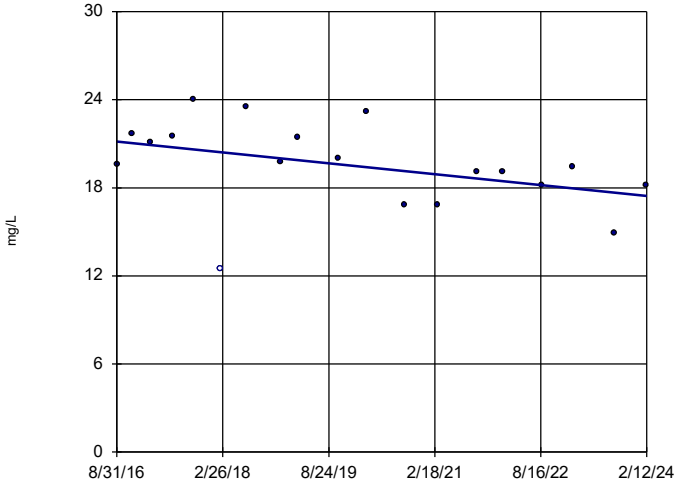
Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/3/2024 1:46 PM View: Pond BCD - Appendix III Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-5S (bg)



n = 19

Slope = -0.4984 units per year.

Mann-Kendall statistic = -64 critical = -74

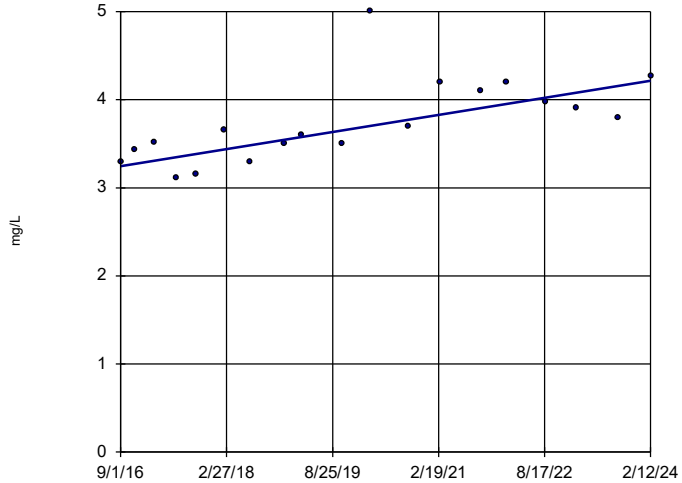
Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/3/2024 1:46 PM View: Pond BCD - Appendix III Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWA-6S (bg)



n = 19

Slope = 0.1302 units per year.

Mann-Kendall statistic = 96 critical = 74

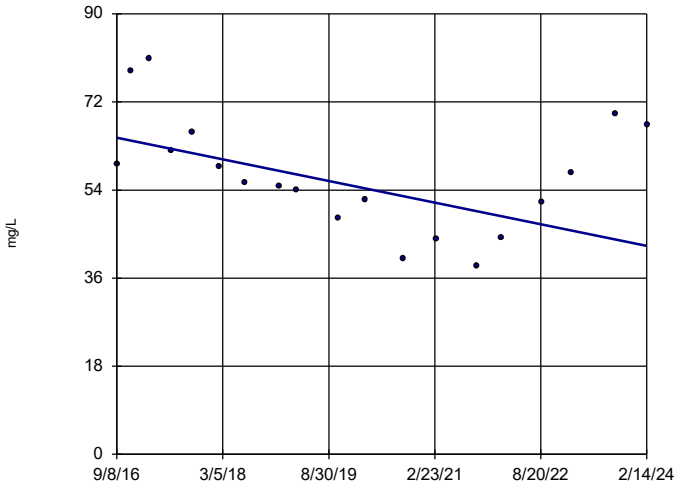
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/3/2024 1:46 PM View: Pond BCD - Appendix III Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWC-25I



n = 19

Slope = -2.976 units per year.

Mann-Kendall statistic = -59 critical = -74

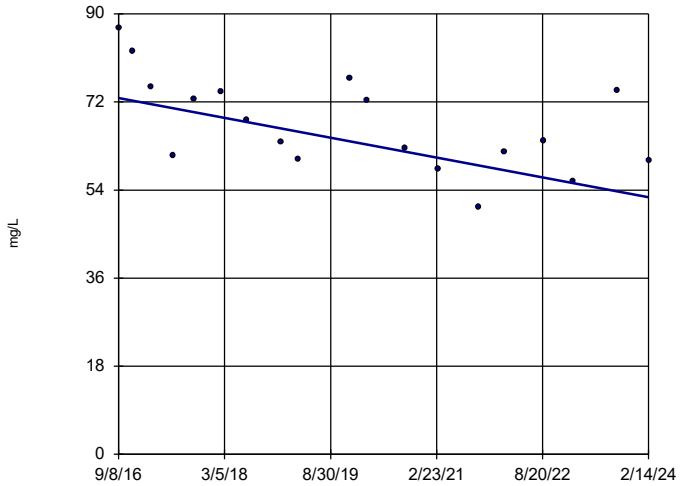
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/3/2024 1:46 PM View: Pond BCD - Appendix III Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWC-27I



n = 19

Slope = -2.727 units per year.

Mann-Kendall statistic = -79 critical = -74

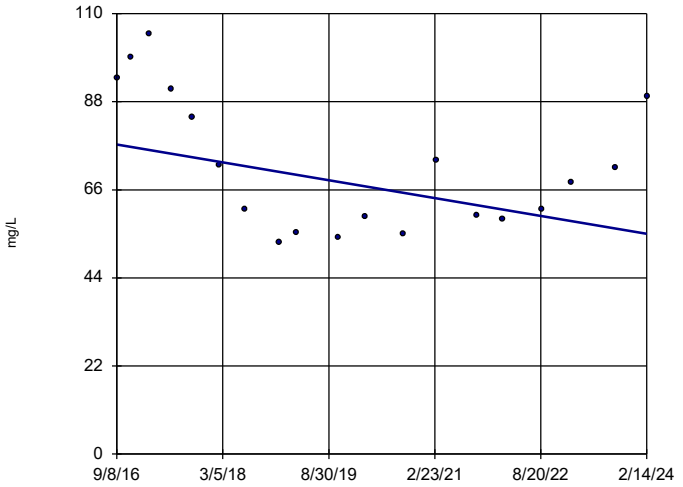
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/3/2024 1:46 PM View: Pond BCD - Appendix III Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWC-29I



n = 19

Slope = -2.999 units per year.

Mann-Kendall statistic = -39 critical = -74

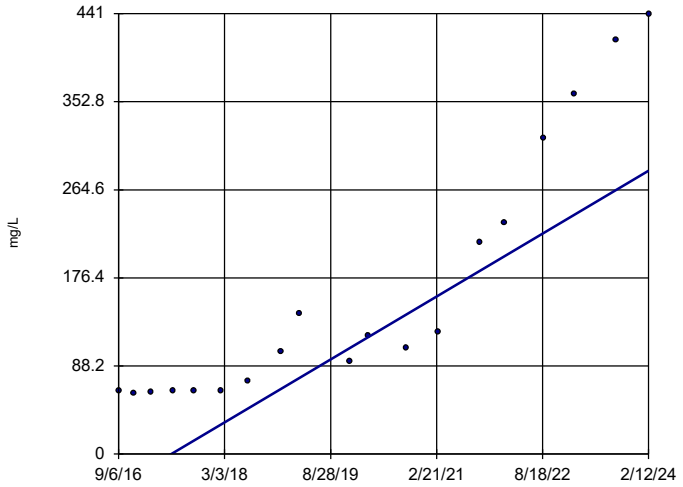
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/3/2024 1:46 PM View: Pond BCD - Appendix III Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWC-30I



n = 19

Slope = 42.35 units per year.

Mann-Kendall statistic = 148 critical = 74

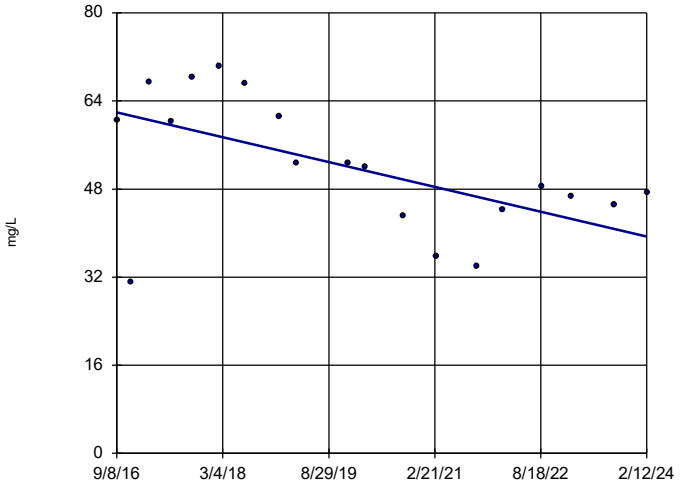
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/3/2024 1:46 PM View: Pond BCD - Appendix III Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWC-32S



n = 19

Slope = -3.032 units per year.

Mann-Kendall statistic = -71 critical = -74

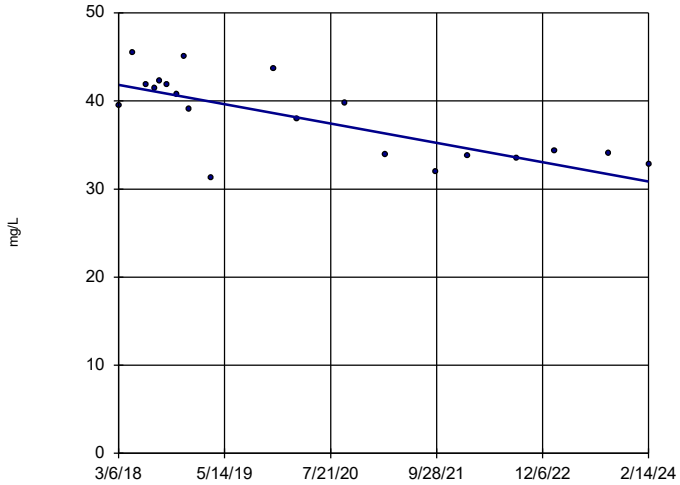
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/3/2024 1:46 PM View: Pond BCD - Appendix III Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWC-45



n = 20

Slope = -1.839 units per year.

Mann-Kendall statistic = -97 critical = -81

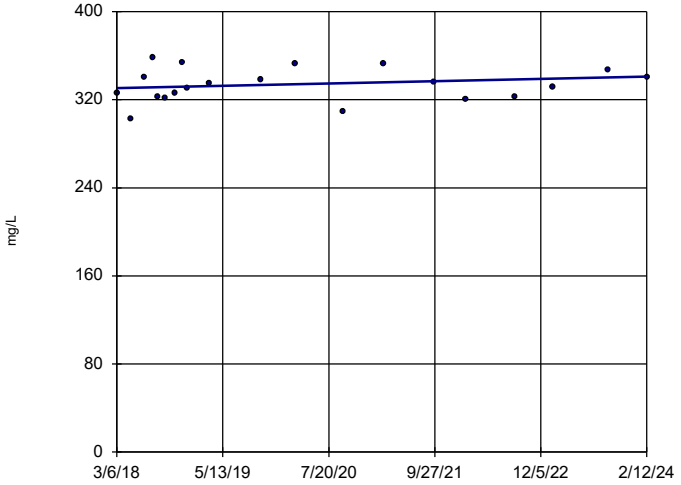
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/3/2024 1:46 PM View: Pond BCD - Appendix III Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWC-47



n = 20

Slope = 1.74 units per year.

Mann-Kendall statistic = 22 critical = 81

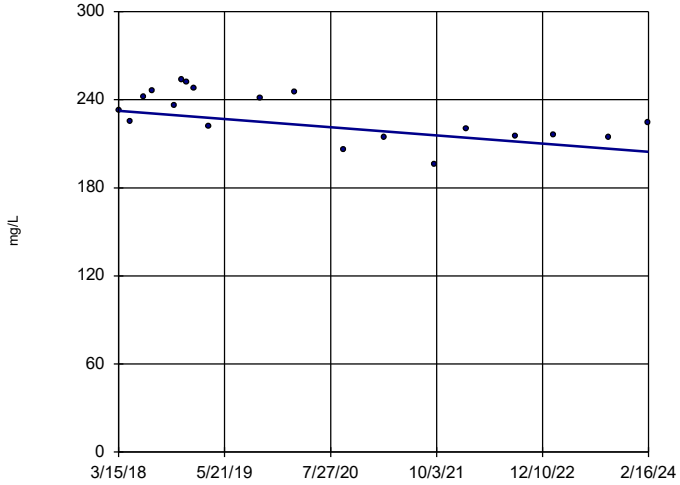
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/3/2024 1:46 PM View: Pond BCD - Appendix III Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWC-50



n = 19

Slope = -4.717 units per year.

Mann-Kendall statistic = -64 critical = -74

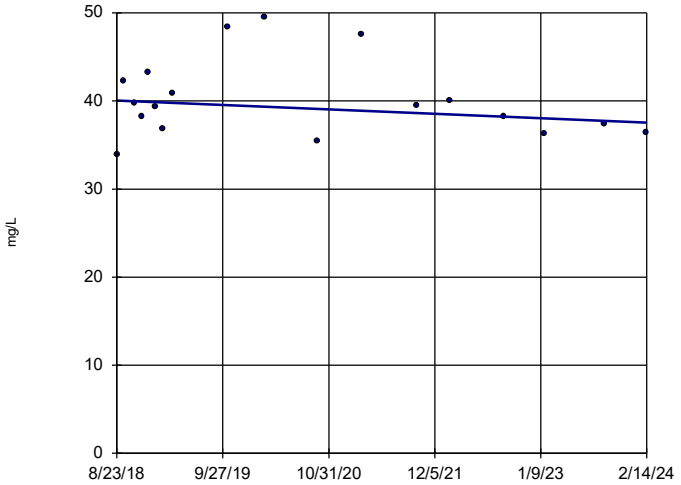
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/3/2024 1:46 PM View: Pond BCD - Appendix III Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWC-52I



n = 18

Slope = -0.4566 units per year.

Mann-Kendall statistic = -19 critical = -68

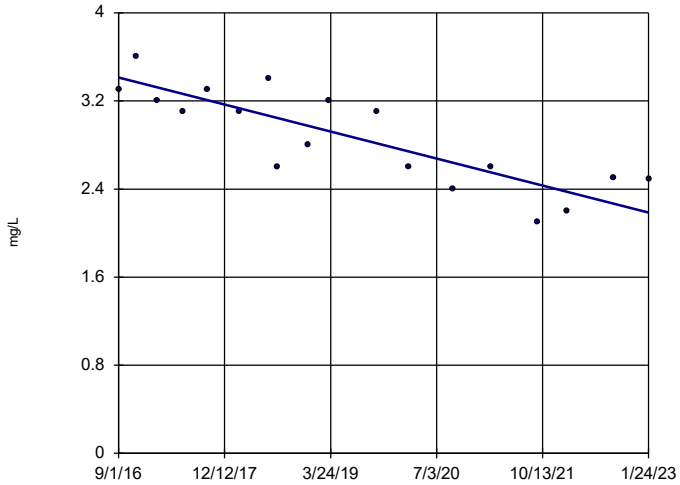
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/3/2024 1:46 PM View: Pond BCD - Appendix III Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWA-12I (bg)



n = 18

Slope = -0.1919 units per year.

Mann-Kendall statistic = -99 critical = -68

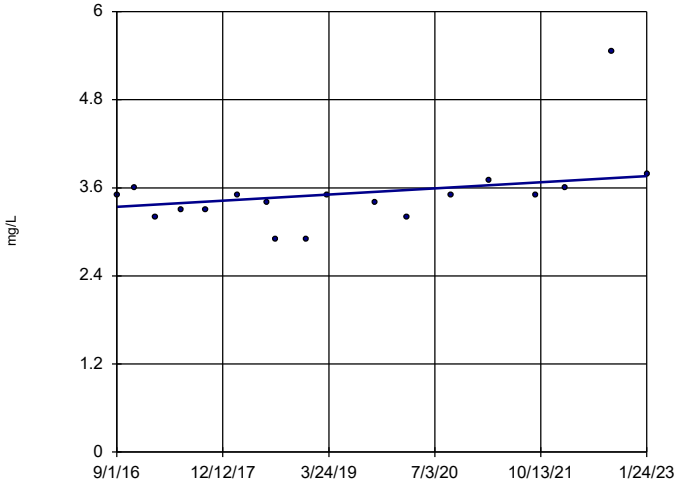
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 4/3/2024 1:46 PM View: Pond BCD - Appendix III Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWA-12S (bg)



n = 18

Slope = 0.06545 units per year.

Mann-Kendall statistic = 54 critical = 68

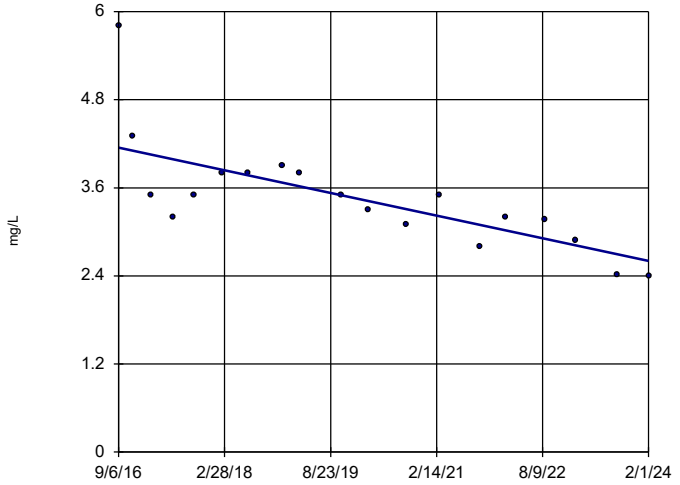
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 4/3/2024 1:46 PM View: Pond BCD - Appendix III Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWA-23S (bg)



n = 19

Slope = -0.2086 units per year.

Mann-Kendall statistic = -111 critical = -74

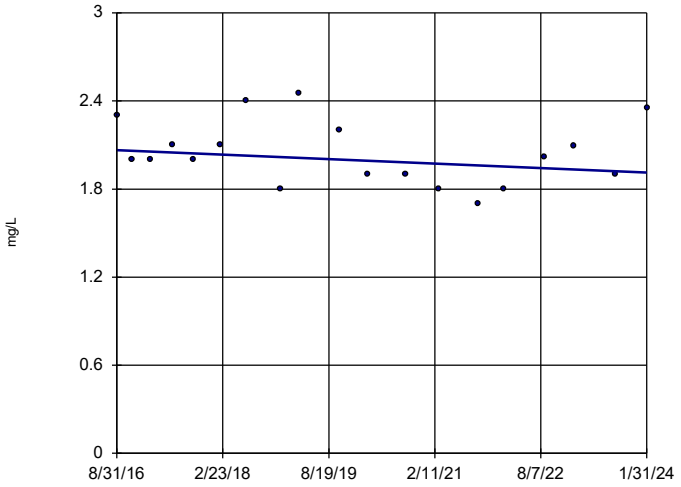
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 4/3/2024 1:46 PM View: Pond BCD - Appendix III Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWA-2I (bg)



n = 19

Slope = -0.02052 units per year.

Mann-Kendall statistic = -27
critical = -74

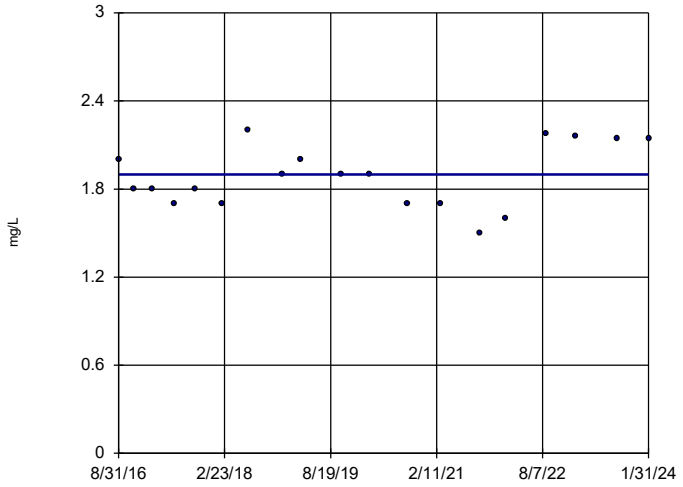
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 4/3/2024 1:46 PM View: Pond BCD - Appendix III Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWA-2S (bg)



n = 19

Slope = 0 units per year.

Mann-Kendall statistic = 13
critical = 74

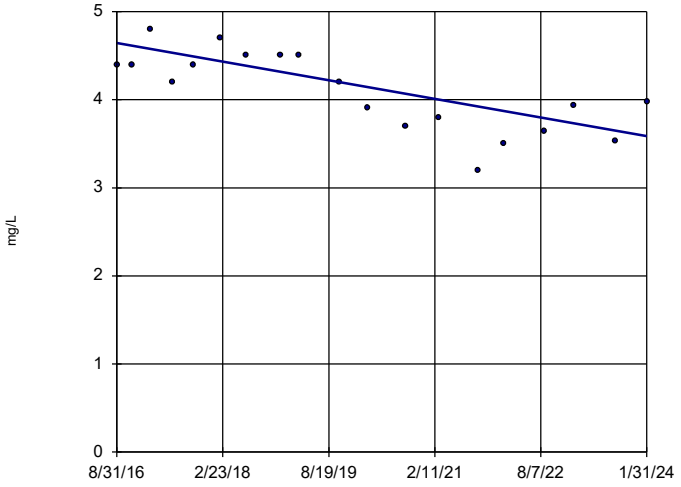
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 4/3/2024 1:46 PM View: Pond BCD - Appendix III Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWA-5I (bg)



n = 19

Slope = -0.1426 units per year.

Mann-Kendall statistic = -86
critical = -74

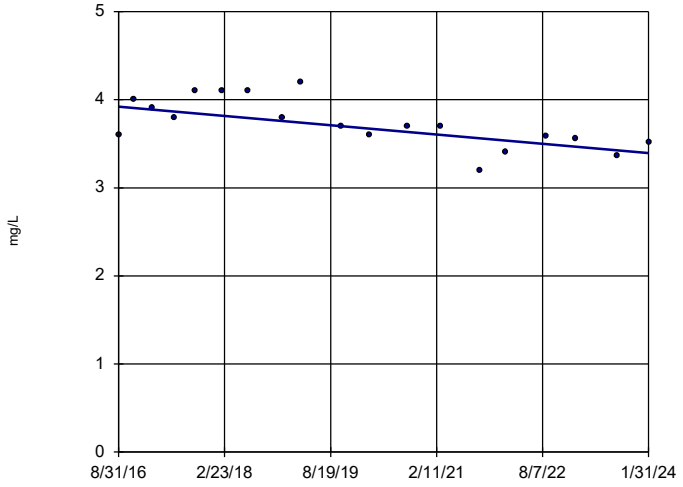
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 4/3/2024 1:46 PM View: Pond BCD - Appendix III Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWA-5S (bg)



n = 19

Slope = -0.07103 units per year.

Mann-Kendall statistic = -87
critical = -74

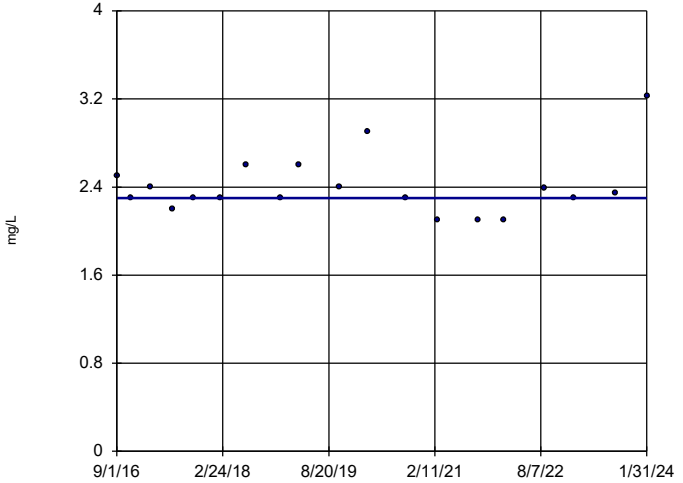
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 4/3/2024 1:46 PM View: Pond BCD - Appendix III Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWA-6S (bg)



n = 19

Slope = 0 units per year.

Mann-Kendall statistic = -3 critical = -74

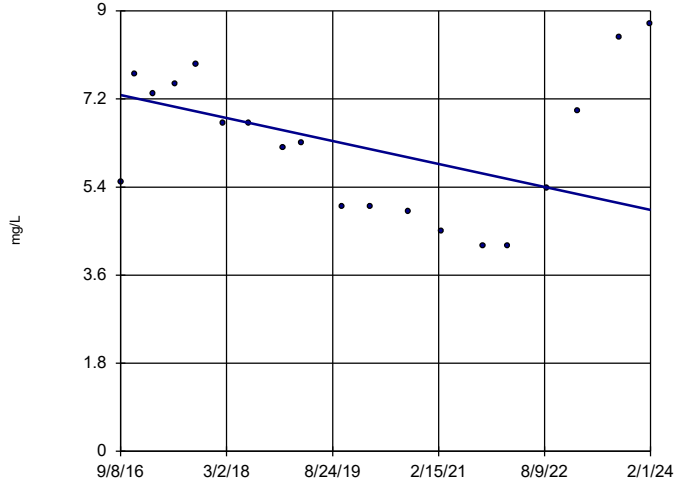
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 4/3/2024 1:46 PM View: Pond BCD - Appendix III Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWC-25I



n = 19

Slope = -0.3172 units per year.

Mann-Kendall statistic = -36 critical = -74

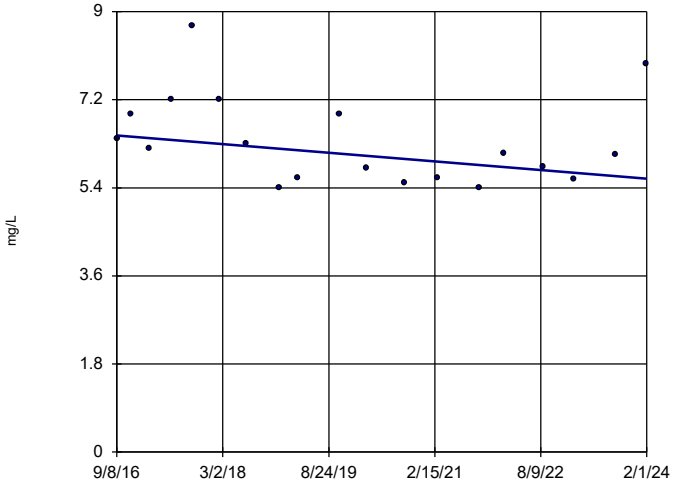
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 4/3/2024 1:46 PM View: Pond BCD - Appendix III Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWC-29I



n = 19

Slope = -0.1197 units per year.

Mann-Kendall statistic = -41 critical = -74

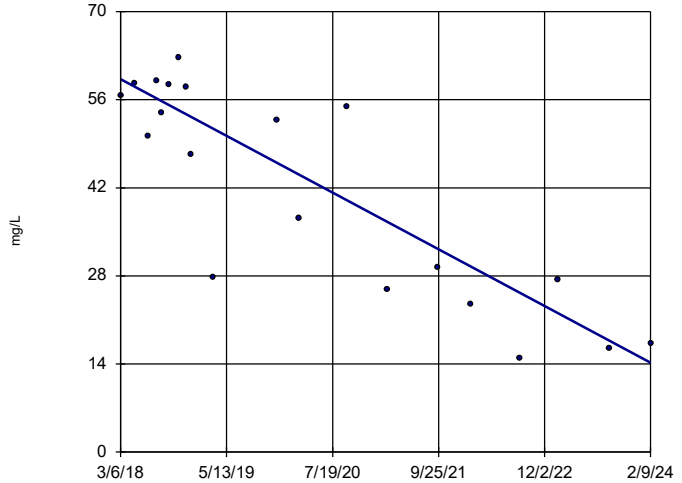
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 4/3/2024 1:46 PM View: Pond BCD - Appendix III Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWC-45



n = 20

Slope = -7.588 units per year.

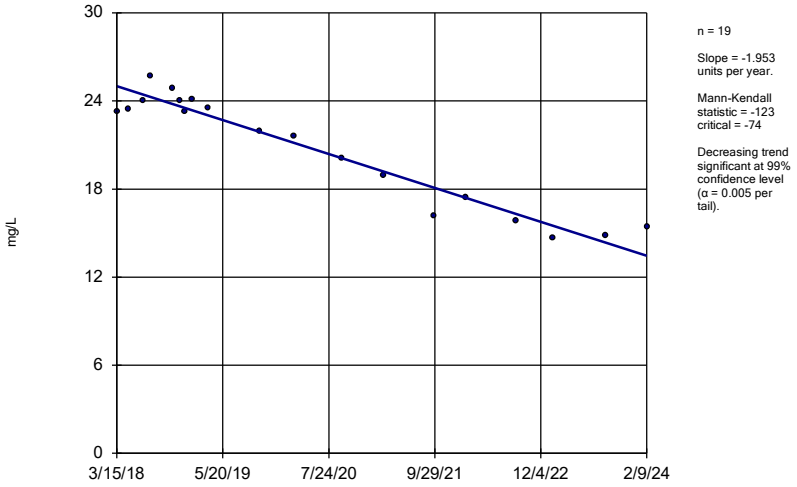
Mann-Kendall statistic = -120 critical = -81

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 4/3/2024 1:46 PM View: Pond BCD - Appendix III Trend Tests
Plant Branch Data: Plant Branch AP

Sen's Slope Estimator

BRGWC-50



n = 19

Slope = -1.953 units per year.

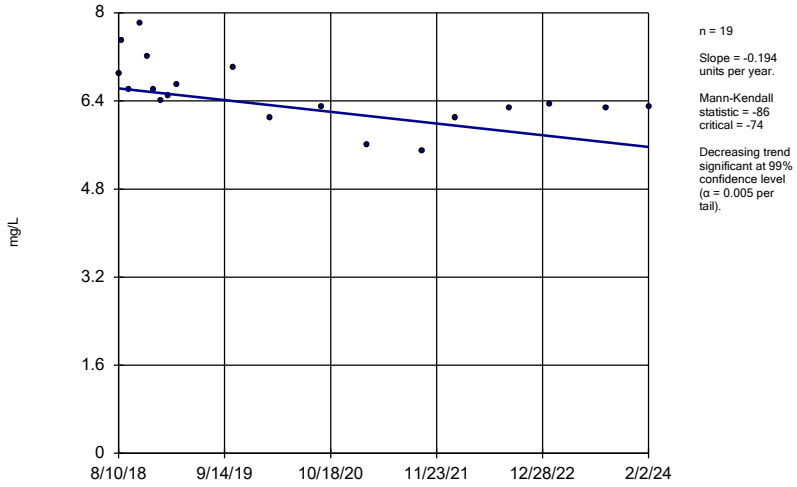
Mann-Kendall statistic = -123 critical = -74

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 4/3/2024 1:46 PM View: Pond BCD - Appendix III Trend Tests
Plant Branch Data: Plant Branch AP

Sen's Slope Estimator

BRGWC-52I



n = 19

Slope = -0.194 units per year.

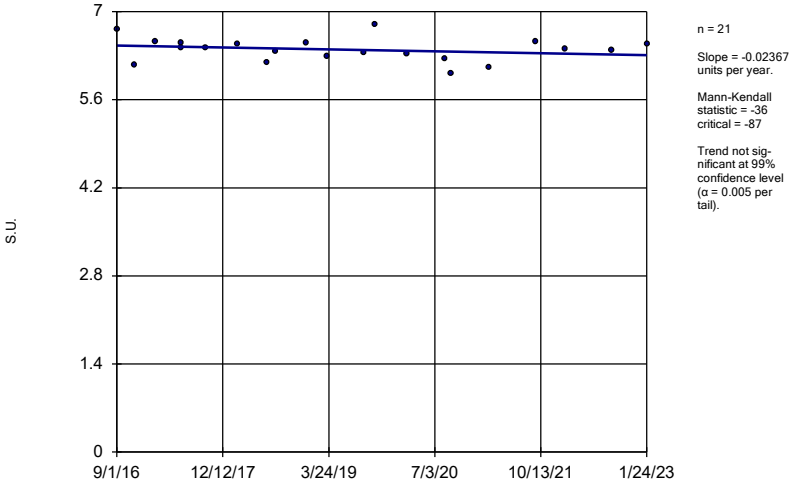
Mann-Kendall statistic = -86 critical = -74

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 4/3/2024 1:46 PM View: Pond BCD - Appendix III Trend Tests
Plant Branch Data: Plant Branch AP

Sen's Slope Estimator

BRGWA-12I (bg)



n = 21

Slope = -0.02367 units per year.

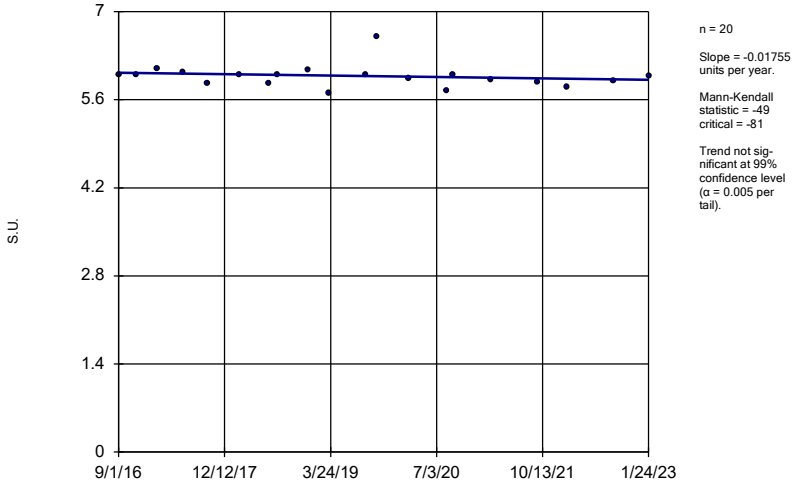
Mann-Kendall statistic = -36 critical = -87

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 4/3/2024 1:47 PM View: Pond BCD - Appendix III Trend Tests
Plant Branch Data: Plant Branch AP

Sen's Slope Estimator

BRGWA-12S (bg)



n = 20

Slope = -0.01755 units per year.

Mann-Kendall statistic = -49 critical = -81

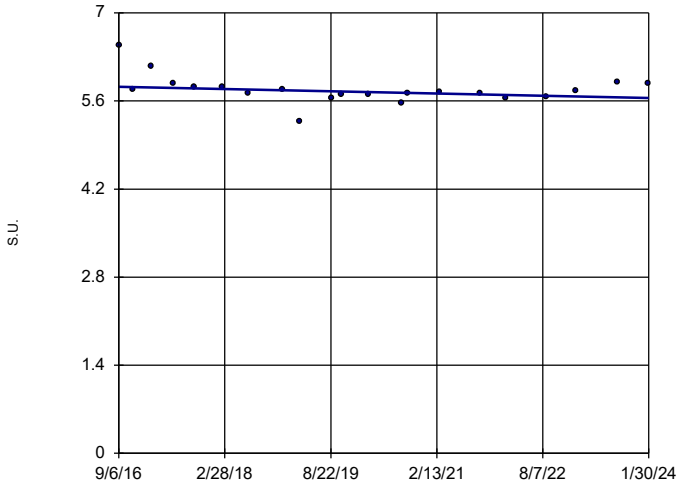
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 4/3/2024 1:47 PM View: Pond BCD - Appendix III Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWA-23S (bg)



n = 21

Slope = -0.02403 units per year.

Mann-Kendall statistic = -47
critical = -87

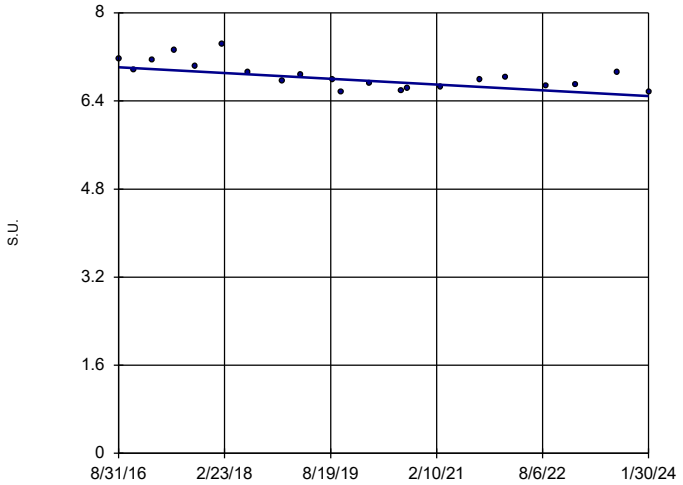
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 4/3/2024 1:47 PM View: Pond BCD - Appendix III Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWA-2I (bg)



n = 21

Slope = -0.07041 units per year.

Mann-Kendall statistic = -101
critical = -87

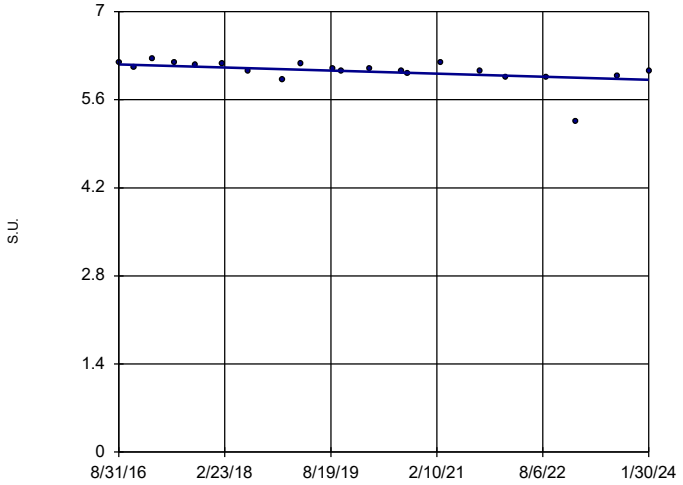
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 4/3/2024 1:47 PM View: Pond BCD - Appendix III Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWA-2S (bg)



n = 21

Slope = -0.03315 units per year.

Mann-Kendall statistic = -107
critical = -87

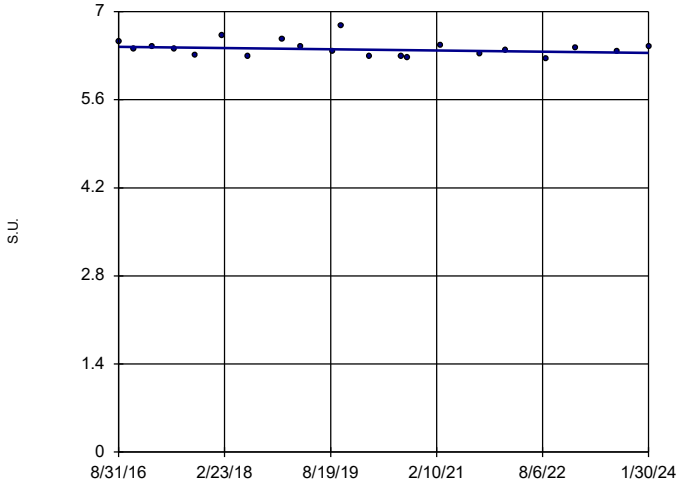
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 4/3/2024 1:47 PM View: Pond BCD - Appendix III Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWA-5I (bg)



n = 21

Slope = -0.0131 units per year.

Mann-Kendall statistic = -41
critical = -87

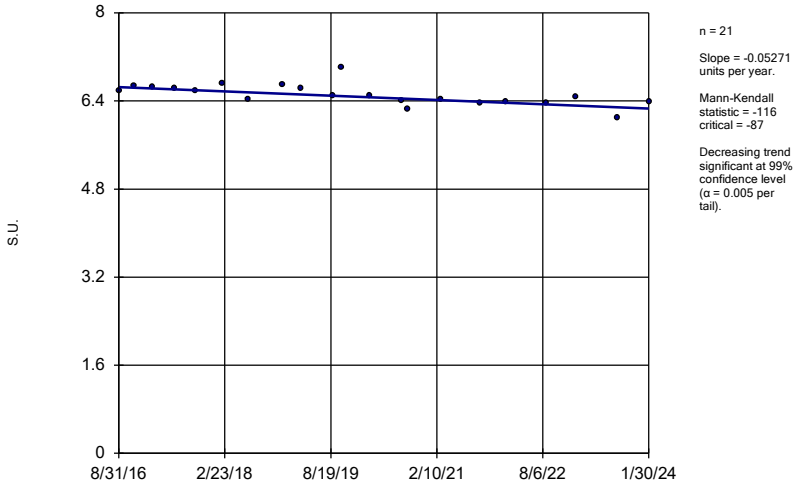
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 4/3/2024 1:47 PM View: Pond BCD - Appendix III Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWA-5S (bg)



n = 21

Slope = -0.05271 units per year.

Mann-Kendall statistic = -116 critical = -87

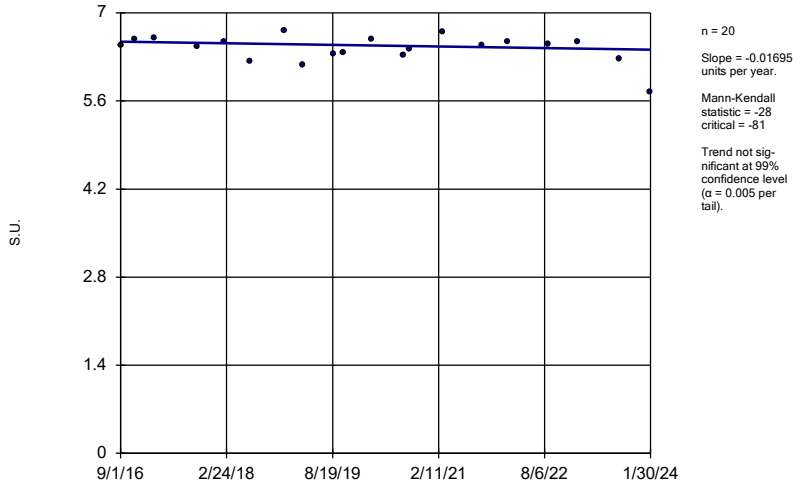
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 4/3/2024 1:47 PM View: Pond BCD - Appendix III Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWA-6S (bg)



n = 20

Slope = -0.01695 units per year.

Mann-Kendall statistic = -28 critical = -81

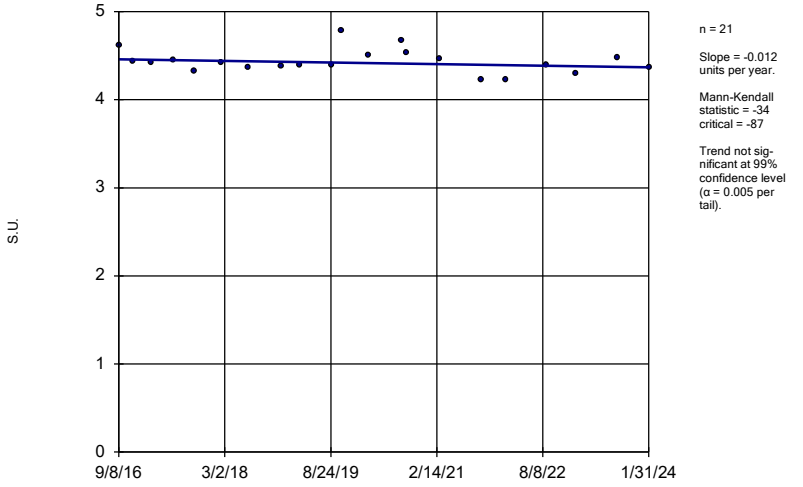
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 4/3/2024 1:47 PM View: Pond BCD - Appendix III Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWC-29I



n = 21

Slope = -0.012 units per year.

Mann-Kendall statistic = -34 critical = -87

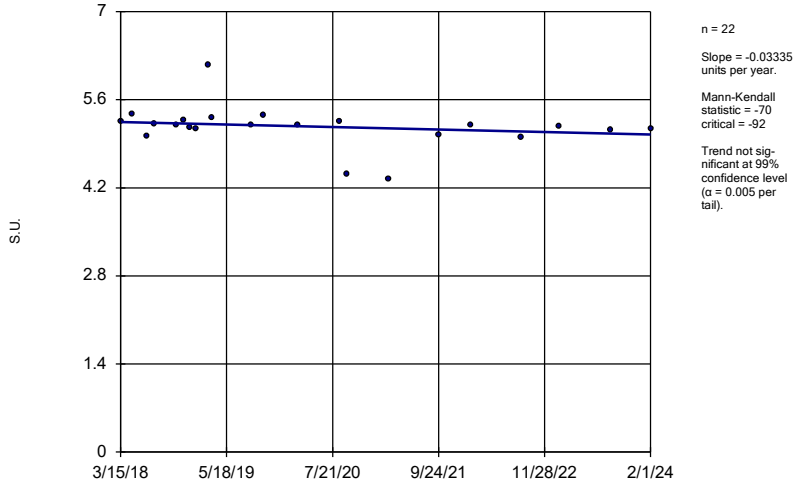
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 4/3/2024 1:47 PM View: Pond BCD - Appendix III Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWC-50



n = 22

Slope = -0.03335 units per year.

Mann-Kendall statistic = -70 critical = -92

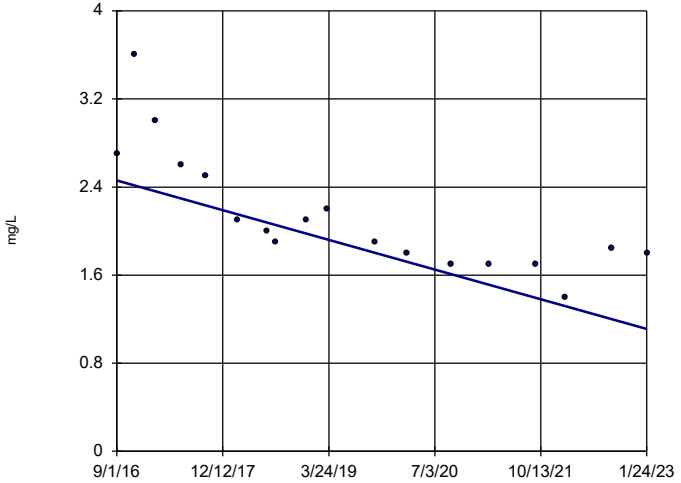
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 4/3/2024 1:47 PM View: Pond BCD - Appendix III Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWA-12I (bg)



n = 18

Slope = -0.2108 units per year.

Mann-Kendall statistic = -113 critical = -68

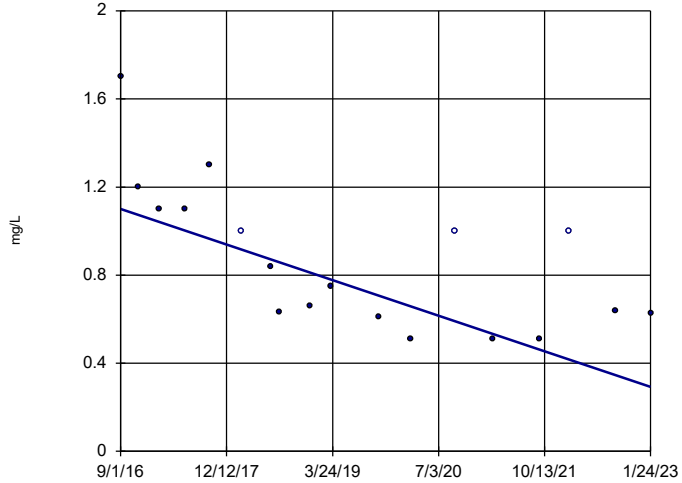
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/3/2024 1:47 PM View: Pond BCD - Appendix III Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-12S (bg)



n = 18

Slope = -0.126 units per year.

Mann-Kendall statistic = -88 critical = -68

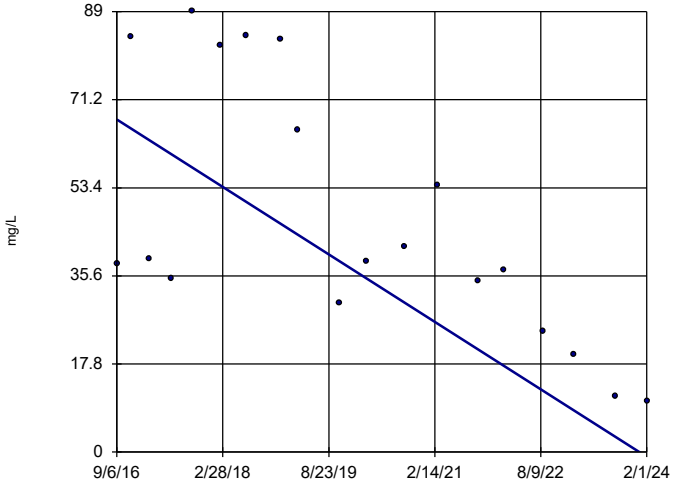
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/3/2024 1:47 PM View: Pond BCD - Appendix III Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWA-23S (bg)



n = 19

Slope = -9.199 units per year.

Mann-Kendall statistic = -93 critical = -74

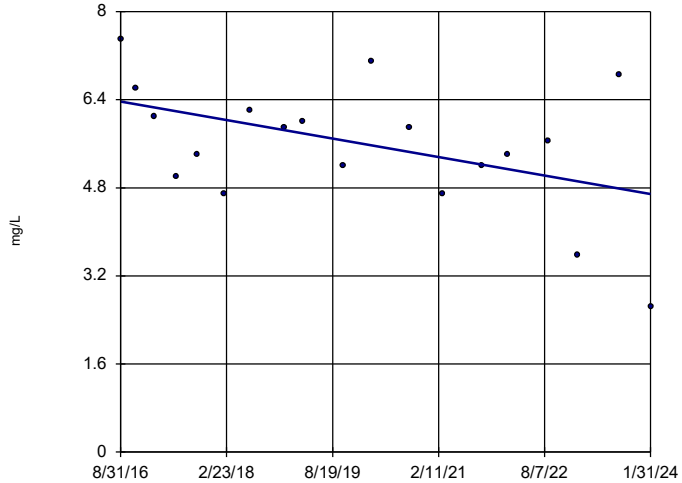
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/3/2024 1:47 PM View: Pond BCD - Appendix III Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWA-2I (bg)



n = 19

Slope = -0.2264 units per year.

Mann-Kendall statistic = -53 critical = -74

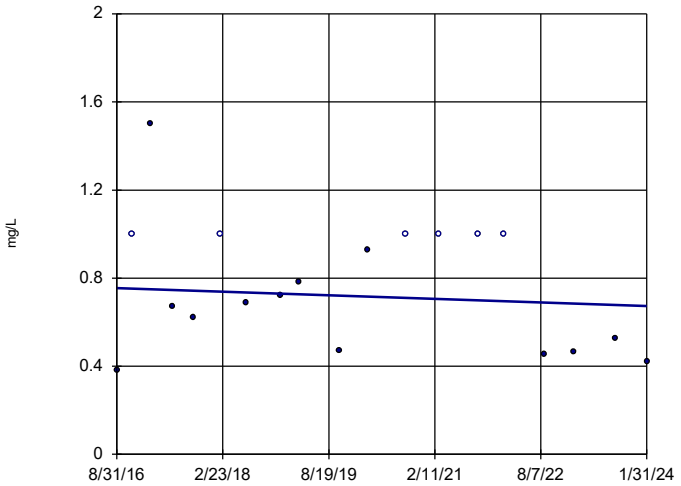
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/3/2024 1:47 PM View: Pond BCD - Appendix III Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-2S (bg)



n = 19

Slope = -0.01093 units per year.

Mann-Kendall statistic = -20
critical = -74

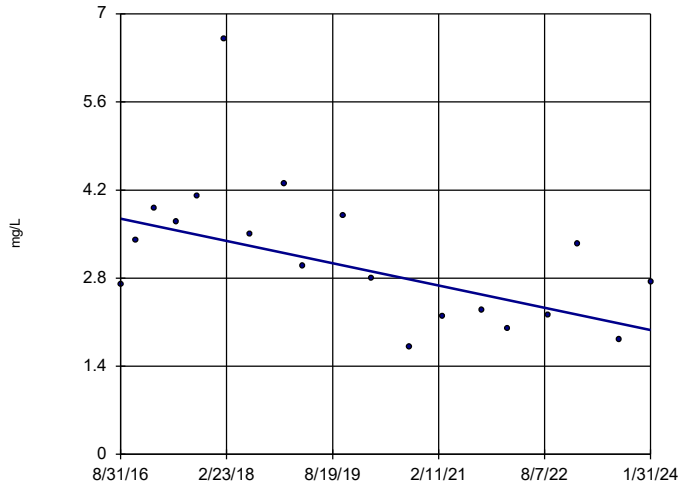
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/3/2024 1:47 PM View: Pond BCD - Appendix III Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWA-5I (bg)



n = 19

Slope = -0.2385 units per year.

Mann-Kendall statistic = -67
critical = -74

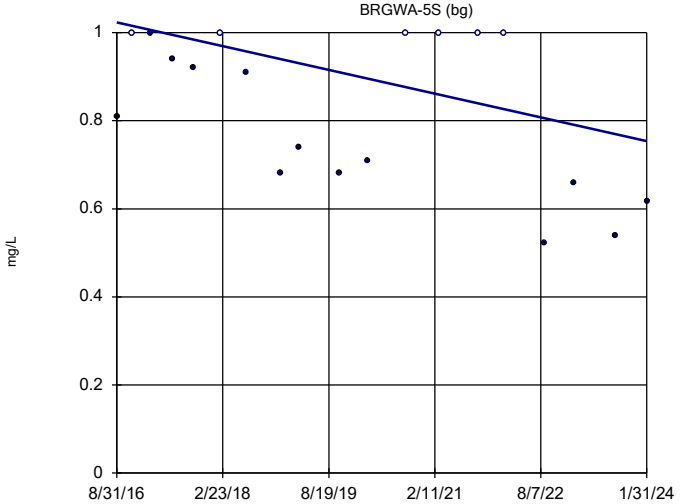
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/3/2024 1:47 PM View: Pond BCD - Appendix III Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-5S (bg)



n = 19

Slope = -0.03629 units per year.

Mann-Kendall statistic = -55
critical = -74

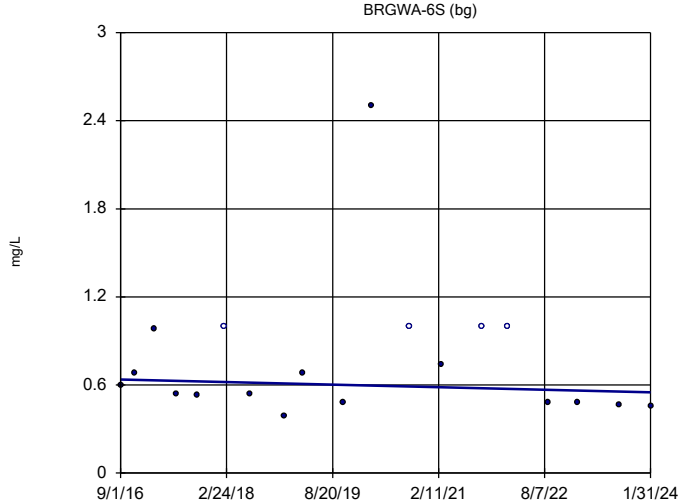
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/3/2024 1:47 PM View: Pond BCD - Appendix III Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-6S (bg)



n = 19

Slope = -0.01177 units per year.

Mann-Kendall statistic = -27
critical = -74

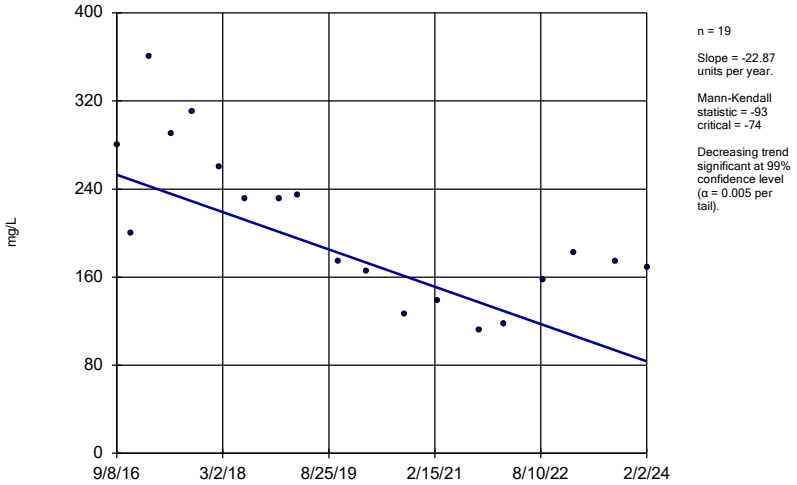
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/3/2024 1:47 PM View: Pond BCD - Appendix III Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWC-25I



n = 19

Slope = -22.87 units per year.

Mann-Kendall statistic = -93 critical = -74

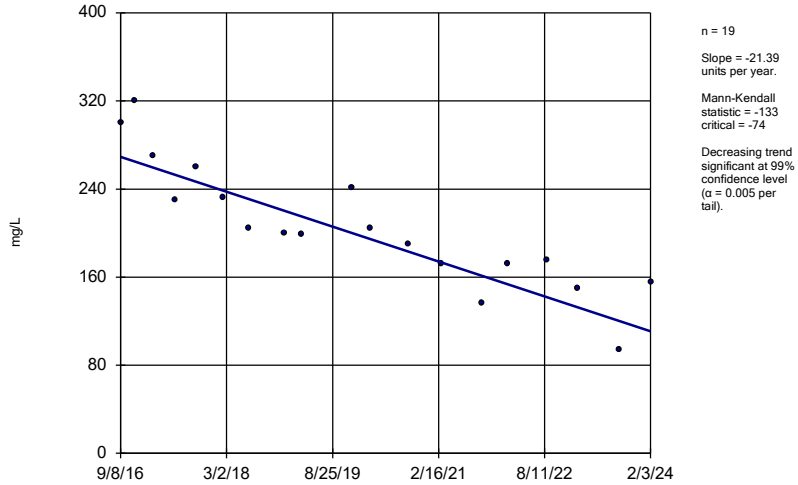
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/3/2024 1:47 PM View: Pond BCD - Appendix III Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWC-27I



n = 19

Slope = -21.39 units per year.

Mann-Kendall statistic = -133 critical = -74

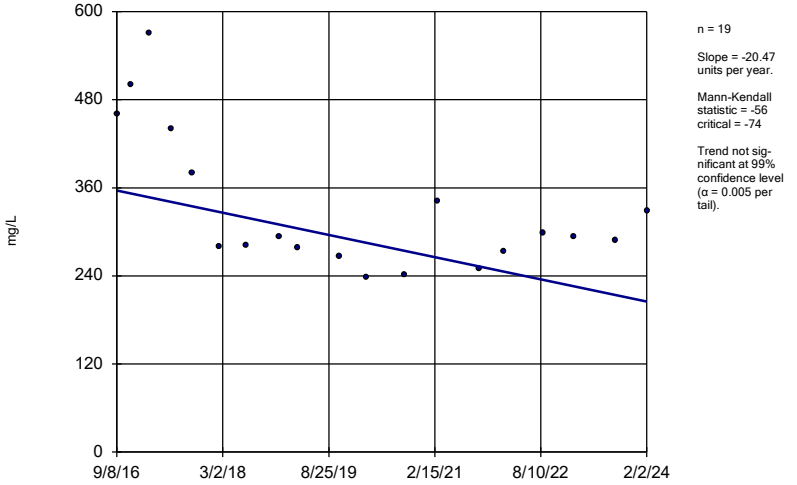
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/3/2024 1:47 PM View: Pond BCD - Appendix III Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWC-29I



n = 19

Slope = -20.47 units per year.

Mann-Kendall statistic = -56 critical = -74

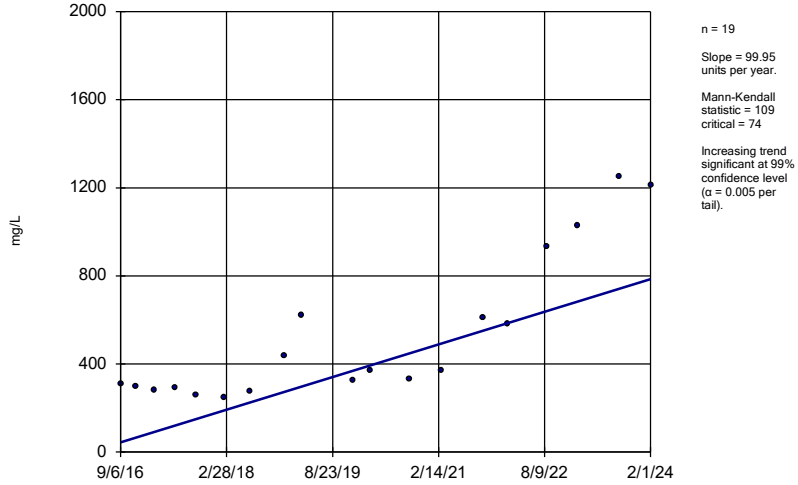
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/3/2024 1:47 PM View: Pond BCD - Appendix III Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWC-30I



n = 19

Slope = 99.95 units per year.

Mann-Kendall statistic = 109 critical = 74

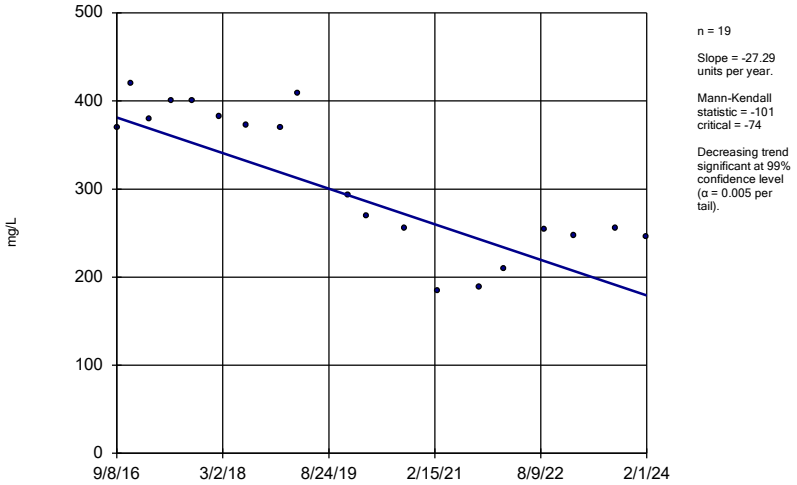
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/3/2024 1:47 PM View: Pond BCD - Appendix III Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWC-32S



n = 19

Slope = -27.29 units per year.

Mann-Kendall statistic = -101 critical = -74

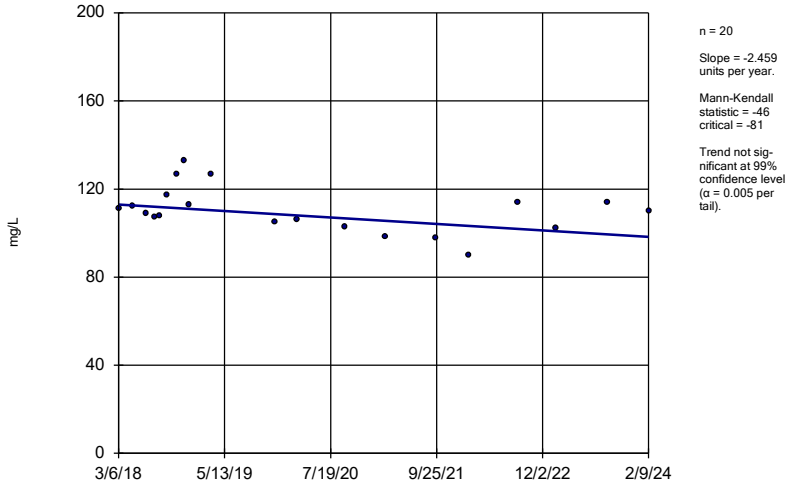
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/3/2024 1:47 PM View: Pond BCD - Appendix III Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWC-45



n = 20

Slope = -2.459 units per year.

Mann-Kendall statistic = -46 critical = -81

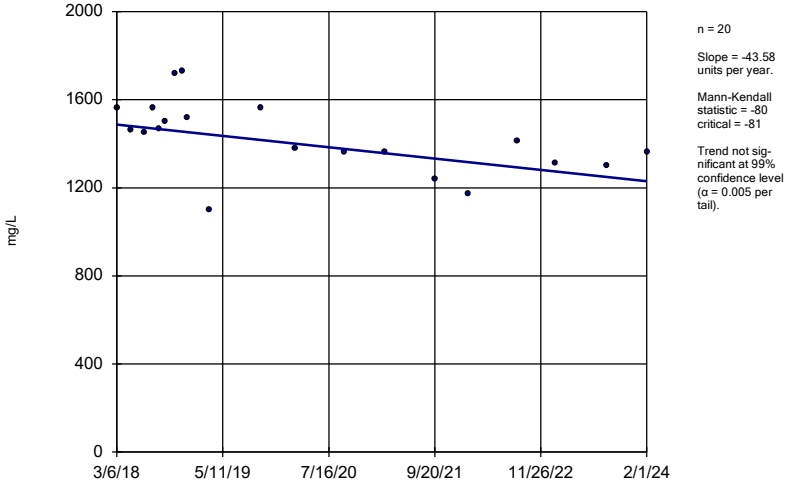
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/3/2024 1:47 PM View: Pond BCD - Appendix III Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWC-47



n = 20

Slope = -43.58 units per year.

Mann-Kendall statistic = -80 critical = -81

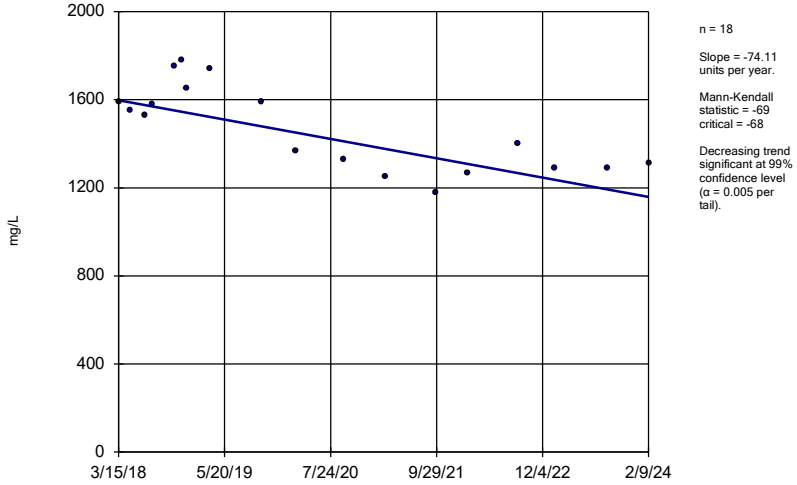
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/3/2024 1:47 PM View: Pond BCD - Appendix III Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWC-50



n = 18

Slope = -74.11 units per year.

Mann-Kendall statistic = -69 critical = -68

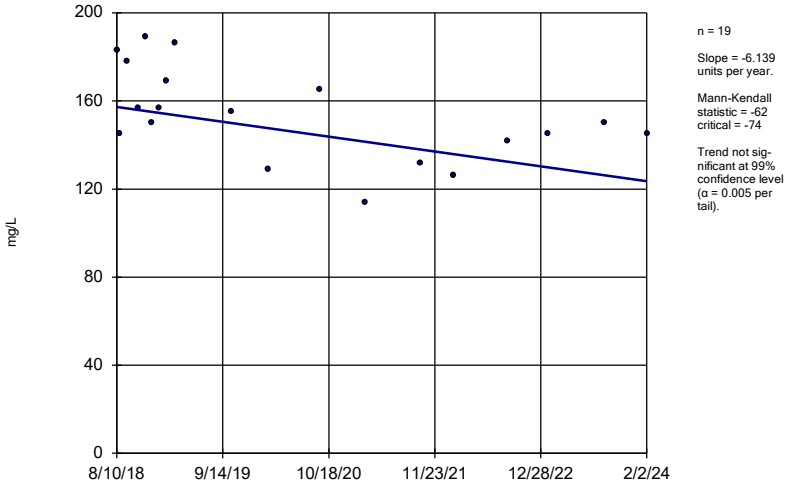
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/3/2024 1:47 PM View: Pond BCD - Appendix III Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWC-52I



n = 19

Slope = -6.139 units per year.

Mann-Kendall statistic = -62 critical = -74

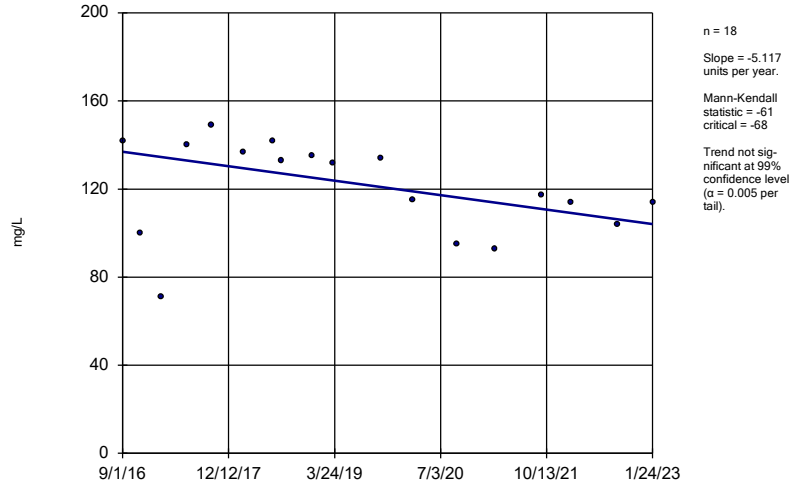
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/3/2024 1:47 PM View: Pond BCD - Appendix III Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWA-12I (bg)



n = 18

Slope = -5.117 units per year.

Mann-Kendall statistic = -61 critical = -68

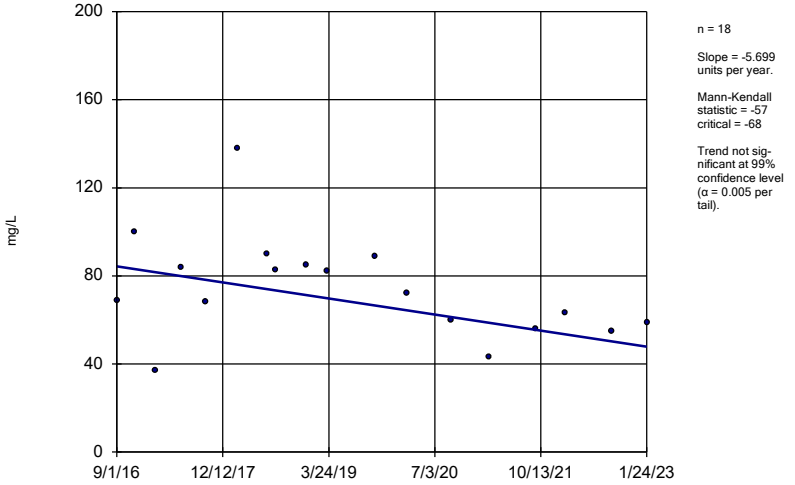
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 4/3/2024 1:47 PM View: Pond BCD - Appendix III Trend
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWA-12S (bg)



n = 18

Slope = -5.699 units per year.

Mann-Kendall statistic = -57 critical = -68

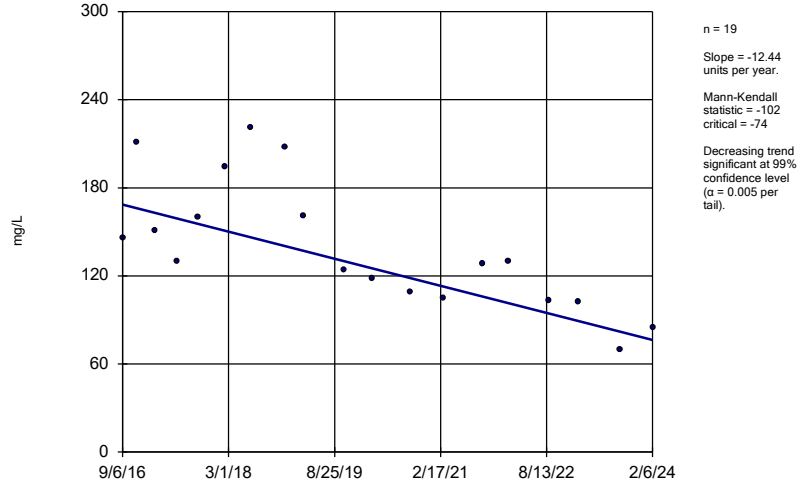
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 4/3/2024 1:47 PM View: Pond BCD - Appendix III Trend
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWA-23S (bg)



n = 19

Slope = -12.44 units per year.

Mann-Kendall statistic = -102 critical = -74

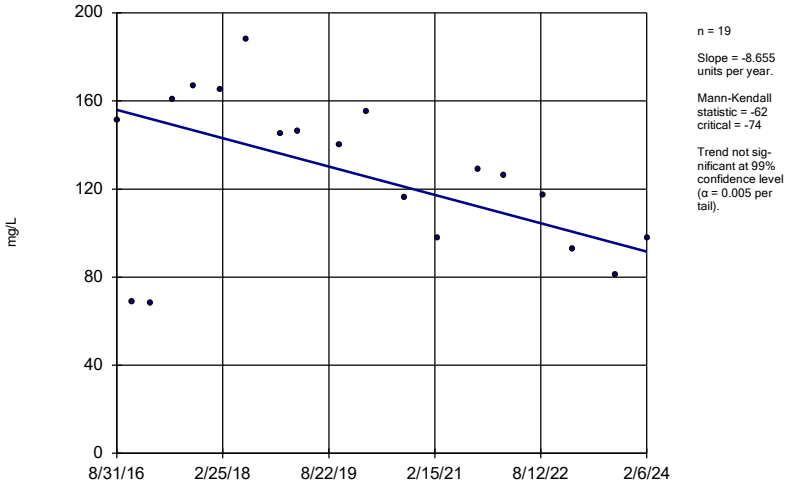
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 4/3/2024 1:47 PM View: Pond BCD - Appendix III Trend
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWA-2I (bg)



n = 19

Slope = -8.655 units per year.

Mann-Kendall statistic = -62 critical = -74

Trend not significant at 99% confidence level (α = 0.005 per tail).

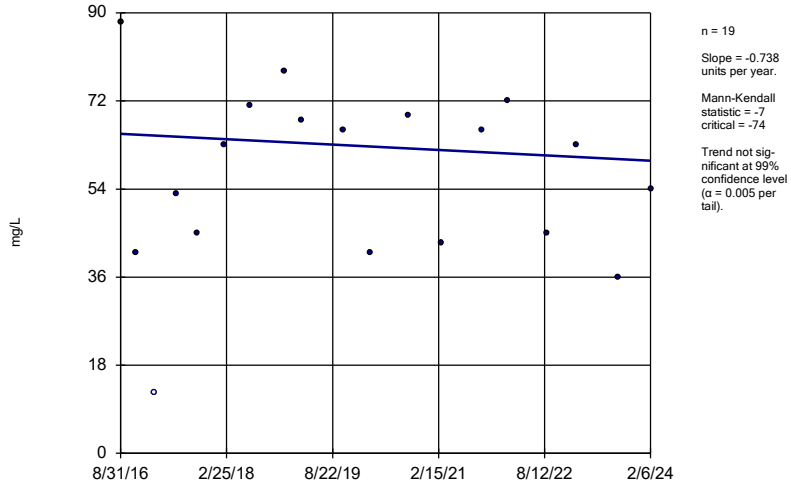
Constituent: Total Dissolved Solids Analysis Run 4/3/2024 1:47 PM View: Pond BCD - Appendix III Trend Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-2S (bg)



n = 19

Slope = -0.738 units per year.

Mann-Kendall statistic = -7 critical = -74

Trend not significant at 99% confidence level (α = 0.005 per tail).

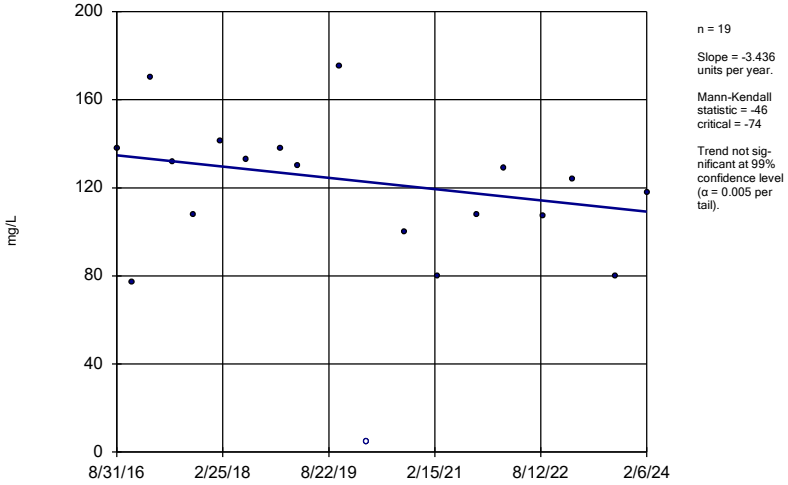
Constituent: Total Dissolved Solids Analysis Run 4/3/2024 1:47 PM View: Pond BCD - Appendix III Trend Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-5I (bg)



n = 19

Slope = -3.436 units per year.

Mann-Kendall statistic = -46 critical = -74

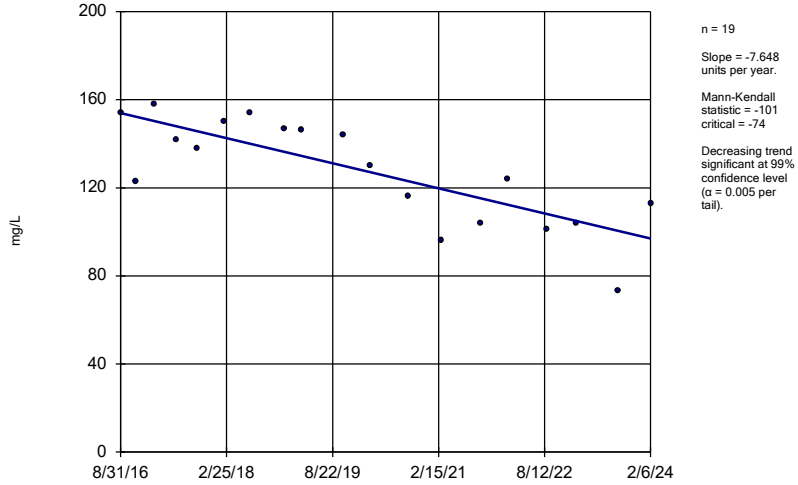
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 4/3/2024 1:47 PM View: Pond BCD - Appendix III Trend Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWA-5S (bg)



n = 19

Slope = -7.648 units per year.

Mann-Kendall statistic = -101 critical = -74

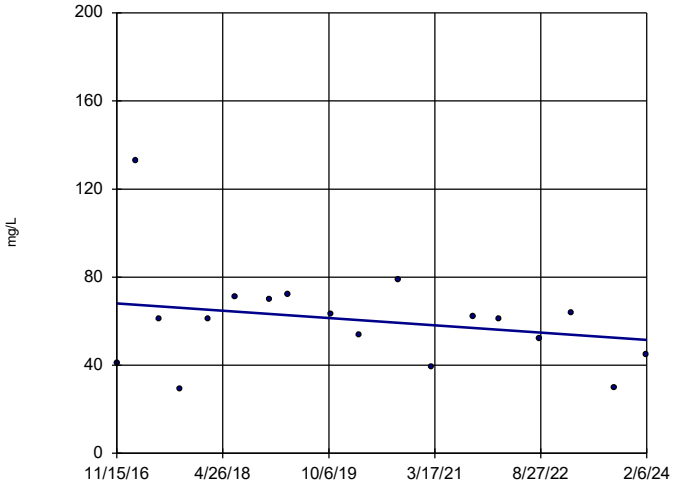
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 4/3/2024 1:47 PM View: Pond BCD - Appendix III Trend Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWA-6S (bg)



n = 18

Slope = -2.289 units per year.

Mann-Kendall statistic = -26 critical = -68

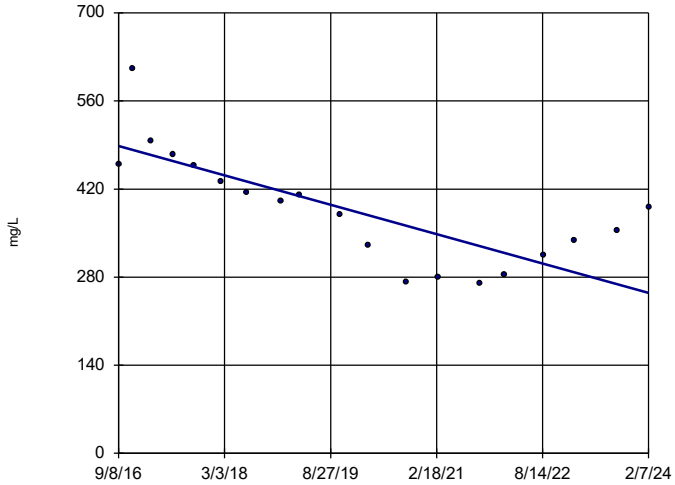
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 4/3/2024 1:47 PM View: Pond BCD - Appendix III Trend Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWC-25I



n = 19

Slope = -31.49 units per year.

Mann-Kendall statistic = -103 critical = -74

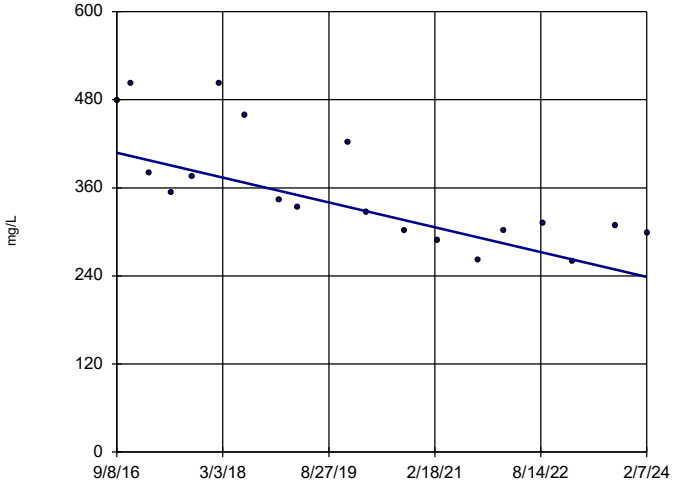
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 4/3/2024 1:47 PM View: Pond BCD - Appendix III Trend Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWC-27I



n = 19

Slope = -22.83 units per year.

Mann-Kendall statistic = -113 critical = -74

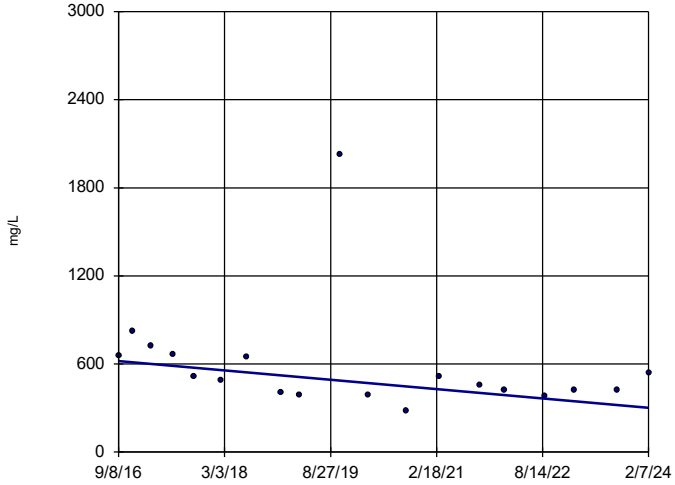
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 4/3/2024 1:47 PM View: Pond BCD - Appendix III Trend Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWC-29I



n = 19

Slope = -43.05 units per year.

Mann-Kendall statistic = -69 critical = -74

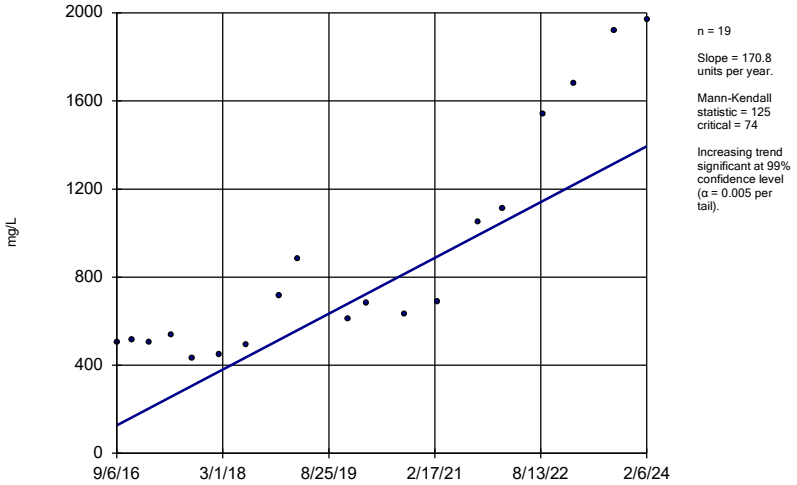
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 4/3/2024 1:47 PM View: Pond BCD - Appendix III Trend Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWC-30I



n = 19

Slope = 170.8 units per year.

Mann-Kendall statistic = 125
critical = 74

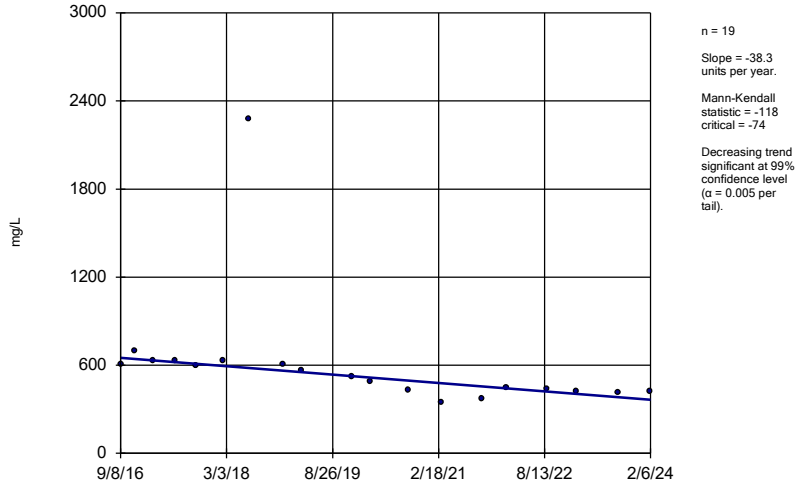
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 4/3/2024 1:47 PM View: Pond BCD - Appendix III Trend Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWC-32S



n = 19

Slope = -38.3 units per year.

Mann-Kendall statistic = -118
critical = -74

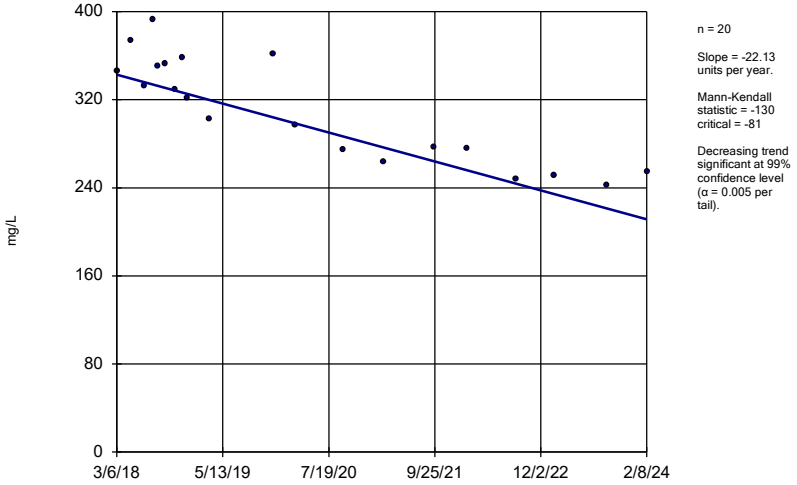
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 4/3/2024 1:47 PM View: Pond BCD - Appendix III Trend Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWC-45



n = 20

Slope = -22.13 units per year.

Mann-Kendall statistic = -130
critical = -81

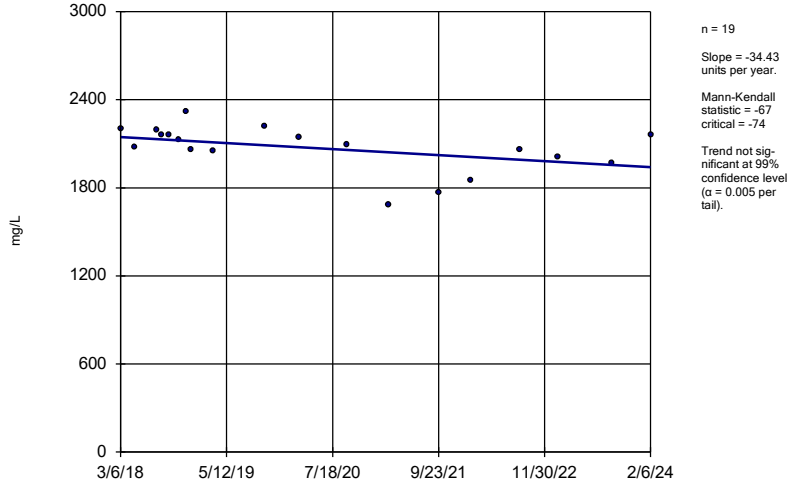
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 4/3/2024 1:47 PM View: Pond BCD - Appendix III Trend Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWC-47



n = 19

Slope = -34.43 units per year.

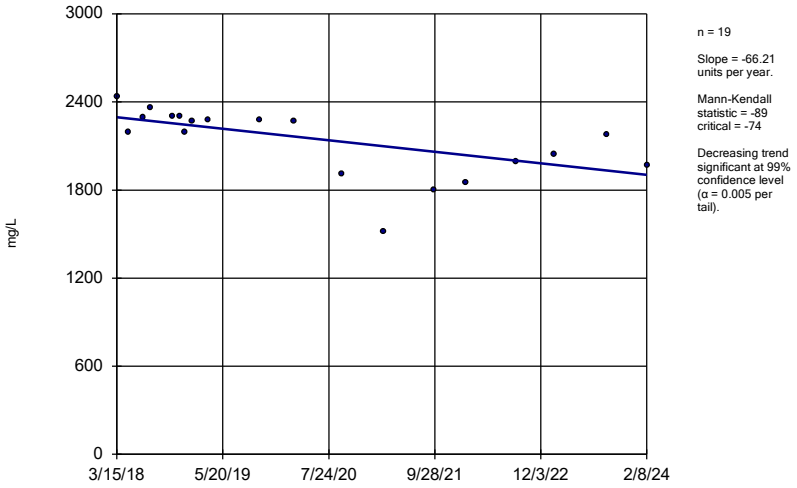
Mann-Kendall statistic = -67
critical = -74

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 4/3/2024 1:47 PM View: Pond BCD - Appendix III Trend Plant Branch Data: Plant Branch AP

Sen's Slope Estimator

BRGWC-50



n = 19

Slope = -66.21 units per year.

Mann-Kendall statistic = -89
critical = -74

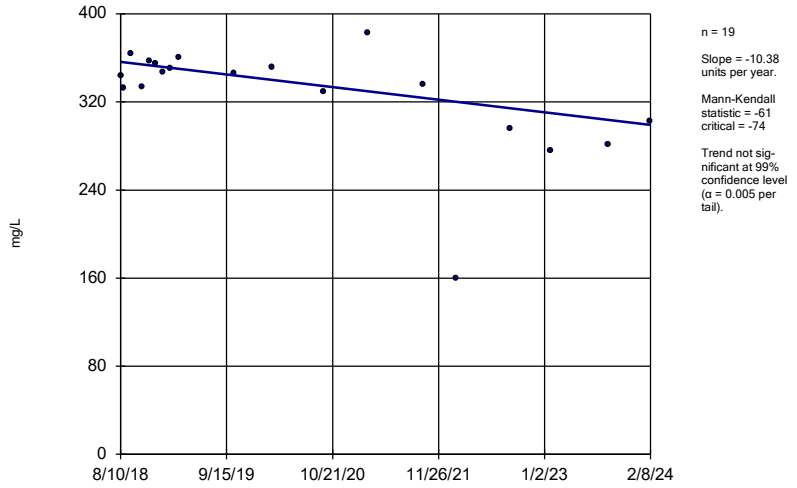
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 4/3/2024 1:47 PM View: Pond BCD - Appendix III Trend Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWC-52I



n = 19

Slope = -10.38 units per year.

Mann-Kendall statistic = -61
critical = -74

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 4/3/2024 1:47 PM View: Pond BCD - Appendix III Trend Plant Branch Data: Plant Branch AP

FIGURE F.

Upper Tolerance Limits Summary Table

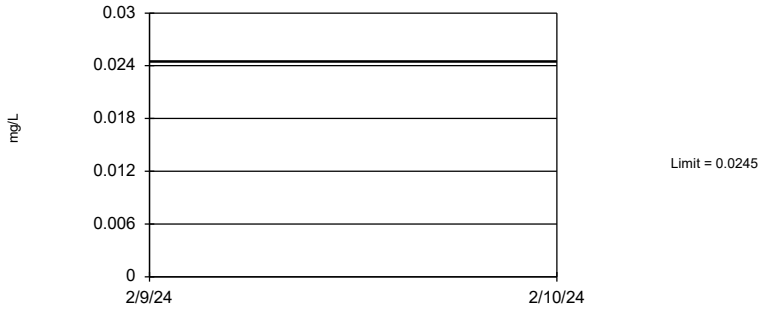
Plant Branch Client: Southern Company Data: Plant Branch AP Printed 4/5/2024, 1:44 PM

Constituent	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Antimony (mg/L)	0.0245	n/a	n/a	n/a	n/a	156	83.97	n/a	0.0003349	NP Inter(NDs)
Arsenic (mg/L)	0.0027	n/a	n/a	n/a	n/a	156	77.56	n/a	0.0003349	NP Inter(NDs)
Barium (mg/L)	0.13	n/a	n/a	n/a	n/a	156	0	n/a	0.0003349	NP Inter(normality)
Beryllium (mg/L)	0.0002	n/a	n/a	n/a	n/a	156	100	n/a	0.0003349	NP Inter(NDs)
Cadmium (mg/L)	0.0003	n/a	n/a	n/a	n/a	158	98.73	n/a	0.0003022	NP Inter(NDs)
Chromium (mg/L)	0.016	n/a	n/a	n/a	n/a	156	21.79	n/a	0.0003349	NP Inter(normality)
Cobalt (mg/L)	0.0135	n/a	n/a	n/a	n/a	156	55.13	n/a	0.0003349	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	2.229	n/a	n/a	n/a	n/a	156	0	sqrt(x)	0.05	Inter
Fluoride (mg/L)	0.42	n/a	n/a	n/a	n/a	164	48.78	n/a	0.0002222	NP Inter(normality)
Lead (mg/L)	0.0013	n/a	n/a	n/a	n/a	156	88.46	n/a	0.0003349	NP Inter(NDs)
Lithium (mg/L)	0.089	n/a	n/a	n/a	n/a	156	41.67	n/a	0.0003349	NP Inter(normality)
Mercury (mg/L)	0.00021	n/a	n/a	n/a	n/a	140	89.29	n/a	0.0007609	NP Inter(NDs)
Molybdenum (mg/L)	0.008	n/a	n/a	n/a	n/a	153	75.16	n/a	0.0003906	NP Inter(NDs)
Selenium (mg/L)	0.006	n/a	n/a	n/a	n/a	156	92.31	n/a	0.0003349	NP Inter(NDs)
Thallium (mg/L)	0.0006	n/a	n/a	n/a	n/a	156	100	n/a	0.0003349	NP Inter(NDs)

Sanitas™ v.10.0.16 . UG

Tolerance Limit

Interwell Non-parametric



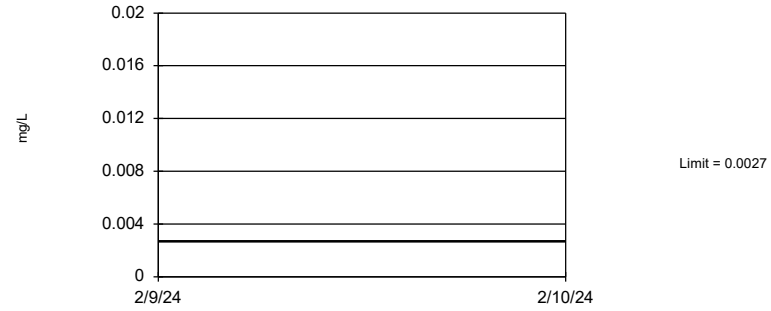
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 156 background values. 83.97% NDs. 97.07% coverage at alpha=0.01; 98.24% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0003349.

Constituent: Antimony Analysis Run 4/5/2024 1:42 PM View: Pond BCD Appendix IV - UTLs
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Tolerance Limit

Interwell Non-parametric



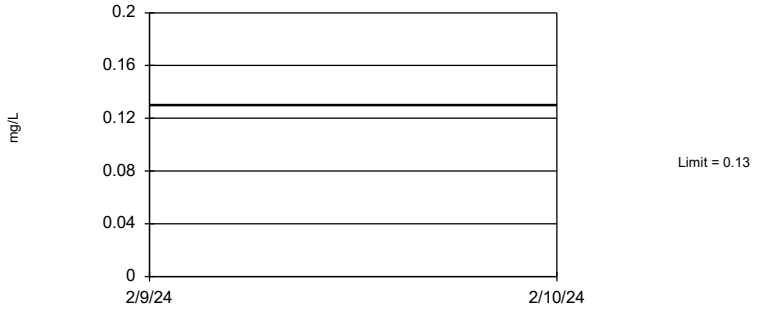
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 156 background values. 77.56% NDs. 97.07% coverage at alpha=0.01; 98.24% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0003349.

Constituent: Arsenic Analysis Run 4/5/2024 1:42 PM View: Pond BCD Appendix IV - UTLs
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Tolerance Limit

Interwell Non-parametric



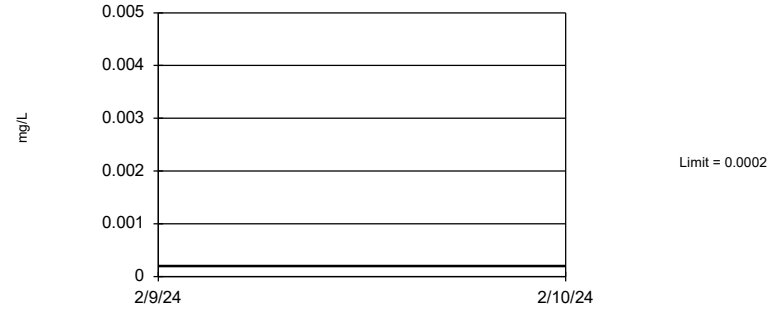
Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 156 background values. 97.07% coverage at alpha=0.01; 98.24% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0003349.

Constituent: Barium Analysis Run 4/5/2024 1:42 PM View: Pond BCD Appendix IV - UTLs
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Tolerance Limit

Interwell Non-parametric



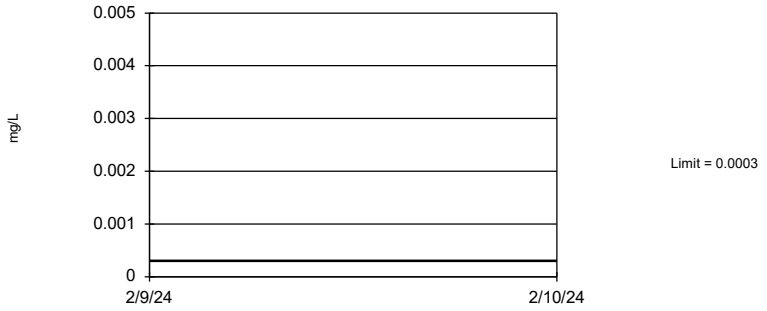
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. All background values were censored; limit is most recent reporting limit. 97.07% coverage at alpha=0.01; 98.24% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0003349.

Constituent: Beryllium Analysis Run 4/5/2024 1:42 PM View: Pond BCD Appendix IV - UTLs
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 158 background values. 98.73% NDs. 97.07% coverage at alpha=0.01; 98.24% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0003022.

Constituent: Cadmium Analysis Run 4/5/2024 1:42 PM View: Pond BCD Appendix IV - UTLs
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Tolerance Limit

Interwell Non-parametric

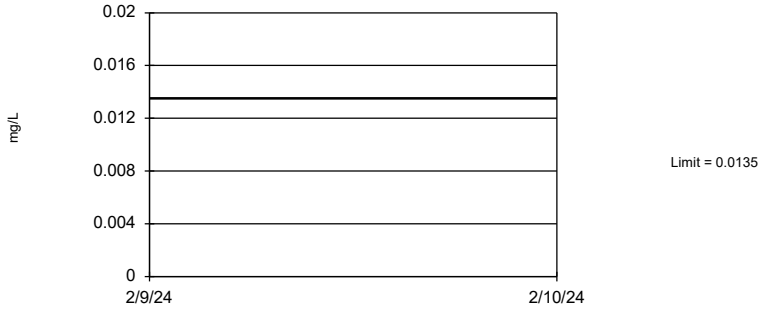
Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 156 background values. 21.79% NDs. 97.07% coverage at alpha=0.01; 98.24% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0003349.

Constituent: Chromium Analysis Run 4/5/2024 1:42 PM View: Pond BCD Appendix IV - UTLs
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Tolerance Limit

Interwell Non-parametric



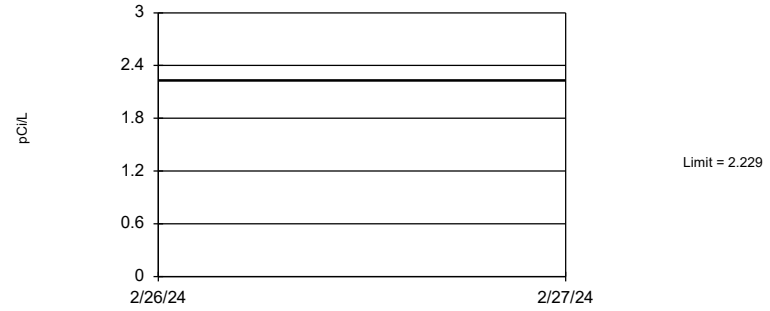
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 156 background values. 55.13% NDs. 97.07% coverage at alpha=0.01; 98.24% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0003349.

Constituent: Cobalt Analysis Run 4/5/2024 1:42 PM View: Pond BCD Appendix IV - UTLs
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Tolerance Limit

Interwell Parametric



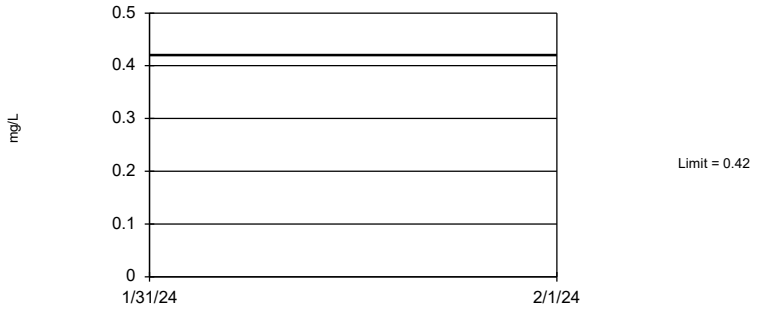
95% coverage. Background Data Summary (based on square root transformation): Mean=0.8973, Std. Dev.=0.3196, n=156. Normality test: Chi Squared @alpha = 0.01, calculated = 14, critical = 14.07. Report alpha = 0.05.

Constituent: Combined Radium 226 + 228 Analysis Run 4/5/2024 1:42 PM View: Pond BCD Appendix IV -
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 164 background values. 48.78% NDs. 97.07% coverage at alpha=0.01; 98.24% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0002222.

Constituent: Fluoride Analysis Run 4/5/2024 1:42 PM View: Pond BCD Appendix IV - UTLs
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Tolerance Limit

Interwell Non-parametric

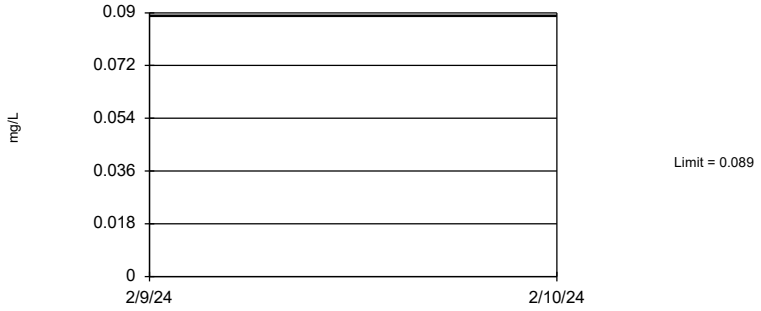
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 156 background values. 88.46% NDs. 97.07% coverage at alpha=0.01; 98.24% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0003349.

Constituent: Lead Analysis Run 4/5/2024 1:42 PM View: Pond BCD Appendix IV - UTLs
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Tolerance Limit

Interwell Non-parametric



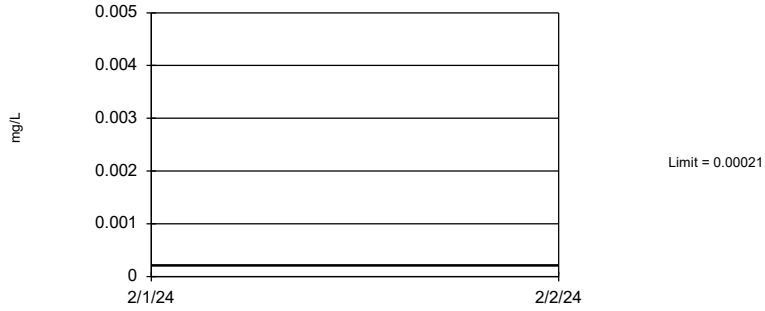
Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 156 background values. 41.67% NDs. 97.07% coverage at alpha=0.01; 98.24% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0003349.

Constituent: Lithium Analysis Run 4/5/2024 1:42 PM View: Pond BCD Appendix IV - UTLs
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 140 background values. 89.29% NDs. 96.68% coverage at alpha=0.01; 97.85% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0007609.

Constituent: Mercury Analysis Run 4/5/2024 1:42 PM View: Pond BCD Appendix IV - UTLs
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Tolerance Limit

Interwell Non-parametric

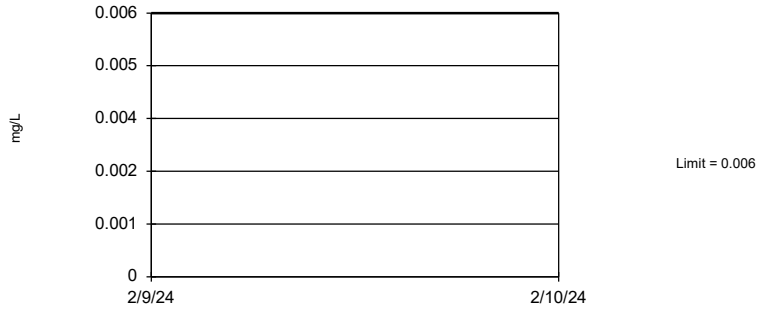
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 153 background values. 75.16% NDs. 97.07% coverage at alpha=0.01; 98.24% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0003906.

Constituent: Molybdenum Analysis Run 4/5/2024 1:42 PM View: Pond BCD Appendix IV - UTLs
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Tolerance Limit

Interwell Non-parametric



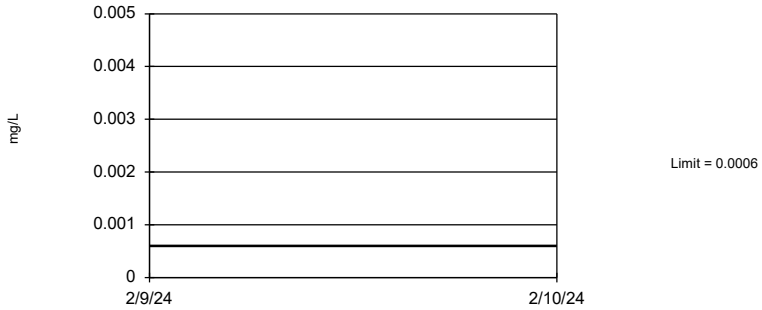
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 156 background values. 92.31% NDs. 97.07% coverage at alpha=0.01; 98.24% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0003349.

Constituent: Selenium Analysis Run 4/5/2024 1:42 PM View: Pond BCD Appendix IV - UTLs
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. All background values were censored; limit is most recent reporting limit. 97.07% coverage at alpha=0.01; 98.24% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0003349.

Constituent: Thallium Analysis Run 4/5/2024 1:43 PM View: Pond BCD Appendix IV - UTLs
Plant Branch Client: Southern Company Data: Plant Branch AP

FIGURE G.

PLANT BRANCH POND BCD GWPS				
Constituent Name	**MCL**	**CCR-Rule Specified**	**Background Limit**	**GWPS**
Antimony, Total (mg/L)	0.006		0.025	0.006
Arsenic, Total (mg/L)	0.01		0.0027	0.01
Barium, Total (mg/L)	2		0.13	2
Beryllium, Total (mg/L)	0.004		0.0002	0.004
Cadmium, Total (mg/L)	0.005		0.0003	0.005
Chromium, Total (mg/L)	0.1		0.016	0.1
Cobalt, Total (mg/L)	n/a	0.006	0.014	0.014
Combined Radium, Total (pCi/L)	5		2.23	5
Fluoride, Total (mg/L)	4		0.42	4
Lead, Total (mg/L)	n/a	0.015	0.0013	0.015
Lithium, Total (mg/L)	n/a	0.04	0.089	0.089
Mercury, Total (mg/L)	0.002		0.00021	0.002
Molybdenum, Total (mg/L)	n/a	0.1	0.008	0.1
Selenium, Total (mg/L)	0.05		0.006	0.05
Thallium, Total (mg/L)	0.002		0.0006	0.002

**Highlighted cells indicate Background is higher than MCLs*

**MCL = Maximum Contaminant Level*

**CCR = Coal Combustion Residuals*

**GWPS = Groundwater Protection Standard*

***MCL used in lieu of Background limit for Antimony*

FIGURE H.

Confidence Intervals Summary Table - Significant Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 4/10/2024, 3:58 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Beryllium (mg/L)	**BRGWC-50**	**0.008357**	**0.005451**	**0.004**	**Yes**	**10**	**0.001628**	**0**	**None**	**No**	**0.01**	**Param.**
Beryllium (mg/L)	**PZ-58I**	**0.03855**	**0.02515**	**0.004**	**Yes**	**6**	**0.004876**	**0**	**None**	**No**	**0.01**	**Param.**
Beryllium (mg/L)	**PZ-60I**	**0.07698**	**0.06116**	**0.004**	**Yes**	**6**	**0.005757**	**0**	**None**	**No**	**0.01**	**Param.**
Cadmium (mg/L)	**BRGWC-50**	**0.02754**	**0.01063**	**0.005**	**Yes**	**20**	**0.02392**	**0**	**None**	**ln(x)**	**0.01**	**Param.**
Cadmium (mg/L)	**PZ-60I**	**0.01695**	**0.01408**	**0.005**	**Yes**	**6**	**0.001044**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	**BRGWC-50**	**1.42**	**1.35**	**0.014**	**Yes**	**20**	**0.06161**	**0**	**None**	**No**	**0.01**	**NP (normality)**
Cobalt (mg/L)	**PZ-51I**	**0.0259**	**0.018**	**0.014**	**Yes**	**13**	**0.00604**	**0**	**None**	**No**	**0.01**	**NP (normality)**
Cobalt (mg/L)	**PZ-58I**	**0.592**	**0.397**	**0.014**	**Yes**	**6**	**0.07098**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	**PZ-60I**	**3.826**	**3.401**	**0.014**	**Yes**	**6**	**0.1549**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	**PZ-61I**	**0.7533**	**0.439**	**0.014**	**Yes**	**6**	**0.1144**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	**PZ-63I**	**0.03457**	**0.01783**	**0.014**	**Yes**	**5**	**0.004996**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	**PZ-64I**	**12.08**	**8.176**	**0.014**	**Yes**	**4**	**0.8597**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	**PZ-60I**	**0.1103**	**0.09052**	**0.089**	**Yes**	**6**	**0.007192**	**0**	**None**	**No**	**0.01**	**Param.**
Selenium (mg/L)	**BRGWC-32S**	**0.182**	**0.1028**	**0.05**	**Yes**	**13**	**0.05326**	**0**	**None**	**No**	**0.01**	**Param.**

Confidence Intervals Summary Table - All Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 4/10/2024, 3:59 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	BRGWC-29I	0.001	0.0007	0.006	No	20	0.00006708	95	None	No	0.01	NP (NDs)
Antimony (mg/L)	BRGWC-30I	0.0013	0.001	0.006	No	20	0.00006708	95	None	No	0.01	NP (NDs)
Antimony (mg/L)	BRGWC-32S	0.0014	0.001	0.006	No	20	0.00008944	95	None	No	0.01	NP (NDs)
Antimony (mg/L)	BRGWC-45	0.0012	0.00088	0.006	No	21	0.0005683	66.67	None	No	0.01	NP (NDs)
Antimony (mg/L)	BRGWC-47	0.001	0.00035	0.006	No	21	0.0001418	95.24	None	No	0.01	NP (NDs)
Antimony (mg/L)	BRGWC-50	0.001	0.00092	0.006	No	20	0.0001652	85	None	No	0.01	NP (NDs)
Antimony (mg/L)	BRGWC-52I	0.001	0.00091	0.006	No	20	0.0001303	85	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-50D	0.001	0.00056	0.006	No	7	0.0001663	85.71	None	No	0.008	NP (NDs)
Antimony (mg/L)	PZ-51D	0.0013	0.001	0.006	No	7	0.0001134	85.71	None	No	0.008	NP (NDs)
Antimony (mg/L)	PZ-51I	0.0012	0.001	0.006	No	11	0.0002304	72.73	None	No	0.006	NP (NDs)
Arsenic (mg/L)	BRGWC-25I	0.002	0.00091	0.01	No	20	0.0005428	80	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-27I	0.002	0.0014	0.01	No	20	0.0004174	80	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-29I	0.002	0.0016	0.01	No	20	0.000535	65	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-30I	0.005	0.00283	0.01	No	20	0.00134	80	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-32S	0.002	0.00053	0.01	No	20	0.0003287	95	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-45	0.0021	0.00096	0.01	No	21	0.0005191	71.43	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-47	0.002207	0.001082	0.01	No	21	0.001071	33.33	Kaplan-Meier	sqrt(x)	0.01	Param.
Arsenic (mg/L)	BRGWC-50	0.00236	0.0014	0.01	No	20	0.0004799	75	Kaplan-Meier	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-52I	0.00251	0.001228	0.01	No	20	0.0009127	50	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	PZ-44	0.004	0.002	0.01	No	8	0.0007004	75	Kaplan-Meier	No	0.004	NP (NDs)
Arsenic (mg/L)	PZ-50D	0.002971	0.001169	0.01	No	7	0.0007587	14.29	None	No	0.01	Param.
Arsenic (mg/L)	PZ-51D	0.00362	0.001423	0.01	No	7	0.0009245	14.29	None	No	0.01	Param.
Arsenic (mg/L)	PZ-51I	0.002	0.002	0.01	No	11	0.00006633	90.91	None	No	0.006	NP (NDs)
Arsenic (mg/L)	PZ-58I	0.00245	0.002	0.01	No	6	0.0001837	83.33	None	No	0.0155	NP (NDs)
Arsenic (mg/L)	PZ-60I	0.005	0.00204	0.01	No	6	0.001356	50	None	No	0.0155	NP (normality)
Arsenic (mg/L)	PZ-61I	0.00295	0.002	0.01	No	6	0.0003688	50	None	No	0.0155	NP (normality)
Arsenic (mg/L)	PZ-64I	0.01392	0.0001973	0.01	No	4	0.003022	0	None	No	0.01	Param.
Barium (mg/L)	BRGWC-25I	0.03372	0.0266	2	No	20	0.006573	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	BRGWC-27I	0.01668	0.01511	2	No	20	0.001375	0	None	No	0.01	Param.
Barium (mg/L)	BRGWC-29I	0.01897	0.01705	2	No	20	0.001693	0	None	No	0.01	Param.
Barium (mg/L)	BRGWC-30I	0.03141	0.02372	2	No	20	0.006767	0	None	No	0.01	Param.
Barium (mg/L)	BRGWC-32S	0.03928	0.02552	2	No	20	0.01211	0	None	No	0.01	Param.
Barium (mg/L)	BRGWC-45	0.09006	0.07004	2	No	21	0.01814	0	None	No	0.01	Param.
Barium (mg/L)	BRGWC-47	0.04108	0.03228	2	No	21	0.00798	0	None	No	0.01	Param.
Barium (mg/L)	BRGWC-50	0.0205	0.01757	2	No	20	0.002573	0	None	No	0.01	Param.
Barium (mg/L)	BRGWC-52I	0.02716	0.01748	2	No	20	0.009104	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	PZ-44	0.05503	0.04807	2	No	8	0.003279	0	None	No	0.01	Param.
Barium (mg/L)	PZ-50D	0.03897	0.02512	2	No	7	0.005828	0	None	No	0.01	Param.
Barium (mg/L)	PZ-51D	0.06987	0.04262	2	No	7	0.01204	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	PZ-51I	0.01577	0.01383	2	No	11	0.001169	0	None	No	0.01	Param.
Barium (mg/L)	PZ-58I	0.01794	0.01583	2	No	6	0.0007679	0	None	No	0.01	Param.
Barium (mg/L)	PZ-60I	0.02322	0.02048	2	No	6	0.0009955	0	None	No	0.01	Param.
Barium (mg/L)	PZ-61I	0.029	0.0102	2	No	6	0.006815	0	None	No	0.0155	NP (normality)
Barium (mg/L)	PZ-63I	0.037	0.0202	2	No	5	0.006862	0	None	No	0.031	NP (normality)
Barium (mg/L)	PZ-64I	0.06954	0	2	No	4	0.01844	0	None	No	0.01	Param.
Beryllium (mg/L)	BRGWC-27I	0.0002	0.00011	0.004	No	21	0.00005165	38.1	None	No	0.01	NP (normality)
Beryllium (mg/L)	BRGWC-29I	0.001105	0.0008326	0.004	No	20	0.0002398	5	None	No	0.01	Param.
Beryllium (mg/L)	BRGWC-45	0.0002	0.000079	0.004	No	22	0.00004078	90.91	None	No	0.01	NP (NDs)
Beryllium (mg/L)	BRGWC-47	0.0002	0.000056	0.004	No	21	0.00005285	85.71	None	No	0.01	NP (NDs)
Beryllium (mg/L)	**BRGWC-50**	**0.008357**	**0.005451**	**0.004**	**Yes**	**10**	**0.001628**	**0**	**None**	**No**	**0.01**	**Param.**
Beryllium (mg/L)	PZ-50D	0.000269	0.000059	0.004	No	7	0.00006312	71.43	None	No	0.008	NP (NDs)
Beryllium (mg/L)	PZ-51I	0.0005	0.000071	0.004	No	11	0.0002068	36.36	None	No	0.006	NP (normality)
Beryllium (mg/L)	**PZ-58I**	**0.03855**	**0.02515**	**0.004**	**Yes**	**6**	**0.004876**	**0**	**None**	**No**	**0.01**	**Param.**
Beryllium (mg/L)	**PZ-60I**	**0.07698**	**0.06116**	**0.004**	**Yes**	**6**	**0.005757**	**0**	**None**	**No**	**0.01**	**Param.**
Beryllium (mg/L)	PZ-61I	0.001901	0.001379	0.004	No	6	0.0001896	0	None	No	0.01	Param.
Beryllium (mg/L)	PZ-63I	0.005	0.000286	0.004	No	5	0.002108	80	None	No	0.031	NP (NDs)
Beryllium (mg/L)	PZ-64I	0.004025	0	0.004	No	4	0.001011	0	None	No	0.01	Param.
Cadmium (mg/L)	BRGWC-27I	0.0003	0.00009	0.005	No	21	0.00006625	90.48	None	No	0.01	NP (NDs)
Cadmium (mg/L)	BRGWC-30I	0.0003	0.00014	0.005	No	21	0.00005793	90.48	None	No	0.01	NP (NDs)
Cadmium (mg/L)	BRGWC-32S	0.0003	0.00011	0.005	No	21	0.00007307	85.71	None	No	0.01	NP (NDs)
Cadmium (mg/L)	BRGWC-45	0.0003	0.0002	0.005	No	22	0.00006661	81.82	None	No	0.01	NP (NDs)
Cadmium (mg/L)	BRGWC-47	0.0003	0.00017	0.005	No	21	0.00006989	52.38	None	No	0.01	NP (NDs)
Cadmium (mg/L)	**BRGWC-50**	**0.02754**	**0.01063**	**0.005**	**Yes**	**20**	**0.02392**	**0**	**None**	**ln(x)**	**0.01**	**Param.**
Cadmium (mg/L)	PZ-51I	0.006611	0.00118	0.005	No	13	0.009226	0	None	ln(x)	0.01	Param.
Cadmium (mg/L)	PZ-58I	0.004806	0.003914	0.005	No	6	0.000325	0	None	No	0.01	Param.
Cadmium (mg/L)	**PZ-60I**	**0.01695**	**0.01408**	**0.005**	**Yes**	**6**	**0.001044**	**0**	**None**	**No**	**0.01**	**Param.**
Cadmium (mg/L)	PZ-61I	0.0009035	0.0001605	0.005	No	6	0.0002704	0	None	No	0.01	Param.
Cadmium (mg/L)	PZ-64I	0.001331	0.0008487	0.005	No	4	0.0001227	50	Kaplan-Meier	No	0.01	Param.

Confidence Intervals Summary Table - All Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 4/10/2024, 3:59 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Chromium (mg/L)	BRGWC-25I	0.003	0.0016	0.1	No	20	0.0005359	90	None	No	0.01	NP (NDs)
Chromium (mg/L)	BRGWC-27I	0.003	0.003	0.1	No	20	0.0004472	90	None	No	0.01	NP (NDs)
Chromium (mg/L)	BRGWC-29I	0.02	0.003	0.1	No	20	0.003801	95	None	No	0.01	NP (NDs)
Chromium (mg/L)	BRGWC-30I	0.0051	0.003	0.1	No	20	0.00248	90	None	No	0.01	NP (NDs)
Chromium (mg/L)	BRGWC-32S	0.003	0.0014	0.1	No	20	0.0007625	45	None	No	0.01	NP (normality)
Chromium (mg/L)	BRGWC-45	0.003	0.0014	0.1	No	21	0.0007385	85.71	None	No	0.01	NP (NDs)
Chromium (mg/L)	BRGWC-47	0.003	0.0018	0.1	No	21	0.0008162	80.95	None	No	0.01	NP (NDs)
Chromium (mg/L)	BRGWC-50	0.003	0.001	0.1	No	20	0.001097	65	None	No	0.01	NP (NDs)
Chromium (mg/L)	BRGWC-52I	0.003	0.0017	0.1	No	20	0.0002907	95	None	No	0.01	NP (NDs)
Chromium (mg/L)	PZ-51I	0.003	0.00098	0.1	No	11	0.0008545	81.82	None	No	0.006	NP (NDs)
Chromium (mg/L)	PZ-61I	0.0077	0.003	0.1	No	6	0.001919	83.33	None	No	0.0155	NP (NDs)
Cobalt (mg/L)	BRGWC-25I	0.00592	0.003641	0.014	No	20	0.002129	5	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	BRGWC-27I	0.0101	0.007256	0.014	No	21	0.002577	0	None	No	0.01	Param.
Cobalt (mg/L)	BRGWC-29I	0.009576	0.006825	0.014	No	20	0.002423	5	None	No	0.01	Param.
Cobalt (mg/L)	BRGWC-30I	0.00179	0.0008	0.014	No	21	0.006741	14.29	None	No	0.01	NP (normality)
Cobalt (mg/L)	BRGWC-32S	0.001	0.0003	0.014	No	21	0.0004965	90.48	None	No	0.01	NP (NDs)
Cobalt (mg/L)	BRGWC-45	0.01171	0.00497	0.014	No	22	0.01383	0	None	ln(x)	0.01	Param.
Cobalt (mg/L)	BRGWC-47	0.0016	0.0003	0.014	No	21	0.00299	28.57	None	No	0.01	NP (normality)
Cobalt (mg/L)	**BRGWC-50**	**1.42**	**1.35**	**0.014**	**Yes**	**20**	**0.06161**	**0**	**None**	**No**	**0.01**	**NP (normality)**
Cobalt (mg/L)	BRGWC-52I	0.0012	0.00063	0.014	No	20	0.0009416	55	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-44	0.001	0.000408	0.014	No	8	0.0002093	87.5	None	No	0.004	NP (NDs)
Cobalt (mg/L)	PZ-50D	0.2787	0.002943	0.014	No	8	0.1676	0	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	PZ-51D	0.00111	0.000306	0.014	No	8	0.0003467	37.5	None	No	0.004	NP (normality)
Cobalt (mg/L)	**PZ-51I**	**0.0259**	**0.018**	**0.014**	**Yes**	**13**	**0.00604**	**0**	**None**	**No**	**0.01**	**NP (normality)**
Cobalt (mg/L)	**PZ-58I**	**0.592**	**0.397**	**0.014**	**Yes**	**6**	**0.07098**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	**PZ-60I**	**3.826**	**3.401**	**0.014**	**Yes**	**6**	**0.1549**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	**PZ-61I**	**0.7533**	**0.439**	**0.014**	**Yes**	**6**	**0.1144**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	**PZ-63I**	**0.03457**	**0.01783**	**0.014**	**Yes**	**5**	**0.004996**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	**PZ-64I**	**12.08**	**8.176**	**0.014**	**Yes**	**4**	**0.8597**	**0**	**None**	**No**	**0.01**	**Param.**
Combined Radium 226 + 228 (pCi/L)	BRGWC-25I	1.803	0.7064	5	No	20	1.148	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-27I	1.609	0.7159	5	No	20	0.7865	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-29I	1.968	1.266	5	No	20	0.6182	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-30I	1.761	0.7452	5	No	20	1.037	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-32S	1.285	0.5456	5	No	20	0.6509	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-45	0.9279	0.455	5	No	21	0.4286	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-47	1.961	0.926	5	No	21	0.9382	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-50	2.19	1.186	5	No	20	1.082	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-52I	3.428	1.635	5	No	20	1.871	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-44	2.14	0.2393	5	No	8	1.05	0	None	x^(1/3)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-50D	3.347	0.9761	5	No	7	0.9979	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-51D	4.358	1.353	5	No	7	1.265	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-51I	3.48	0.8089	5	No	11	3.278	0	None	ln(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-58I	4.03	0.162	5	No	6	1.529	0	None	No	0.0155	NP (selected)
Combined Radium 226 + 228 (pCi/L)	PZ-60I	5.326	2.318	5	No	6	1.095	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-61I	3.298	0.5449	5	No	6	1.002	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-63I	6.093	0.2103	5	No	5	2.085	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-64I	3.5	0.877	5	No	4	1.209	0	None	No	0.0625	NP (selected)
Fluoride (mg/L)	BRGWC-25I	0.25	0.15	4	No	21	0.1233	4.762	None	No	0.01	NP (normality)
Fluoride (mg/L)	BRGWC-27I	0.2577	0.1713	4	No	21	0.0783	9.524	None	No	0.01	Param.
Fluoride (mg/L)	BRGWC-29I	0.1926	0.09711	4	No	21	0.1158	9.524	None	ln(x)	0.01	Param.
Fluoride (mg/L)	BRGWC-30I	0.3155	0.1391	4	No	21	0.2008	4.762	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	BRGWC-32S	0.11	0.09	4	No	21	0.04365	52.38	None	No	0.01	NP (NDs)
Fluoride (mg/L)	BRGWC-45	0.163	0.067	4	No	22	0.2143	45.45	None	No	0.01	NP (normality)
Fluoride (mg/L)	BRGWC-47	0.27	0.1	4	No	22	0.2406	45.45	None	No	0.01	NP (normality)
Fluoride (mg/L)	BRGWC-50	0.7458	0.3683	4	No	21	0.4143	0	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	BRGWC-52I	0.2246	0.1427	4	No	20	0.07204	5	None	No	0.01	Param.
Fluoride (mg/L)	PZ-44	0.2166	0.08206	4	No	8	0.0912	25	Kaplan-Meier	No	0.01	Param.
Fluoride (mg/L)	PZ-50D	0.2287	0.1093	4	No	8	0.05632	0	None	No	0.01	Param.
Fluoride (mg/L)	PZ-51D	0.3593	0.2372	4	No	8	0.05762	0	None	No	0.01	Param.
Fluoride (mg/L)	PZ-51I	0.12	0.0661	4	No	12	0.02326	58.33	None	No	0.01	NP (NDs)
Fluoride (mg/L)	PZ-58I	1.8	0.97	4	No	6	0.2949	0	None	No	0.0155	NP (normality)
Fluoride (mg/L)	PZ-60I	2.107	1.092	4	No	6	0.3906	0	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	PZ-61I	0.187	0.04981	4	No	6	0.05434	16.67	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride (mg/L)	PZ-63I	0.3213	0.1371	4	No	5	0.05497	0	None	No	0.01	Param.
Fluoride (mg/L)	PZ-64I	0.135	0.0767	4	No	4	0.03269	0	None	No	0.0625	NP (normality)
Lead (mg/L)	BRGWC-25I	0.0005	0.00011	0.015	No	20	0.00008721	95	None	No	0.01	NP (NDs)
Lead (mg/L)	BRGWC-27I	0.0005	0.000063	0.015	No	20	0.00009772	95	None	No	0.01	NP (NDs)
Lead (mg/L)	BRGWC-29I	0.0005	0.00029	0.015	No	19	0.0001143	31.58	None	No	0.01	NP (normality)

Confidence Intervals Summary Table - All Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 4/10/2024, 3:59 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lead (mg/L)	BRGWC-30I	0.0005	0.00011	0.015	No	20	0.00008721	95	None	No	0.01	NP (NDs)
Lead (mg/L)	BRGWC-45	0.000595	0.00026	0.015	No	21	0.0001252	80.95	None	No	0.01	NP (NDs)
Lead (mg/L)	BRGWC-47	0.0005	0.00012	0.015	No	21	0.0001518	85.71	None	No	0.01	NP (NDs)
Lead (mg/L)	BRGWC-50	0.0005	0.00015	0.015	No	20	0.0001889	60	None	No	0.01	NP (NDs)
Lead (mg/L)	BRGWC-52I	0.0005	0.000042	0.015	No	20	0.0001024	95	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-50D	0.0005	0.000056	0.015	No	7	0.0001678	85.71	None	No	0.008	NP (NDs)
Lead (mg/L)	PZ-51D	0.0005	0.00013	0.015	No	7	0.0001398	85.71	None	No	0.008	NP (NDs)
Lead (mg/L)	PZ-51I	0.0005	0.00036	0.015	No	11	0.0001041	81.82	None	No	0.006	NP (NDs)
Lead (mg/L)	PZ-58I	0.005	0.000825	0.015	No	6	0.002134	33.33	None	No	0.0155	NP (normality)
Lead (mg/L)	PZ-61I	0.0019	0.0005	0.015	No	6	0.0005779	66.67	None	No	0.0155	NP (NDs)
Lithium (mg/L)	BRGWC-27I	0.001511	0.001164	0.089	No	20	0.00075	30	Kaplan-Meier	ln(x)	0.01	Param.
Lithium (mg/L)	BRGWC-29I	0.003571	0.00308	0.089	No	20	0.000432	0	None	No	0.01	Param.
Lithium (mg/L)	BRGWC-30I	0.02042	0.01333	0.089	No	20	0.006242	0	None	No	0.01	Param.
Lithium (mg/L)	BRGWC-32S	0.0043	0.0021	0.089	No	20	0.006938	10	None	No	0.01	NP (normality)
Lithium (mg/L)	BRGWC-45	0.003447	0.002916	0.089	No	20	0.0004679	15	None	No	0.01	Param.
Lithium (mg/L)	BRGWC-47	0.04583	0.04141	0.089	No	21	0.004013	0	None	No	0.01	Param.
Lithium (mg/L)	BRGWC-50	0.04423	0.03857	0.089	No	20	0.005145	0	None	sqrt(x)	0.01	Param.
Lithium (mg/L)	BRGWC-52I	0.01003	0.004068	0.089	No	20	0.006263	5	None	sqrt(x)	0.01	Param.
Lithium (mg/L)	PZ-44	0.006581	0.004636	0.089	No	8	0.0009174	0	None	No	0.01	Param.
Lithium (mg/L)	PZ-50D	0.02712	0.01988	0.089	No	7	0.003046	0	None	No	0.01	Param.
Lithium (mg/L)	PZ-51D	0.00977	0.006905	0.089	No	7	0.002043	0	None	x^6	0.01	Param.
Lithium (mg/L)	PZ-51I	0.02343	0.01957	0.089	No	11	0.00232	0	None	No	0.01	Param.
Lithium (mg/L)	PZ-58I	0.05501	0.03956	0.089	No	6	0.005624	0	None	No	0.01	Param.
Lithium (mg/L)	**PZ-60I**	**0.1103**	**0.09052**	**0.089**	**Yes**	**6**	**0.007192**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	PZ-61I	0.012	0.008831	0.089	No	6	0.001152	0	None	No	0.01	Param.
Lithium (mg/L)	PZ-63I	0.007338	0.00443	0.089	No	5	0.0008677	0	None	No	0.01	Param.
Lithium (mg/L)	PZ-64I	0.02208	0.002732	0.089	No	4	0.003416	0	None	x^2	0.01	Param.
Mercury (mg/L)	BRGWC-25I	0.000083	0.00004	0.002	No	18	0.000007586	88.89	None	No	0.01	NP (NDs)
Mercury (mg/L)	BRGWC-27I	0.000067	0.00005	0.002	No	18	0.000006005	88.89	None	No	0.01	NP (NDs)
Mercury (mg/L)	BRGWC-29I	0.00078	0.000098	0.002	No	18	0.0001509	77.78	None	No	0.01	NP (NDs)
Mercury (mg/L)	BRGWC-30I	0.00007	0.00004	0.002	No	18	0.000007509	83.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	BRGWC-32S	0.000082	0.000067	0.002	No	18	0.000009588	83.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	PZ-51I	0.000067	0.000067	0.002	No	11	0.000009648	90.91	None	No	0.006	NP (NDs)
Mercury (mg/L)	PZ-58I	0.00146	0.0002	0.002	No	6	0.0005144	83.33	None	No	0.0155	NP (NDs)
Molybdenum (mg/L)	BRGWC-25I	0.01	0.00092	0.1	No	19	0.004598	52.63	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	BRGWC-27I	0.001	0.000213	0.1	No	19	0.0001806	94.74	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	BRGWC-30I	0.01	0.0012	0.1	No	19	0.004417	57.89	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	BRGWC-45	0.000356	0.0002	0.1	No	20	0.0001495	80	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	BRGWC-47	0.01	0.000296	0.1	No	20	0.003987	80	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	BRGWC-50	0.0022	0.0002	0.1	No	19	0.0008247	89.47	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	BRGWC-52I	0.01	0.0007	0.1	No	19	0.004166	36.84	None	No	0.01	NP (normality)
Molybdenum (mg/L)	PZ-50D	0.001835	0.000521	0.1	No	7	0.0005531	14.29	None	No	0.01	Param.
Molybdenum (mg/L)	PZ-51D	0.004493	0.0008093	0.1	No	7	0.002003	0	None	x^(1/3)	0.01	Param.
Molybdenum (mg/L)	PZ-51I	0.001	0.000283	0.1	No	11	0.000344	72.73	None	No	0.006	NP (NDs)
Molybdenum (mg/L)	PZ-63I	0.0009751	0.0005061	0.1	No	5	0.00014	0	None	No	0.01	Param.
Molybdenum (mg/L)	PZ-64I	0.000432	0.0002	0.1	No	4	0.0001158	50	None	No	0.0625	NP (normality)
Selenium (mg/L)	BRGWC-25I	0.0021	0.0015	0.05	No	20	0.0001342	95	None	No	0.01	NP (NDs)
Selenium (mg/L)	BRGWC-27I	0.0036	0.0015	0.05	No	20	0.001189	45	None	No	0.01	NP (normality)
Selenium (mg/L)	BRGWC-29I	0.005	0.0042	0.05	No	20	0.001364	55	None	No	0.01	NP (NDs)
Selenium (mg/L)	BRGWC-30I	0.0018	0.0015	0.05	No	20	0.0008938	80	None	No	0.01	NP (NDs)
Selenium (mg/L)	**BRGWC-32S**	**0.182**	**0.1028**	**0.05**	**Yes**	**13**	**0.05326**	**0**	**None**	**No**	**0.01**	**Param.**
Selenium (mg/L)	BRGWC-45	0.0029	0.0015	0.05	No	21	0.0003055	95.24	None	No	0.01	NP (NDs)
Selenium (mg/L)	BRGWC-47	0.0016	0.0015	0.05	No	21	0.0003097	71.43	None	No	0.01	NP (NDs)
Selenium (mg/L)	BRGWC-50	0.0022	0.0015	0.05	No	20	0.0007528	50	None	No	0.01	NP (normality)
Selenium (mg/L)	PZ-58I	0.004737	0.001723	0.05	No	6	0.001097	0	None	No	0.01	Param.
Selenium (mg/L)	PZ-60I	0.004935	0.002338	0.05	No	6	0.0009454	0	None	No	0.01	Param.
Selenium (mg/L)	PZ-61I	0.007183	0.001634	0.05	No	6	0.00202	0	None	No	0.01	Param.
Selenium (mg/L)	PZ-64I	0.0373	0	0.05	No	4	0.00862	0	None	No	0.01	Param.
Thallium (mg/L)	BRGWC-29I	0.0006	0.00017	0.002	No	20	0.0002067	35	None	No	0.01	NP (normality)

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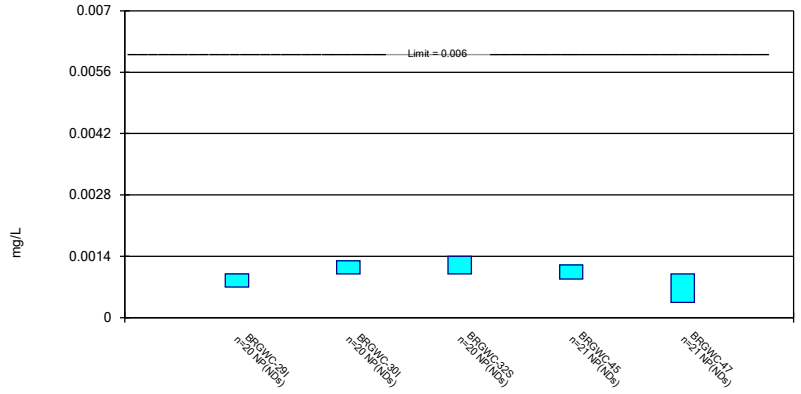
Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Antimony Analysis Run 4/10/2024 3:50 PM View: Pond BCD Appendix IV - Confidence Interv
Plant Branch Client: Southern Company Data: Plant Branch AP

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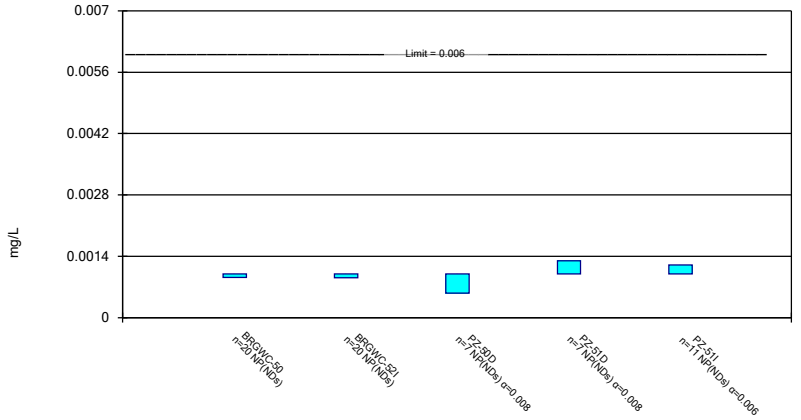
Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Antimony Analysis Run 4/10/2024 3:50 PM View: Pond BCD Appendix IV - Confidence Interv
Plant Branch Client: Southern Company Data: Plant Branch AP

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Non-Parametric Confidence Interval

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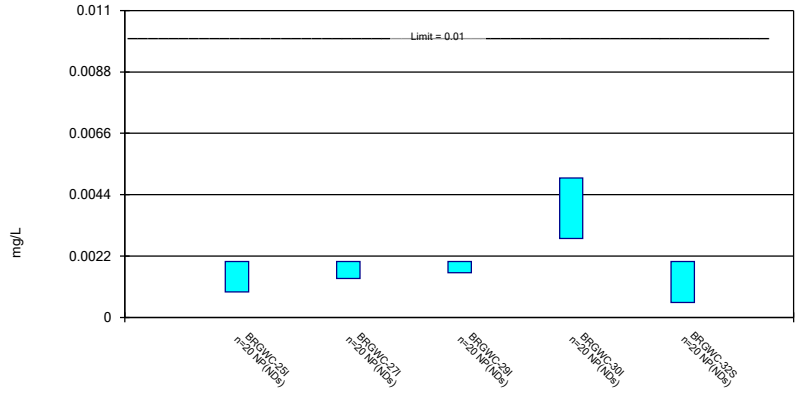

Constituent: Arsenic Analysis Run 4/10/2024 3:50 PM View: Pond BCD Appendix IV - Confidence Interval
Plant Branch Client: Southern Company Data: Plant Branch AP

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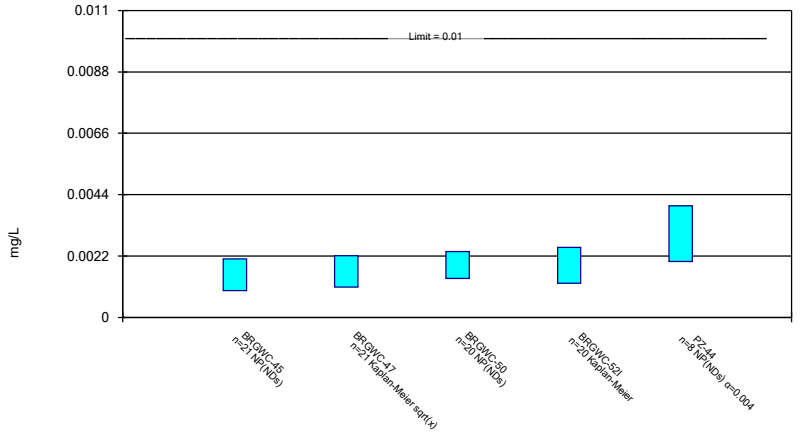
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 4/10/2024 3:50 PM View: Pond BCD Appendix IV - Confidence Interval
Plant Branch Client: Southern Company Data: Plant Branch AP

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Parametric and Non-Parametric (NP) Confidence Interval

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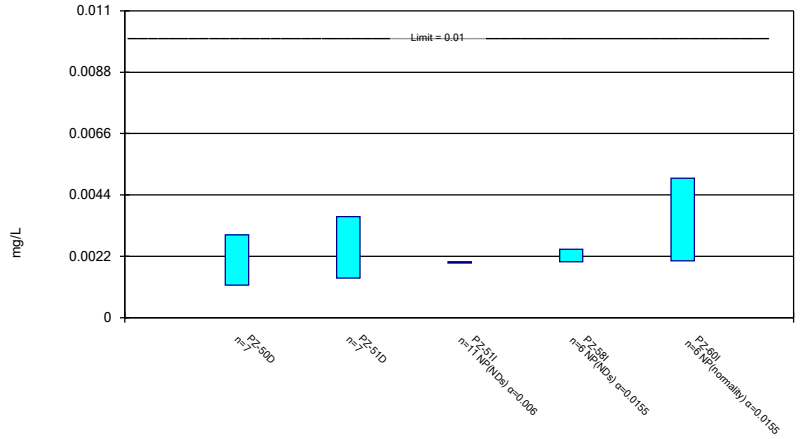

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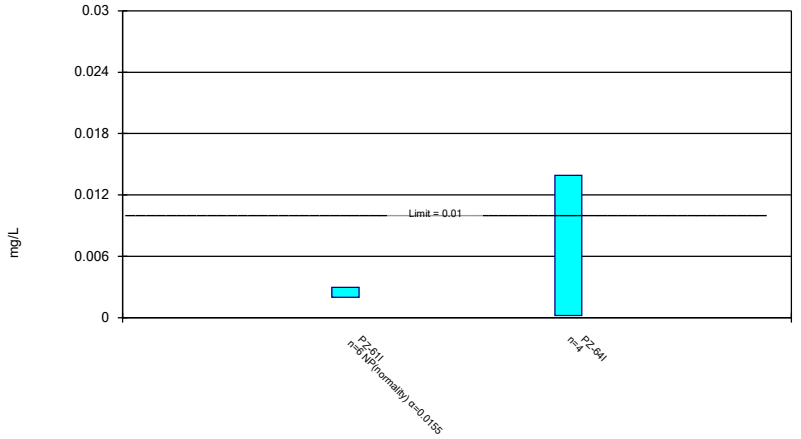
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



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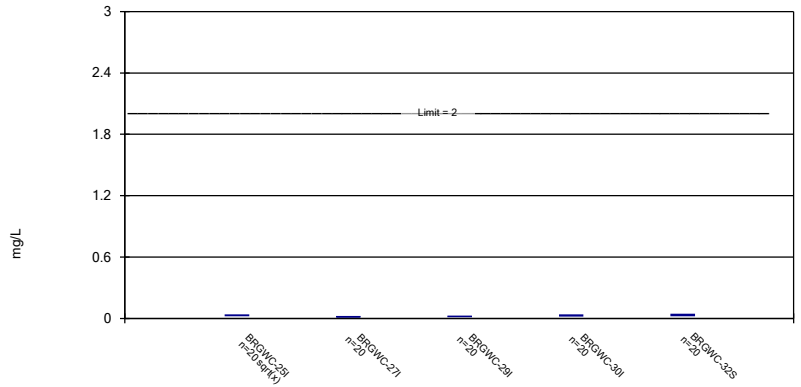
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

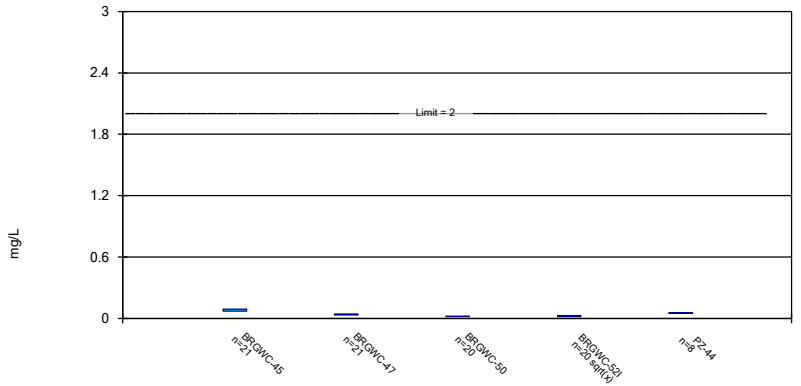


Constituent: Barium Analysis Run 4/10/2024 3:50 PM View: Pond BCD Appendix IV - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

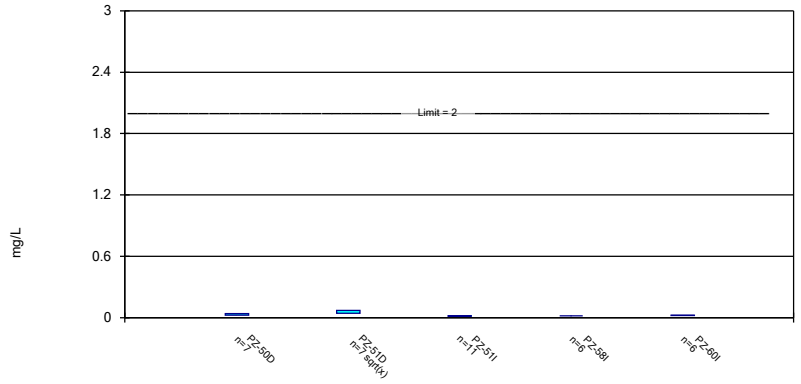


Constituent: Barium Analysis Run 4/10/2024 3:50 PM View: Pond BCD Appendix IV - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

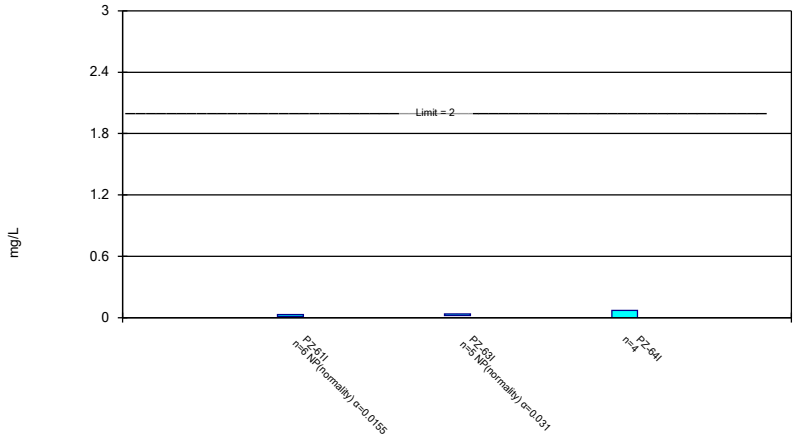


Constituent: Barium Analysis Run 4/10/2024 3:50 PM View: Pond BCD Appendix IV - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

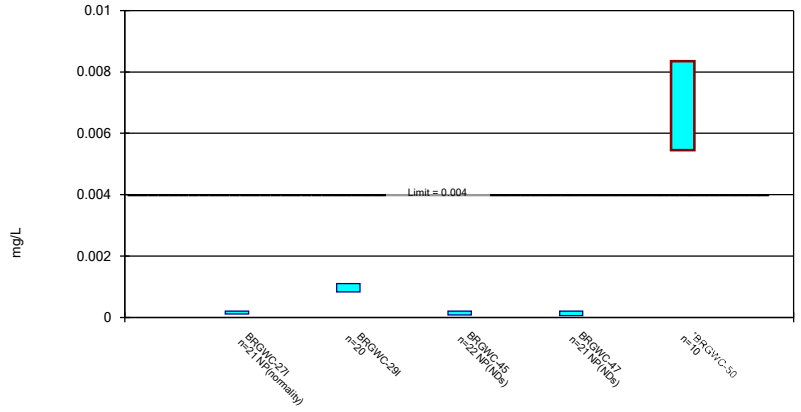


Constituent: Barium Analysis Run 4/10/2024 3:50 PM View: Pond BCD Appendix IV - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

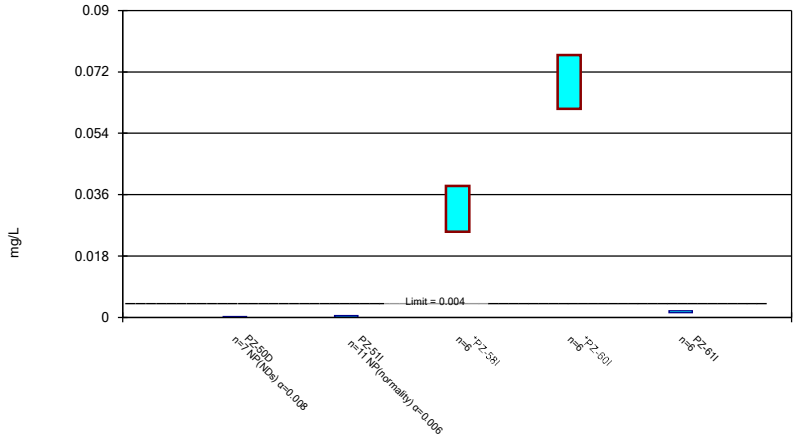


Constituent: Beryllium Analysis Run 4/10/2024 3:50 PM View: Pond BCD Appendix IV - Confidence Interv
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

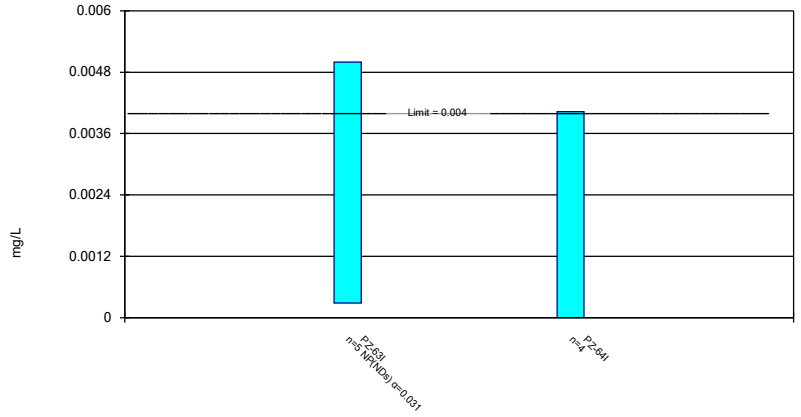


Constituent: Beryllium Analysis Run 4/10/2024 3:50 PM View: Pond BCD Appendix IV - Confidence Interv
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

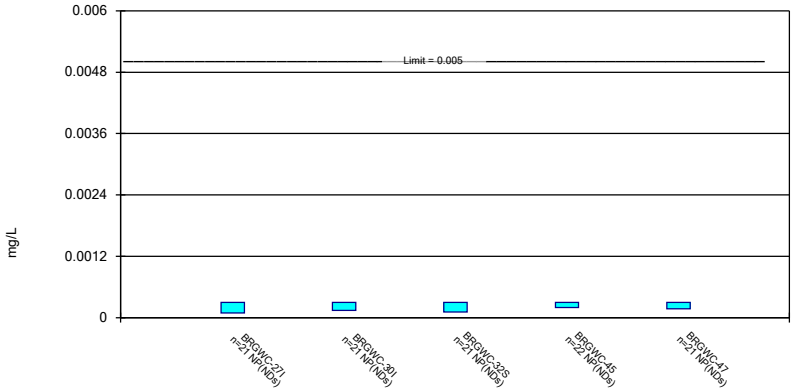


Constituent: Beryllium Analysis Run 4/10/2024 3:50 PM View: Pond BCD Appendix IV - Confidence Interv
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

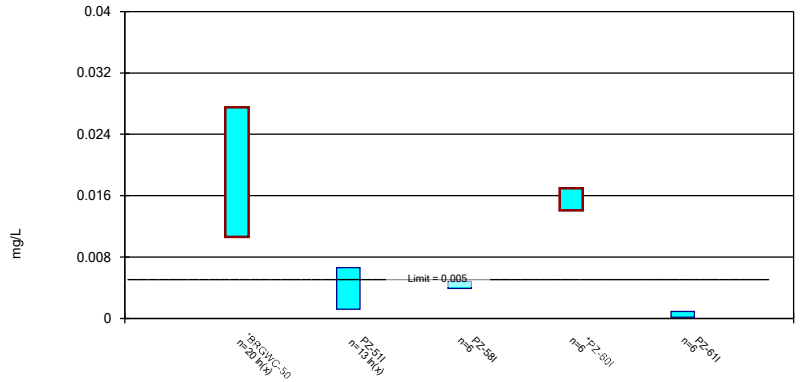


Constituent: Cadmium Analysis Run 4/10/2024 3:50 PM View: Pond BCD Appendix IV - Confidence Interv
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Parametric Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

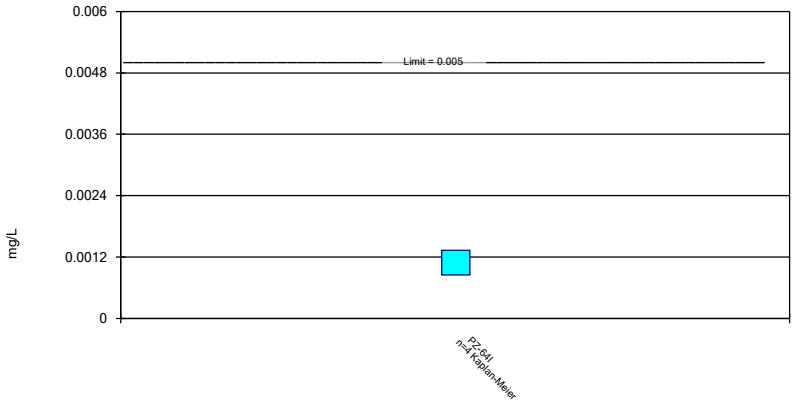


Constituent: Cadmium Analysis Run 4/10/2024 3:50 PM View: Pond BCD Appendix IV - Confidence Interv
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

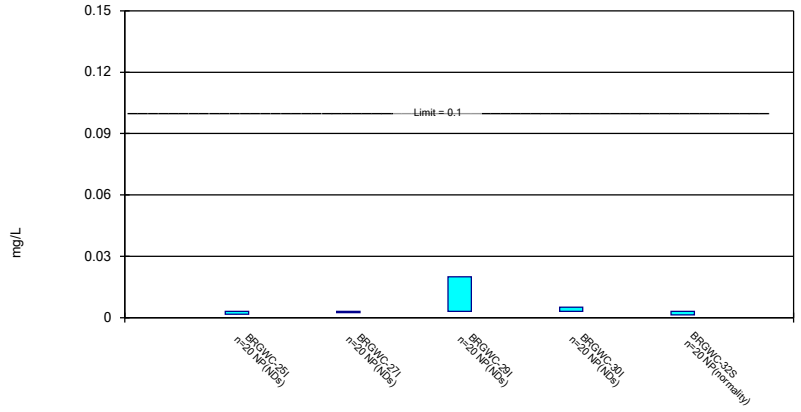


Constituent: Cadmium Analysis Run 4/10/2024 3:50 PM View: Pond BCD Appendix IV - Confidence Interv
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

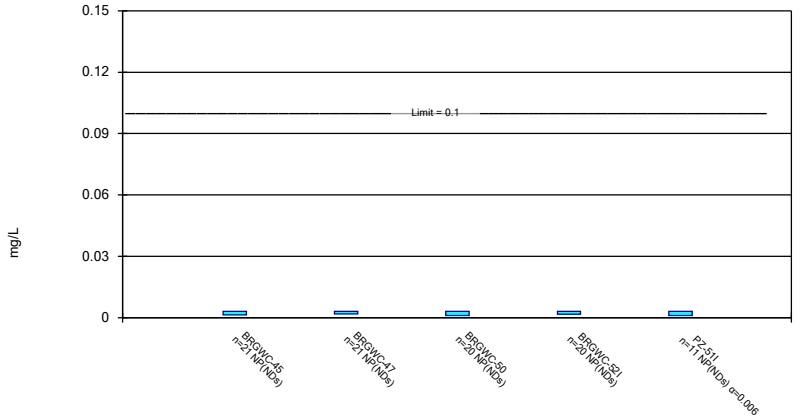


Constituent: Chromium Analysis Run 4/10/2024 3:51 PM View: Pond BCD Appendix IV - Confidence Inter
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Chromium Analysis Run 4/10/2024 3:51 PM View: Pond BCD Appendix IV - Confidence Inter
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Non-Parametric Confidence Interval

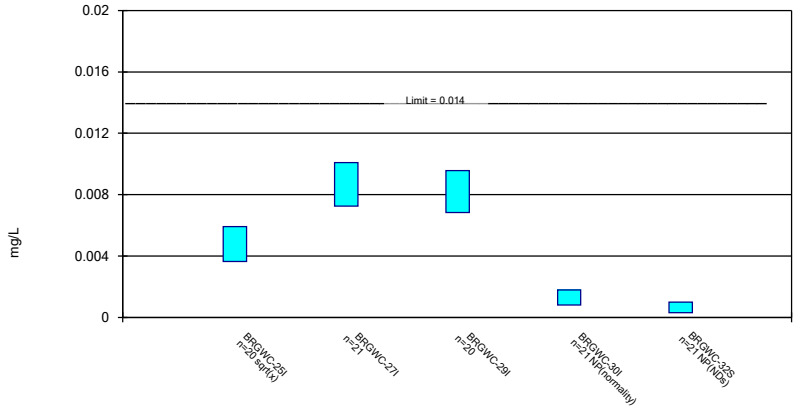
Compliance Limit is not exceeded.

Constituent: Chromium Analysis Run 4/10/2024 3:51 PM View: Pond BCD Appendix IV - Confidence Inter
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

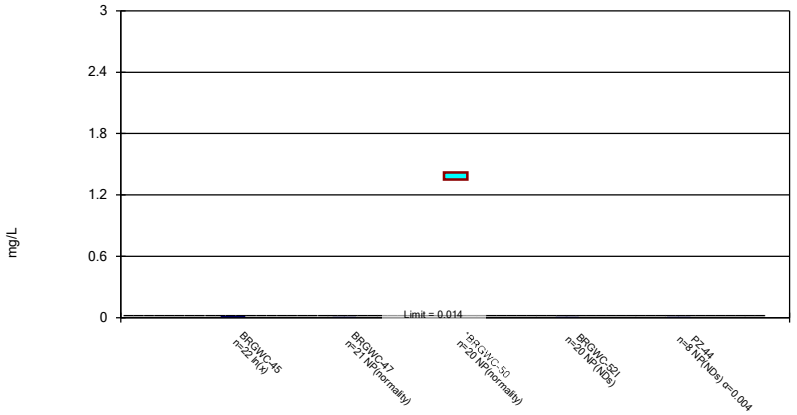


Constituent: Cobalt Analysis Run 4/10/2024 3:51 PM View: Pond BCD Appendix IV - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

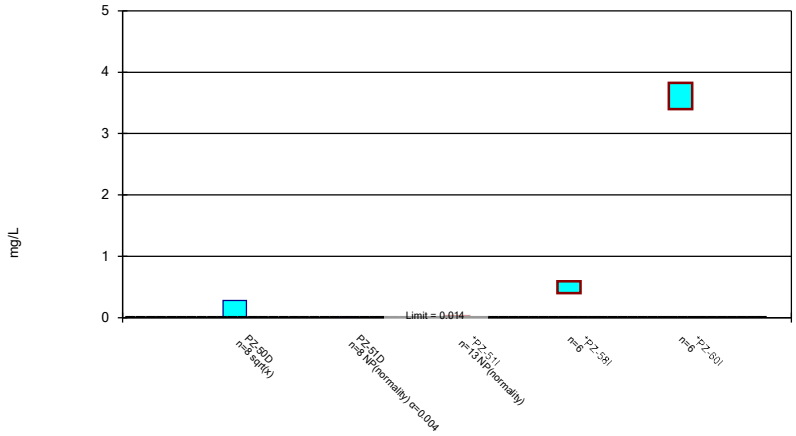


Constituent: Cobalt Analysis Run 4/10/2024 3:51 PM View: Pond BCD Appendix IV - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

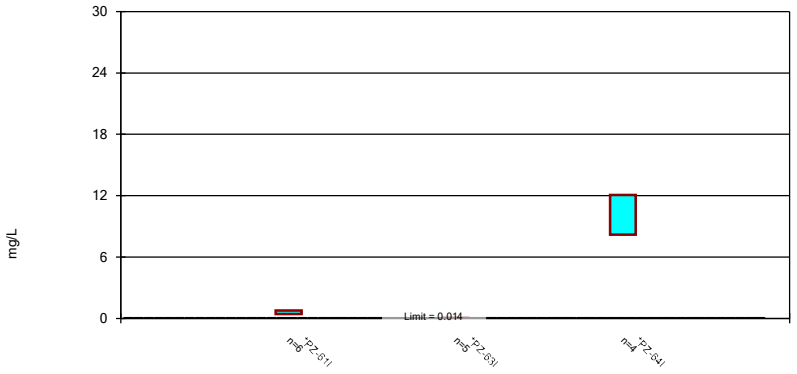


Constituent: Cobalt Analysis Run 4/10/2024 3:51 PM View: Pond BCD Appendix IV - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Parametric Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

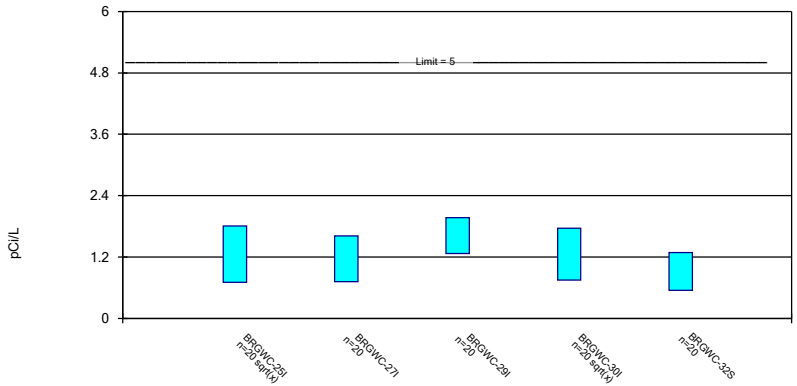


Constituent: Cobalt Analysis Run 4/10/2024 3:51 PM View: Pond BCD Appendix IV - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

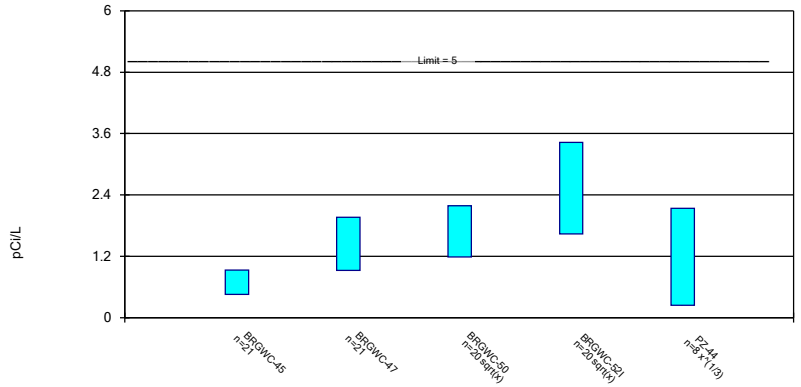


Constituent: Combined Radium 226 + 228 Analysis Run 4/10/2024 3:51 PM View: Pond BCD Appendix IV
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

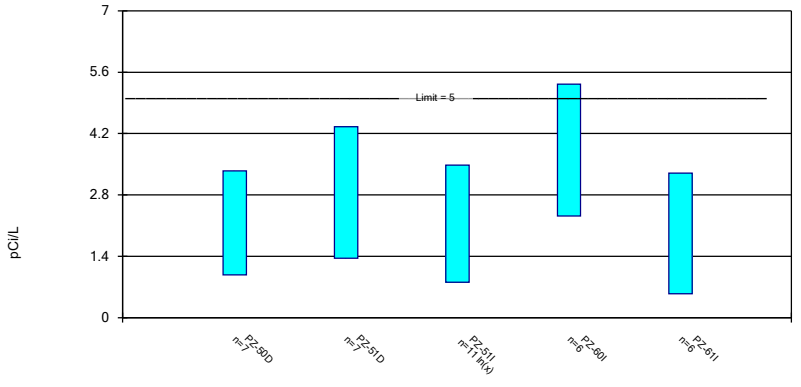


Constituent: Combined Radium 226 + 228 Analysis Run 4/10/2024 3:51 PM View: Pond BCD Appendix IV
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

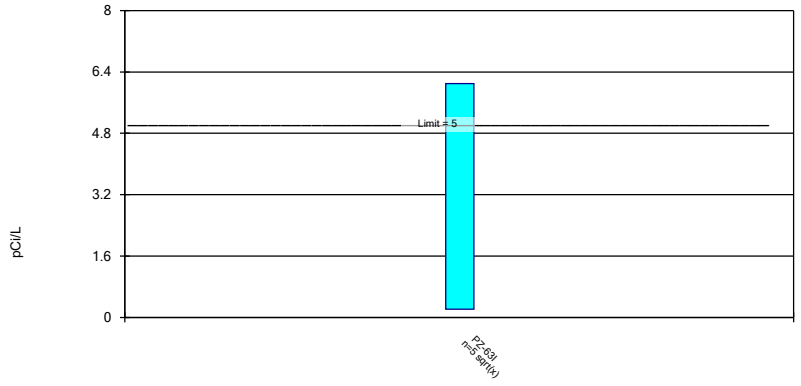


Constituent: Combined Radium 226 + 228 Analysis Run 4/10/2024 3:51 PM View: Pond BCD Appendix IV
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

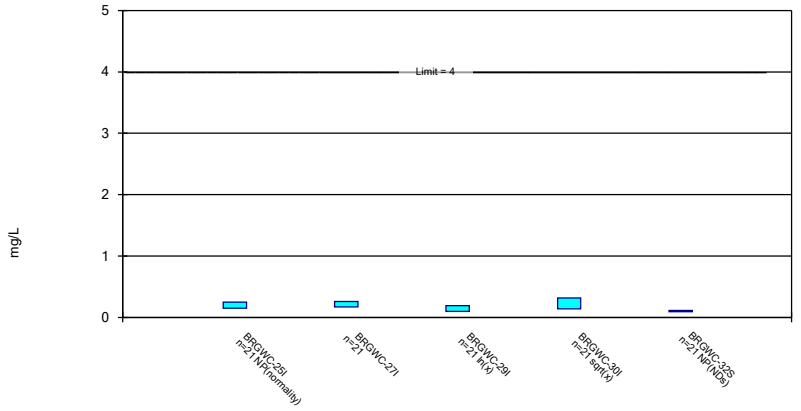


Constituent: Combined Radium 226 + 228 Analysis Run 4/10/2024 3:51 PM View: Pond BCD Appendix IV
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

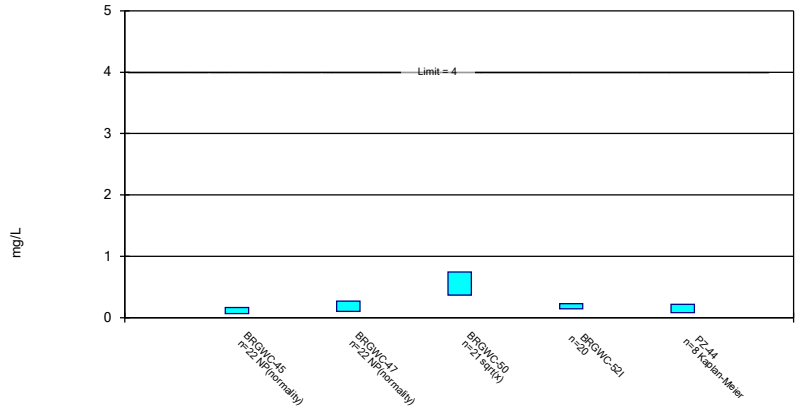


Constituent: Fluoride Analysis Run 4/10/2024 3:51 PM View: Pond BCD Appendix IV - Confidence Interval
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

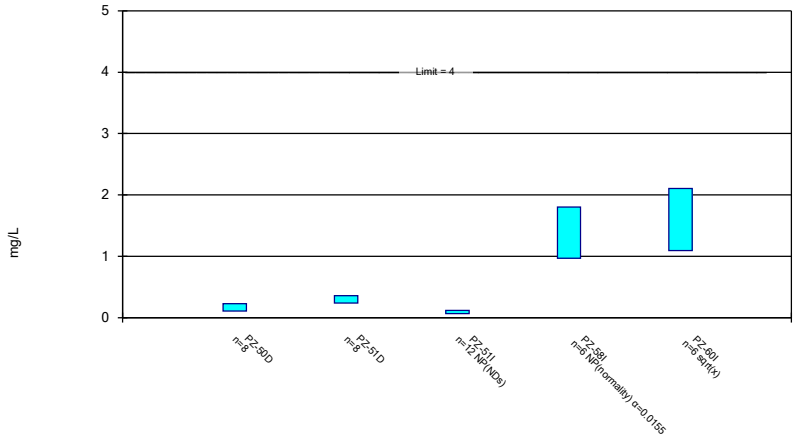


Constituent: Fluoride Analysis Run 4/10/2024 3:51 PM View: Pond BCD Appendix IV - Confidence Interval
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

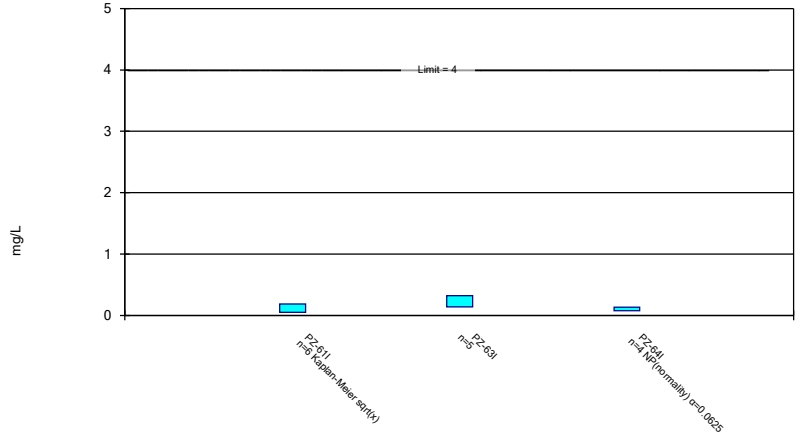


Constituent: Fluoride Analysis Run 4/10/2024 3:51 PM View: Pond BCD Appendix IV - Confidence Interval
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

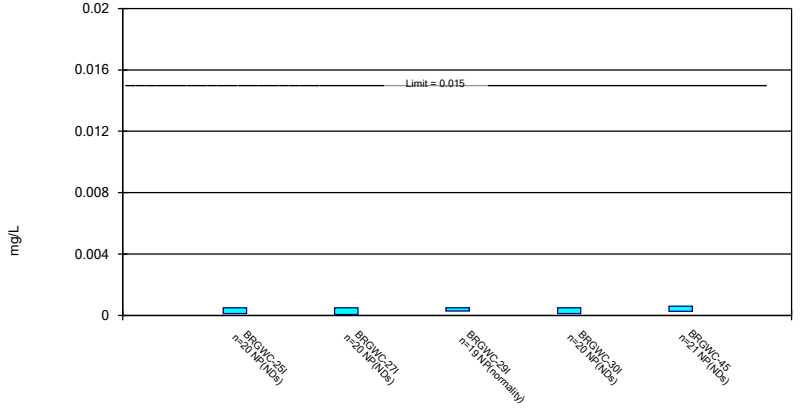


Constituent: Fluoride Analysis Run 4/10/2024 3:51 PM View: Pond BCD Appendix IV - Confidence Interval
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

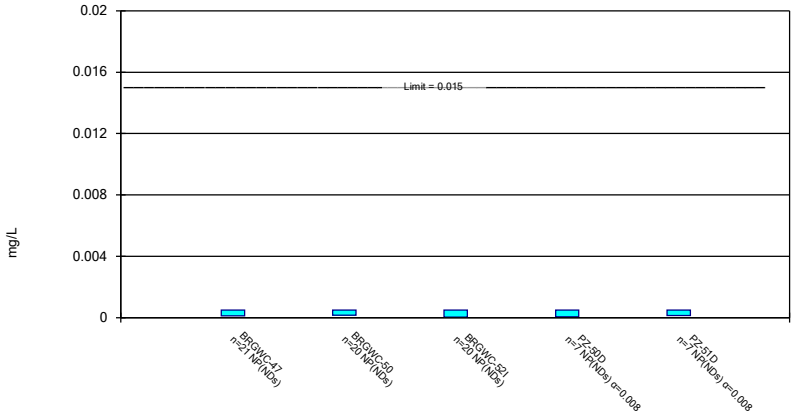


Constituent: Lead Analysis Run 4/10/2024 3:51 PM View: Pond BCD Appendix IV - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.

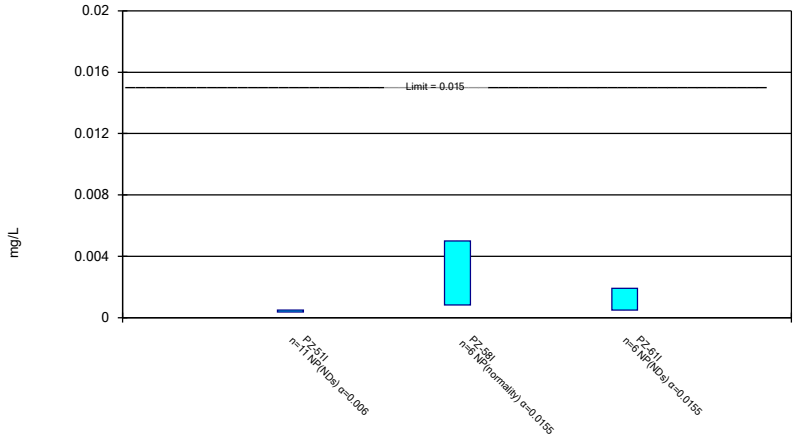


Constituent: Lead Analysis Run 4/10/2024 3:51 PM View: Pond BCD Appendix IV - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.

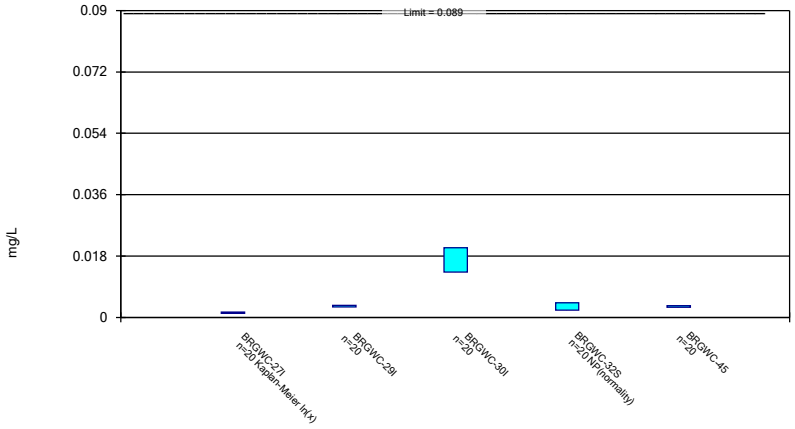


Constituent: Lead Analysis Run 4/10/2024 3:51 PM View: Pond BCD Appendix IV - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

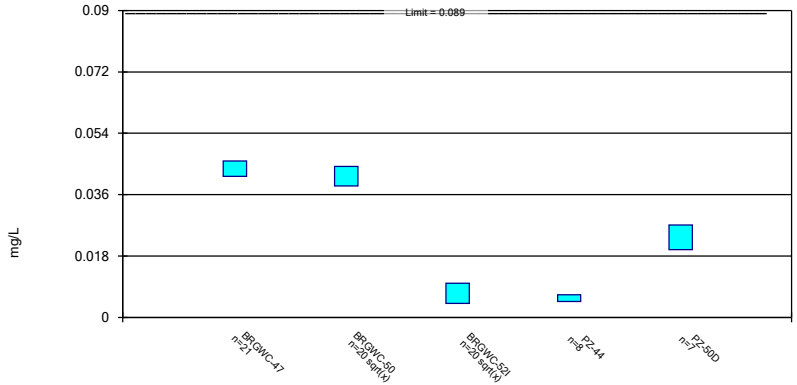


Constituent: Lithium Analysis Run 4/10/2024 3:51 PM View: Pond BCD Appendix IV - Confidence Interval
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

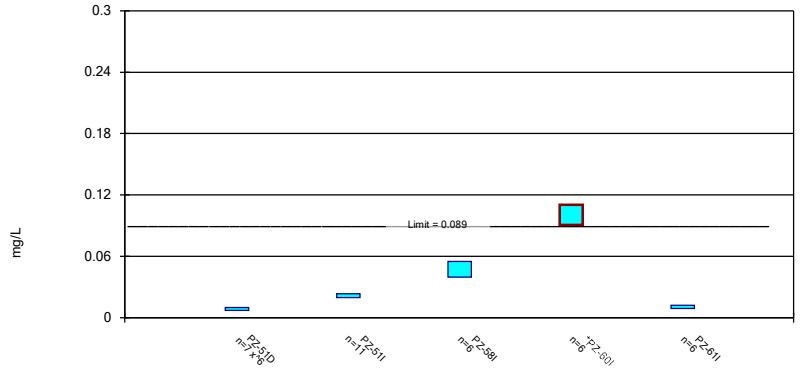


Constituent: Lithium Analysis Run 4/10/2024 3:51 PM View: Pond BCD Appendix IV - Confidence Interval
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Parametric Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

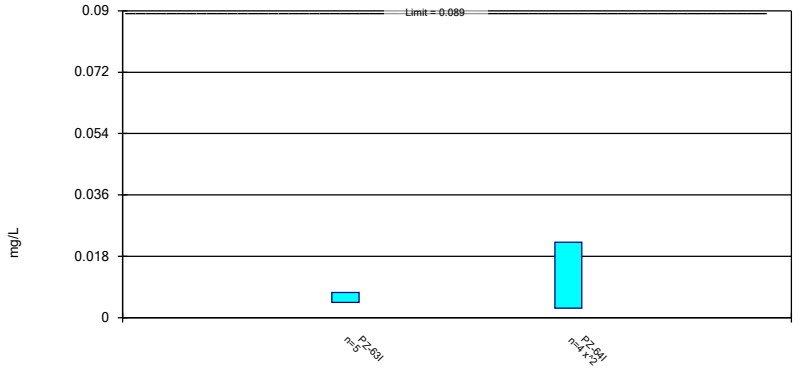


Constituent: Lithium Analysis Run 4/10/2024 3:51 PM View: Pond BCD Appendix IV - Confidence Interval
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

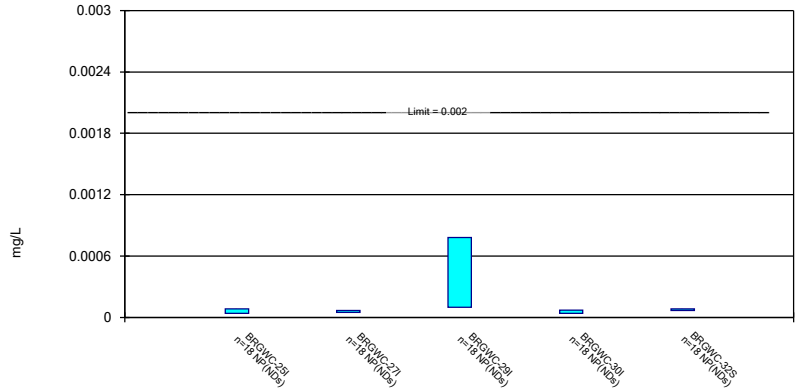


Constituent: Lithium Analysis Run 4/10/2024 3:51 PM View: Pond BCD Appendix IV - Confidence Interval
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

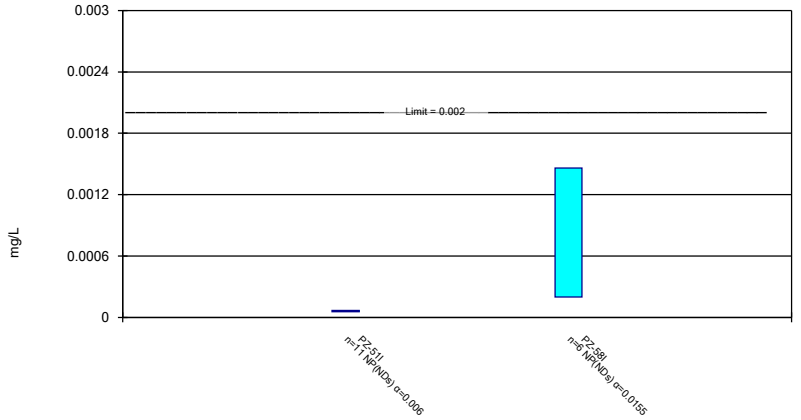


Constituent: Mercury Analysis Run 4/10/2024 3:51 PM View: Pond BCD Appendix IV - Confidence Interval
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.

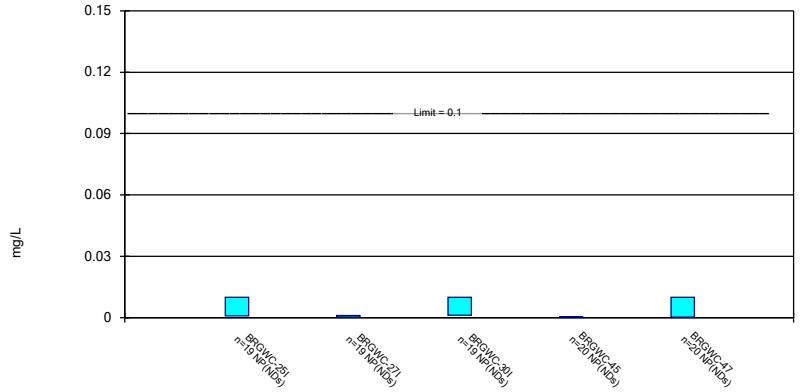


Constituent: Mercury Analysis Run 4/10/2024 3:51 PM View: Pond BCD Appendix IV - Confidence Interval
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

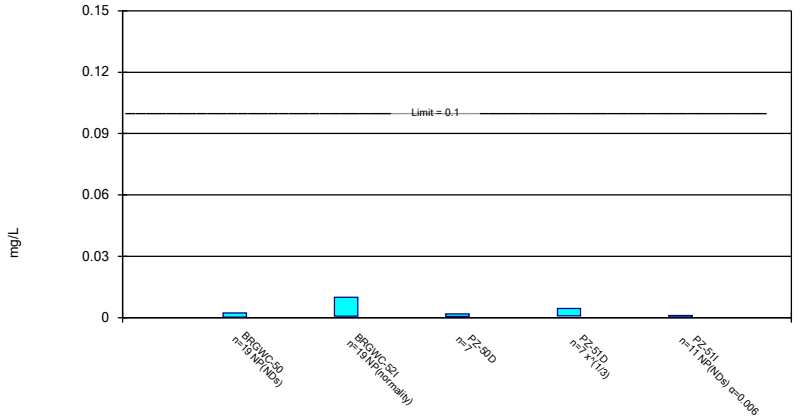


Constituent: Molybdenum Analysis Run 4/10/2024 3:51 PM View: Pond BCD Appendix IV - Confidence Int
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

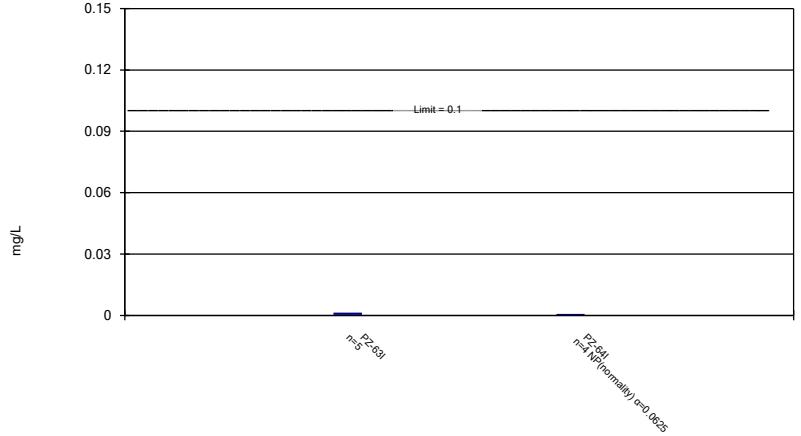


Constituent: Molybdenum Analysis Run 4/10/2024 3:51 PM View: Pond BCD Appendix IV - Confidence Int
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

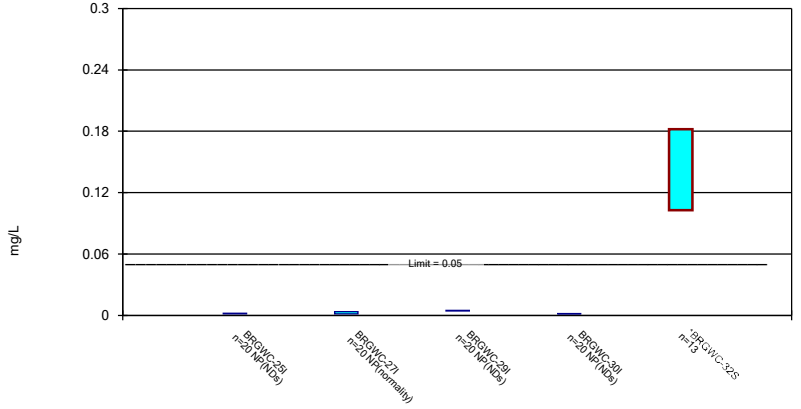


Constituent: Molybdenum Analysis Run 4/10/2024 3:51 PM View: Pond BCD Appendix IV - Confidence Int
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

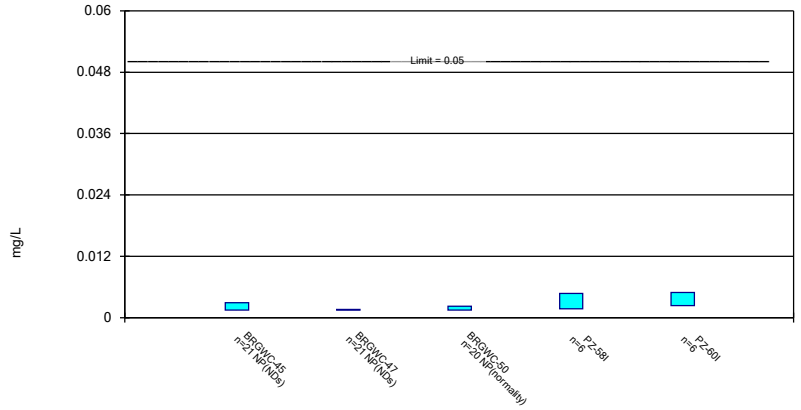


Constituent: Selenium Analysis Run 4/10/2024 3:51 PM View: Pond BCD Appendix IV - Confidence Interv
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

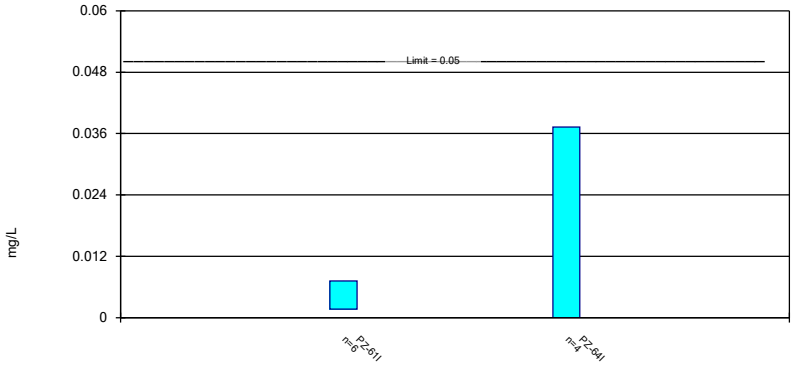


Constituent: Selenium Analysis Run 4/10/2024 3:51 PM View: Pond BCD Appendix IV - Confidence Interv
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

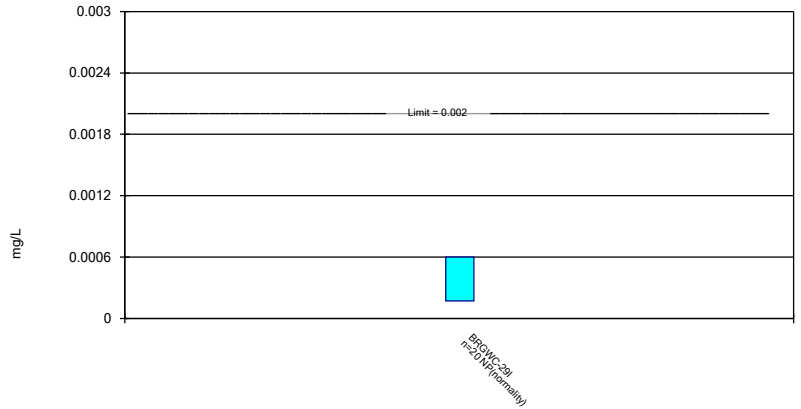


Constituent: Selenium Analysis Run 4/10/2024 3:51 PM View: Pond BCD Appendix IV - Confidence Interv
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Non-Parametric Confidence Interval

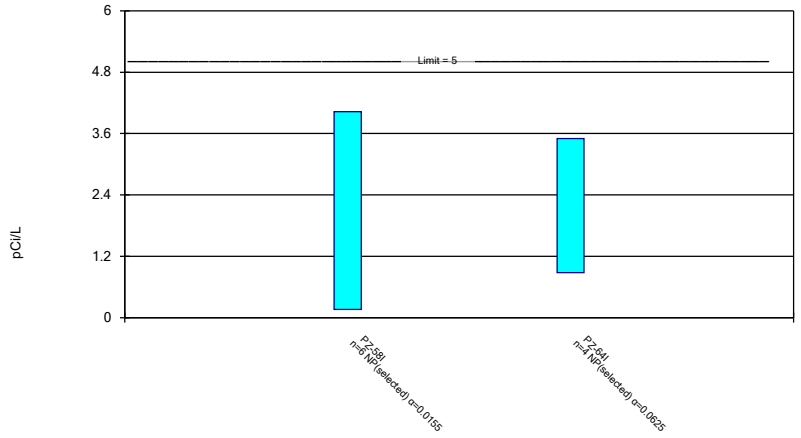
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Thallium Analysis Run 4/10/2024 3:51 PM View: Pond BCD Appendix IV - Confidence Interva
Plant Branch Client: Southern Company Data: Plant Branch AP

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Normality testing disabled.

Constituent: Combined Radium 226 + 228 Analysis Run 4/10/2024 3:54 PM View: Pond BCD - Confidenc

Plant Branch Client: Southern Company Data: Plant Branch AP

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 4/10/2024 3:59 PM View: Pond BCD Appendix IV - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47
9/6/2016		<0.001			
9/8/2016	<0.001		<0.001		
11/21/2016	<0.001	<0.001	<0.001		
2/22/2017	<0.001	<0.001	<0.001		
6/14/2017	0.0007 (J)	<0.001	<0.001		
9/27/2017	<0.001	<0.001	<0.001		
2/14/2018	<0.001	<0.001	<0.001		
3/6/2018				<0.001	<0.001
5/1/2018				<0.001	<0.001 (D)
6/27/2018	<0.001		<0.001		<0.001
6/28/2018		<0.001		<0.001	
7/31/2018				<0.001	
8/1/2018					<0.001
8/23/2018				<0.001	<0.001
9/19/2018				<0.001	<0.001
10/29/2018				<0.001	<0.001
11/28/2018				<0.001	<0.001
12/18/2018	<0.001	<0.001			
12/19/2018			<0.001		<0.001
12/20/2018				0.0024 (J)	
8/27/2019		<0.001	<0.001		
8/28/2019	<0.001			0.00046 (J)	<0.001
10/16/2019	<0.001				<0.001
12/3/2019				0.00088 (J)	
12/4/2019		<0.001	<0.001		
3/4/2020	<0.001				<0.001
3/5/2020		<0.001	0.0014 (J)	0.0016 (J)	
8/19/2020	<0.001	<0.001	<0.001		
8/20/2020				0.0031	<0.001
9/15/2020	<0.001				
9/16/2020		<0.001	<0.001	0.0012 (J)	0.00035 (J)
3/2/2021				0.0014 (J)	<0.001
3/3/2021	<0.001	<0.001			
3/4/2021			<0.001		
9/23/2021				<0.001	<0.001
9/28/2021	<0.001	<0.001	<0.001		
2/2/2022		0.0013 (J)	<0.001	<0.001	<0.001
2/3/2022	<0.001				
8/23/2022					<0.001
8/24/2022	<0.001	<0.001			
8/25/2022			<0.001	<0.001	
1/24/2023			<0.001		
1/25/2023				<0.001	
1/26/2023	<0.001	<0.001			<0.001
8/31/2023		<0.001	<0.001		
9/6/2023	<0.001			<0.001	<0.001
2/10/2024		<0.001	<0.001		<0.001
2/13/2024	<0.001				
2/14/2024				<0.001	
Mean	0.000985	0.001015	0.00102	0.001192	0.000969
Std. Dev.	6.708E-05	6.708E-05	8.944E-05	0.0005683	0.0001418
Upper Lim.	0.001	0.0013	0.0014	0.0012	0.001

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 4/10/2024 3:59 PM View: Pond BCD Appendix IV - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47
Lower Lim.	0.0007	0.001	0.001	0.00088	0.00035

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 4/10/2024 3:59 PM View: Pond BCD Appendix IV - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-50	BRGWC-52I	PZ-50D	PZ-51D	PZ-51I
3/15/2018	<0.001				
5/1/2018	<0.001				
6/28/2018	<0.001				
8/1/2018	<0.001				
8/10/2018		<0.001			
8/23/2018		0.00085 (J)			
9/19/2018		<0.001			
10/29/2018	<0.001	<0.001			
11/28/2018	<0.001	<0.001			
12/19/2018	<0.001				
12/20/2018		<0.001			
1/16/2019	<0.001				
1/17/2019		<0.001			
1/19/2019					<0.001
2/13/2019		<0.001			
8/29/2019	0.00052 (J)	<0.001			
10/16/2019	<0.001	<0.001			
10/18/2019					<0.001
3/4/2020	<0.001	0.00043 (J)			
8/20/2020	<0.001	<0.001			0.0017 (J)
9/17/2020	0.00041 (J)	<0.001			<0.001
3/3/2021				0.0013 (J)	
3/4/2021	0.00092 (J)	0.00091 (J)			0.00079 (J)
3/5/2021			0.00056 (J)		
9/27/2021	<0.001				0.0012 (J)
9/28/2021		<0.001	<0.001	<0.001	
2/2/2022		<0.001			<0.001
2/3/2022	<0.001		<0.001	<0.001	
8/24/2022	<0.001			<0.001	<0.001
8/25/2022		<0.001	<0.001		
1/25/2023	<0.001	<0.001			
1/26/2023				<0.001	<0.001
1/27/2023			<0.001		
9/6/2023		<0.001		<0.001	
9/8/2023	<0.001		<0.001		<0.001
2/14/2024	<0.001	<0.001	<0.001	<0.001	<0.001
Mean	0.0009425	0.0009595	0.0009371	0.001043	0.001063
Std. Dev.	0.0001652	0.0001303	0.0001663	0.0001134	0.0002304
Upper Lim.	0.001	0.001	0.001	0.0013	0.0012
Lower Lim.	0.00092	0.00091	0.00056	0.001	0.001

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 4/10/2024 3:59 PM View: Pond BCD Appendix IV - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S
9/6/2016				<0.005	
9/8/2016	<0.002	<0.002	<0.002		<0.002
11/17/2016	<0.002				
11/18/2016		<0.002			
11/21/2016			0.0019 (J)	<0.005	<0.002
2/21/2017	<0.002	<0.002			
2/22/2017			<0.002	<0.005	<0.002
6/13/2017	0.0006 (J)	0.0009 (J)			
6/14/2017			0.002 (J)	<0.005	<0.002
9/27/2017	<0.002	0.0007 (J)	0.0016 (J)	<0.005	<0.002
2/14/2018	<0.002	<0.002	<0.002	<0.005	<0.002
6/26/2018	0.00072 (J)				
6/27/2018		<0.002	<0.002		<0.002
6/28/2018				<0.005 (X)	
12/18/2018	0.00091 (J)		<0.002	<0.005	
12/19/2018					<0.002
12/20/2018		<0.002			
8/27/2019	<0.002			<0.005	<0.002
8/28/2019		0.0014 (J)	0.00051 (J)		
10/15/2019	0.00052 (J)				
10/16/2019			0.00065 (J)		
12/4/2019		0.0011 (J)		0.00056 (J)	0.00053 (J)
3/4/2020	<0.002	<0.002	0.00044 (J)		
3/5/2020				<0.005	<0.002
8/19/2020	<0.002	<0.002	<0.002	<0.005	<0.002
9/15/2020	<0.002		<0.002		
9/16/2020		<0.002		<0.005	<0.002
3/2/2021	<0.002				
3/3/2021		<0.002	0.0015 (J)	<0.005	
3/4/2021					<0.002
9/28/2021	<0.002	<0.002	<0.002	<0.005	<0.002
2/2/2022	<0.002			<0.005	<0.002
2/3/2022			<0.002		
2/4/2022		<0.002			
8/23/2022	<0.002				
8/24/2022			<0.002	0.00283 (J)	
8/25/2022		<0.002			<0.002
1/24/2023					<0.002
1/25/2023		<0.002			
1/26/2023	<0.002		<0.002	0.00208 (J)	
8/31/2023				<0.005	<0.002
9/6/2023	<0.002	<0.002	<0.002		
2/10/2024				0.002 (J)	<0.002
2/13/2024	<0.002	<0.002	<0.002		
Mean	0.001738	0.001805	0.00173	0.004373	0.001927
Std. Dev.	0.0005428	0.0004174	0.000535	0.00134	0.0003287
Upper Lim.	0.002	0.002	0.002	0.005	0.002
Lower Lim.	0.00091	0.0014	0.0016	0.00283	0.00053

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 4/10/2024 3:59 PM View: Pond BCD Appendix IV - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-45	BRGWC-47	BRGWC-50	BRGWC-52I	PZ-44
3/6/2018	<0.002 (X)	<0.002 (X)			<0.002 (X)
3/15/2018			0.0014 (J)		
5/1/2018	0.0021 (J)	0.0018 (JD)	<0.002		<0.002
6/27/2018		0.0016 (J)			
6/28/2018	<0.002 (X)		<0.002		
7/31/2018	<0.002				
8/1/2018		0.0028 (J)	0.00074 (J)		
8/10/2018				<0.002	
8/23/2018	0.00075 (J)	<0.002		<0.002	
9/19/2018	<0.002	<0.002		0.0013 (J)	
10/29/2018	<0.002	0.0012 (J)	<0.002	0.0038 (J)	
11/28/2018	0.00096 (J)	0.0019 (J)	<0.002	0.0016 (J)	
12/19/2018		0.00075 (J)	<0.002		
12/20/2018	<0.002			0.0032 (J)	
1/16/2019			<0.002		
1/17/2019				0.0032 (J)	
2/13/2019				<0.002	
8/28/2019	0.00058 (J)	0.0018 (J)			
8/29/2019			<0.002	0.00067 (J)	
10/16/2019		<0.002	<0.002	0.0026 (J)	
12/3/2019	0.0007 (J)				
3/4/2020		0.00049 (J)	0.00046 (J)	0.0047 (J)	
3/5/2020	<0.002				
8/20/2020	<0.002	0.00089 (J)	<0.002	0.0031 (J)	
9/16/2020	<0.002	<0.002			
9/17/2020			<0.002	<0.002	
3/2/2021	<0.002	<0.002			
3/4/2021			<0.002	0.003 (J)	
9/23/2021	<0.002	0.002 (J)			
9/27/2021			<0.002		
9/28/2021				<0.002	<0.002
2/2/2022	<0.002	0.0056		<0.002	0.004 (J)
2/3/2022			<0.002		
8/23/2022		0.00228 (J)			
8/24/2022			0.0025 (J)		
8/25/2022	<0.002			<0.002	<0.002
1/25/2023	0.00225 (J)		0.00236 (J)	<0.002	0.00221 (J)
1/26/2023		0.0024 (J)			
9/6/2023	<0.002	0.0038 (J)		<0.002	
9/8/2023			<0.002		<0.002
2/10/2024		<0.002			<0.002
2/14/2024	<0.002		<0.002	<0.002	
Mean	0.001778	0.002062	0.001873	0.002359	0.002276
Std. Dev.	0.0005191	0.001071	0.0004799	0.0009127	0.0007004
Upper Lim.	0.0021	0.002207	0.00236	0.00251	0.004
Lower Lim.	0.00096	0.001082	0.0014	0.001228	0.002

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 4/10/2024 3:59 PM View: Pond BCD Appendix IV - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	PZ-50D	PZ-51D	PZ-51I	PZ-58I	PZ-60I
1/19/2019			<0.002		
10/18/2019			<0.002		
8/20/2020			<0.002		
9/17/2020			<0.002		
3/3/2021		0.0014 (J)			
3/4/2021			<0.002		
3/5/2021	0.00087 (J)				
9/27/2021			<0.002		
9/28/2021	<0.005	<0.005		<0.002	<0.005
2/2/2022			<0.002		
2/3/2022	0.0012 (J)	0.0015 (J)		<0.002	<0.005
8/24/2022		0.00308 (J)	0.00222 (J)	0.00245 (J)	0.00358 (J)
8/25/2022	0.00235 (J)				
1/26/2023		0.00275 (J)	<0.002	<0.002	0.00204 (J)
1/27/2023	0.00215 (J)				
9/6/2023		0.00408 (J)			
9/8/2023	0.003 (J)		<0.002	<0.002	<0.005
2/14/2024	0.00242 (J)	0.00234 (J)	<0.002	<0.002	0.00248 (J)
Mean	0.00207	0.002521	0.00202	0.002075	0.00385
Std. Dev.	0.0007587	0.0009245	6.633E-05	0.0001837	0.001356
Upper Lim.	0.002971	0.00362	0.002	0.00245	0.005
Lower Lim.	0.001169	0.001423	0.002	0.002	0.00204

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 4/10/2024 3:59 PM View: Pond BCD Appendix IV - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	PZ-61I	PZ-64I
9/27/2021	0.0023 (J)	
2/2/2022	<0.002	
8/24/2022	0.00295 (J)	
10/12/2022		0.00896
1/26/2023	0.00225 (J)	
1/30/2023		0.0103
8/31/2023	<0.002	
9/8/2023		0.00459 (J)
2/14/2024	<0.002	0.00438 (J)
Mean	0.00225	0.007058
Std. Dev.	0.0003688	0.003022
Upper Lim.	0.00295	0.01392
Lower Lim.	0.002	0.0001973

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 4/10/2024 3:59 PM View: Pond BCD Appendix IV - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S
9/6/2016				0.0206	
9/8/2016	0.0378	0.0184	0.0199		0.0593
11/17/2016	0.0448				
11/18/2016		0.0173			
11/21/2016			0.0221 (J)	0.0237 (J)	0.0532 (BR)
2/21/2017	0.0447	0.015			
2/22/2017			0.0179	0.0219	0.0498
6/13/2017	0.0351	0.0143			
6/14/2017			0.0157	0.0197	0.0421
9/27/2017	0.0383	0.017	0.0165	0.0213	0.0411
2/14/2018	0.0327	0.0166	0.0163	0.0236	0.0417
6/26/2018	0.031				
6/27/2018		0.015	0.017		0.038
6/28/2018				0.023	
12/18/2018	0.03		0.017	0.029	
12/19/2018					0.036
12/20/2018		0.015			
8/27/2019	0.027			0.027	0.032
8/28/2019		0.019	0.02		
10/15/2019	0.027				
10/16/2019			0.019		
12/4/2019		0.016		0.021	0.028
3/4/2020	0.026	0.015	0.018		
3/5/2020				0.025	0.026
8/19/2020	0.027	0.016	0.019	0.026	0.025
9/15/2020	0.024		0.017		
9/16/2020		0.016		0.022	0.024
3/2/2021	0.026				
3/3/2021		0.016	0.021	0.028	
3/4/2021					0.024
9/28/2021	0.023	0.013	0.017	0.035	0.02
2/2/2022	0.023			0.031	0.023
2/3/2022			0.016		
2/4/2022		0.015			
8/23/2022	0.0259				
8/24/2022			0.0175	0.0389	
8/25/2022		0.0161			0.0231
1/24/2023					0.0182
1/25/2023		0.0166			
1/26/2023	0.0293		0.018	0.0397	
8/31/2023				0.04	0.0243
9/6/2023	0.0271	0.0151	0.0174		
2/10/2024				0.0349	0.0192
2/13/2024	0.0276	0.0155	0.0179		
Mean	0.03037	0.0159	0.01801	0.02757	0.0324
Std. Dev.	0.006573	0.001375	0.001693	0.006767	0.01211
Upper Lim.	0.03372	0.01668	0.01897	0.03141	0.03928
Lower Lim.	0.0266	0.01511	0.01705	0.02372	0.02552

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 4/10/2024 3:59 PM View: Pond BCD Appendix IV - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-45	BRGWC-47	BRGWC-50	BRGWC-52I	PZ-44
3/6/2018	0.1	0.0519			0.0461
3/15/2018			0.021		
5/1/2018	0.084	0.057 (D)	0.024		0.052
6/27/2018		0.046			
6/28/2018	0.067		0.021		
7/31/2018	0.087 (J+X)				
8/1/2018		0.043 (J+X)	0.02 (J+X)		
8/10/2018				0.038	
8/23/2018	0.084	0.038		0.03 (JX)	
9/19/2018	0.086	0.036		0.03	
10/29/2018	0.098 (J+X)	0.041 (J+X)	0.019 (J+X)	0.025 (J+X)	
11/28/2018	0.11	0.039	0.02	0.017	
12/19/2018		0.04	0.02		
12/20/2018	0.093			0.013	
1/16/2019			0.02		
1/17/2019				0.017	
2/13/2019				0.025	
8/28/2019	0.11	0.035			
8/29/2019			0.018	0.017	
10/16/2019		0.032	0.017	0.015	
12/3/2019	0.099				
3/4/2020		0.038	0.019	0.022	
3/5/2020	0.078				
8/20/2020	0.083	0.035	0.019	0.017	
9/16/2020	0.085	0.028			
9/17/2020			0.02	0.02	
3/2/2021	0.061	0.036			
3/4/2021			0.025	0.019	
9/23/2021	0.064	0.031			
9/27/2021			0.017		
9/28/2021				0.013	0.049
2/2/2022	0.063	0.028		0.013	0.052
2/3/2022			0.016		
8/23/2022		0.0285			
8/24/2022			0.0166		
8/25/2022	0.0574			0.0179	0.056
1/25/2023	0.0695		0.0165	0.0249	0.0498
1/26/2023		0.0311			
9/6/2023	0.0524	0.028		0.0415	
9/8/2023			0.0166		0.0555
2/10/2024		0.0278			0.052
2/14/2024	0.0497		0.015	0.0414	
Mean	0.08005	0.03668	0.01904	0.02284	0.05155
Std. Dev.	0.01814	0.00798	0.002573	0.009104	0.003279
Upper Lim.	0.09006	0.04108	0.0205	0.02716	0.05503
Lower Lim.	0.07004	0.03228	0.01757	0.01748	0.04807

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 4/10/2024 3:59 PM View: Pond BCD Appendix IV - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

	PZ-50D	PZ-51D	PZ-51I	PZ-58I	PZ-60I
1/19/2019			0.017		
10/18/2019			0.014		
8/20/2020			0.013		
9/17/2020			0.015		
3/3/2021		0.08			
3/4/2021			0.016		
3/5/2021	0.043				
9/27/2021			0.014		
9/28/2021	0.034	0.057		0.017	0.022
2/2/2022			0.015		
2/3/2022	0.033	0.057		0.016	0.021
8/24/2022		0.0584	0.0154	0.0181	0.0226
8/25/2022	0.0257				
1/26/2023		0.0481	0.0152	0.0167	0.0218
1/27/2023	0.0315				
9/6/2023		0.0448			
9/8/2023	0.0312		0.0149	0.0173	0.0232
2/14/2024	0.0259	0.0461	0.0133	0.0162	0.0205
Mean	0.03204	0.05591	0.0148	0.01688	0.02185
Std. Dev.	0.005828	0.01204	0.001169	0.0007679	0.0009955
Upper Lim.	0.03897	0.06987	0.01577	0.01794	0.02322
Lower Lim.	0.02512	0.04262	0.01383	0.01583	0.02048

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 4/10/2024 3:59 PM View: Pond BCD Appendix IV - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

	PZ-61I	PZ-63I	PZ-64I
9/27/2021	0.029		
2/2/2022	0.015		
2/4/2022		0.037	
8/24/2022	0.0133		
8/25/2022		0.023	
10/12/2022			0.0543
1/26/2023	0.0125		
1/30/2023		0.022	0.0254
8/31/2023	0.0127		
9/8/2023		0.0221	0.0177
2/14/2024	0.0102	0.0202	0.0133
Mean	0.01545	0.02486	0.02768
Std. Dev.	0.006815	0.006862	0.01844
Upper Lim.	0.029	0.037	0.06954
Lower Lim.	0.0102	0.0202	0

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 4/10/2024 3:59 PM View: Pond BCD Appendix IV - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-27I	BRGWC-29I	BRGWC-45	BRGWC-47	BRGWC-50
9/8/2016	0.0002 (J)	0.0011 (J)			
11/18/2016	0.0002 (J)				
11/21/2016		0.0012 (J)			
2/21/2017	0.0002 (J)				
2/22/2017		0.0014 (J)			
6/13/2017	0.0002 (J)				
6/14/2017		0.0012 (J)			
9/27/2017	0.0001 (J)	0.001 (J)			
2/14/2018	<0.0002	<0.003			
3/6/2018			<0.0002	<0.0002	
3/15/2018					<0.003
5/1/2018			<0.0002	<0.0002 (D)	<0.003
6/27/2018	0.00014 (J)	0.0008 (J)		<0.0002	
6/28/2018			<0.0002		0.003 (J)
7/31/2018			<0.0002		
8/1/2018				<0.0002	0.0025 (J)
8/23/2018			7.9E-05 (J)	5.5E-05 (J)	
9/19/2018			<0.0002	<0.0002	
10/29/2018			<0.0002	<0.0002	0.0042
11/28/2018			<0.0002	5.6E-05 (J)	0.0029 (J)
12/18/2018		0.00071 (J)			
12/19/2018				<0.0002 (X)	0.0043
12/20/2018	<0.0002 (X)		<0.0002		
1/16/2019					0.0038
8/28/2019	0.00012 (J)	0.0008 (J)	<0.0002	<0.0002	
8/29/2019					0.0029 (J)
10/16/2019		0.00072 (J)		<0.0002	0.0027 (J)
10/17/2019	<0.0002		<0.0002		
12/3/2019			<0.0002		
12/4/2019	0.00012 (J)				
3/4/2020	0.00012 (J)	0.00073 (J)		<0.0002	0.0052
3/5/2020			<0.0002		
8/19/2020	9.9E-05 (J)	0.00074 (J)			
8/20/2020			4.6E-05 (J)	4.7E-05 (J)	0.0044
9/15/2020		0.00071 (J)			
9/16/2020	0.00011 (J)		<0.0002	<0.0002	
9/17/2020					0.0065
3/2/2021			<0.0002	<0.0002	
3/3/2021	7.1E-05 (J)	0.00094			
3/4/2021					0.0059
9/23/2021			<0.0002	<0.0002	
9/27/2021					0.006
9/28/2021	<0.0002	0.00079			
2/2/2022			<0.0002	<0.0002	
2/3/2022		0.00083			0.0071
2/4/2022	5.4E-05 (J)				
8/23/2022				<0.0002	
8/24/2022		0.000845			0.00831
8/25/2022	<0.0002		<0.0002		
1/25/2023	<0.0002		<0.0002		0.00962
1/26/2023		0.00109		<0.0002	
9/6/2023	<0.0002	0.00113	<0.0002	<0.0002	

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 4/10/2024 3:59 PM View: Pond BCD Appendix IV - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-27I	BRGWC-29I	BRGWC-45	BRGWC-47	BRGWC-50
9/8/2023					0.00867
2/10/2024				<0.0002	
2/13/2024	<0.0002	0.00114			
2/14/2024			<0.0002		0.00734
Mean	0.0001588	0.0009688	0.0001875	0.000179	0.006904
Std. Dev.	5.165E-05	0.0002398	4.078E-05	5.285E-05	0.001628
Upper Lim.	0.0002	0.001105	0.0002	0.0002	0.008357
Lower Lim.	0.00011	0.0008326	7.9E-05	5.6E-05	0.005451

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 4/10/2024 3:59 PM View: Pond BCD Appendix IV - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

	PZ-50D	PZ-51I	PZ-58I	PZ-60I	PZ-61I
1/19/2019		6.4E-05 (J)			
10/18/2019		<0.0005			
8/20/2020		7.7E-05 (J)			
9/17/2020		9.6E-05 (J)			
3/4/2021		9.7E-05 (J)			
3/5/2021	<0.0002				
9/27/2021		7.1E-05 (J)			0.0017
9/28/2021	5.9E-05 (J)		0.025	0.065	
2/2/2022		7.1E-05 (J)			0.0015
2/3/2022	<0.0002		0.027	0.072	
8/24/2022		<0.0005	0.0335	0.0703	0.00198
8/25/2022	0.000269 (J)				
1/26/2023		<0.0005	0.0377	0.0782	0.00164
1/27/2023	<0.0002				
8/31/2023					0.00145
9/8/2023	<0.0002	<0.0005	0.0328	0.067	
2/14/2024	<0.0002	0.000202 (J)	0.0351	0.0619	0.00157
Mean	0.0001897	0.0002435	0.03185	0.06907	0.00164
Std. Dev.	6.312E-05	0.0002068	0.004876	0.005757	0.0001896
Upper Lim.	0.000269	0.0005	0.03855	0.07698	0.001901
Lower Lim.	5.9E-05	7.1E-05	0.02515	0.06116	0.001379

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 4/10/2024 3:59 PM View: Pond BCD Appendix IV - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

	PZ-63I	PZ-64I
2/4/2022	<0.005	
8/25/2022	<0.005	
10/12/2022		0.0006
1/30/2023	<0.005	0.00116
9/8/2023	<0.005	0.00248
2/14/2024	0.000286 (J)	0.00268
Mean	0.004057	0.00173
Std. Dev.	0.002108	0.001011
Upper Lim.	0.005	0.004025
Lower Lim.	0.000286	0

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 4/10/2024 3:59 PM View: Pond BCD Appendix IV - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-27I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47
9/6/2016		<0.0003			
9/8/2016	7E-05 (J)		<0.0003		
11/18/2016	9E-05 (J)				
11/21/2016		8E-05 (J)	8E-05 (J)		
2/21/2017	<0.0003				
2/22/2017		<0.0003	0.0001 (J)		
6/13/2017	<0.0003				
6/14/2017		<0.0003	<0.0003		
9/27/2017	<0.0003	<0.0003	<0.0003		
2/14/2018	<0.0003	<0.0003	<0.0003		
3/6/2018				<0.0003	<0.0003
5/1/2018				<0.0003	<0.0003 (D)
6/27/2018	<0.0003		0.00011 (J)		0.00014 (J)
6/28/2018		<0.0003		<0.0003	
7/31/2018				<0.0003	
8/1/2018					0.00011 (J)
8/23/2018				<0.0003	0.00018 (J)
9/19/2018				<0.0003	0.00015 (J)
10/29/2018				9.8E-05 (J)	0.00019 (J)
11/28/2018				<0.0003	0.00022 (J)
12/18/2018		<0.0003			
12/19/2018			<0.0003 (X)		<0.0003
12/20/2018	<0.0003			<0.0003 (X)	
8/27/2019		<0.0003	<0.0003		
8/28/2019	<0.0003			<0.0003	0.00017 (J)
10/16/2019					0.00018 (J)
10/17/2019	<0.0003	<0.0003	<0.0003	<0.0003	
12/3/2019				0.00011 (J)	
12/4/2019	<0.0003	<0.0003	<0.0003		
3/4/2020	<0.0003				0.00024 (J)
3/5/2020		<0.0003	<0.0003	<0.0003	
8/19/2020	<0.0003	<0.0003	<0.0003		
8/20/2020				0.00014 (J)	<0.0003
9/16/2020	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
3/2/2021				0.0002 (J)	<0.0003
3/3/2021	<0.0003	<0.0003			
3/4/2021			<0.0003		
9/23/2021				<0.0003	<0.0003
9/28/2021	<0.0003	<0.0003	<0.0003		
2/2/2022		0.00014 (J)	<0.0003	<0.0003	0.00015 (J)
2/4/2022	<0.0003				
8/23/2022					<0.0003
8/24/2022		<0.0003			
8/25/2022	<0.0003		<0.0003	<0.0003	
1/24/2023			<0.0003		
1/25/2023	<0.0003			<0.0003	
1/26/2023		<0.0003			<0.0003
8/31/2023		<0.0003	<0.0003		
9/6/2023	<0.0003			<0.0003	<0.0003
2/10/2024		<0.0003	<0.0003		<0.0003
2/13/2024	<0.0003				
2/14/2024				<0.0003	

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 4/10/2024 3:59 PM View: Pond BCD Appendix IV - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-27I	BRGWC-30I	BRGWC-32S	BRGWC-45	BRGWC-47
Mean	0.000279	0.0002819	0.000271	0.0002704	0.0002395
Std. Dev.	6.625E-05	5.793E-05	7.307E-05	6.661E-05	6.989E-05
Upper Lim.	0.0003	0.0003	0.0003	0.0003	0.0003
Lower Lim.	9E-05	0.00014	0.00011	0.0002	0.00017

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 4/10/2024 3:59 PM View: Pond BCD Appendix IV - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-50	PZ-51I	PZ-58I	PZ-60I	PZ-61I
3/15/2018	0.038				
5/1/2018	0.011				
6/28/2018	0.087				
8/1/2018	0.042				
8/3/2018		0.0015			
10/29/2018	0.083				
11/28/2018	0.031				
12/19/2018	0.042				
1/16/2019	0.028				
1/19/2019		0.0016			
8/29/2019	0.0071				
10/16/2019	0.014				
10/18/2019		0.00083 (J)			
3/4/2020	0.013				
8/20/2020	0.0079	0.0019 (J)			
9/17/2020	0.021	0.033			
10/27/2020		0.0051			
3/4/2021	0.019	0.017			
9/27/2021	0.0095	0.0031			0.00081
9/28/2021			0.0042	0.016	
2/2/2022		0.0043			0.00014 (J)
2/3/2022	0.0085		0.0038	0.016	
8/24/2022	0.00818	0.00478	0.0046	0.017	0.000859 (J)
1/25/2023	0.00726				
1/26/2023		0.00101	0.00435	0.0152	0.000517 (J)
8/31/2023					0.000496 (J)
9/8/2023	0.00744	0.000679 (J)	0.00453	0.0149	
2/14/2024	0.00688	0.00133	0.00468	0.014	0.00037 (J)
Mean	0.02459	0.005856	0.00436	0.01552	0.000532
Std. Dev.	0.02392	0.009226	0.000325	0.001044	0.0002704
Upper Lim.	0.02754	0.006611	0.004806	0.01695	0.0009035
Lower Lim.	0.01063	0.00118	0.003914	0.01408	0.0001605

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 4/10/2024 3:59 PM View: Pond BCD Appendix IV - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

	PZ-64I
10/12/2022	<0.001
1/30/2023	0.00126
9/8/2023	<0.001
2/14/2024	0.0011
Mean	0.00109
Std. Dev.	0.0001227
Upper Lim.	0.001331
Lower Lim.	0.0008487

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 4/10/2024 3:59 PM View: Pond BCD Appendix IV - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S
9/6/2016				<0.003	
9/8/2016	<0.003	0.001 (J)	<0.003		<0.003
11/17/2016	<0.003				
11/18/2016		<0.003			
11/21/2016			<0.003	<0.003	<0.003
2/21/2017	<0.003	<0.003			
2/22/2017			<0.003	<0.003	0.0012 (J)
6/13/2017	<0.003	<0.003			
6/14/2017			<0.003	<0.003	0.0009 (J)
9/27/2017	<0.003	<0.003	<0.003	<0.003	0.0011 (J)
2/14/2018	<0.003	<0.003	<0.003	<0.003	<0.003
6/26/2018	<0.003				
6/27/2018		<0.003	<0.003		<0.003
6/28/2018				<0.003	
12/18/2018	<0.003		<0.003	<0.003	
12/19/2018					<0.003
12/20/2018		0.003 (J)			
8/27/2019	0.0016 (J)			0.0051 (J)	0.0019 (J)
8/28/2019		<0.003	<0.003		
10/15/2019	0.00098 (J)				
10/16/2019			<0.003		
12/4/2019		<0.003		<0.003	0.0014 (J)
3/4/2020	<0.003	<0.003	0.02		
3/5/2020				<0.003	0.0014 (J)
8/19/2020	<0.003	<0.003	<0.003	<0.003	0.0021 (J)
9/15/2020	<0.003		<0.003		
9/16/2020		<0.003		0.014	0.0025 (J)
3/2/2021	<0.003				
3/3/2021		<0.003	<0.003	<0.003	
3/4/2021					0.002 (J)
9/28/2021	<0.003	<0.003	<0.003	<0.003	0.0021 (J)
2/2/2022	<0.003			<0.003	0.0021 (J)
2/3/2022			<0.003		
2/4/2022		<0.003			
8/23/2022	<0.003				
8/24/2022			<0.003	<0.003	
8/25/2022		<0.003			<0.003
1/24/2023					<0.003
1/25/2023		<0.003			
1/26/2023	<0.003		<0.003	<0.003	
8/31/2023				<0.003	<0.003
9/6/2023	<0.003	<0.003	<0.003		
2/10/2024				<0.003	<0.003
2/13/2024	<0.003	<0.003	<0.003		
Mean	0.002829	0.0029	0.00385	0.003655	0.002285
Std. Dev.	0.0005359	0.0004472	0.003801	0.00248	0.0007625
Upper Lim.	0.003	0.003	0.02	0.0051	0.003
Lower Lim.	0.0016	0.003	0.003	0.003	0.0014

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 4/10/2024 3:59 PM View: Pond BCD Appendix IV - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-45	BRGWC-47	BRGWC-50	BRGWC-52I	PZ-51I
3/6/2018	<0.003	<0.003			
3/15/2018			<0.003		
5/1/2018	<0.003	<0.003 (D)	<0.003		
6/27/2018		<0.003			
6/28/2018	<0.003		0.0023 (J)		
7/31/2018	<0.003				
8/1/2018		<0.003	0.0046 (J)		
8/10/2018				0.0017 (J)	
8/23/2018	<0.003	<0.003		<0.003	
9/19/2018	<0.003	<0.003		<0.003	
10/29/2018	<0.003	<0.003	<0.003	<0.003	
11/28/2018	<0.003	<0.003	<0.003	<0.003	
12/19/2018		0.0018 (J)	<0.003		
12/20/2018	<0.003			<0.003	
1/16/2019			<0.003		
1/17/2019				<0.003	
1/19/2019					<0.003
2/13/2019				<0.003	
8/28/2019	<0.003	0.00092 (J)			
8/29/2019			<0.003	<0.003	
10/16/2019		<0.003	0.0005 (J)	<0.003	
10/18/2019					<0.003
12/3/2019	<0.003				
3/4/2020		0.00078 (J)	0.00071 (J)	<0.003	
3/5/2020	0.00053 (J)				
8/20/2020	0.001 (J)	0.00064 (J)	0.00065 (J)	<0.003	<0.003
9/16/2020	0.0014 (J)	<0.003			
9/17/2020			0.00098 (J)	<0.003	0.00098 (J)
3/2/2021	<0.003	<0.003			
3/4/2021			0.001 (J)	<0.003	0.0008 (J)
9/23/2021	<0.003	<0.003			
9/27/2021			<0.003		<0.003
9/28/2021				<0.003	
2/2/2022	<0.003	<0.003		<0.003	<0.003
2/3/2022			<0.003		
8/23/2022		<0.003			
8/24/2022			<0.003		<0.003
8/25/2022	<0.003			<0.003	
1/25/2023	<0.003		<0.003	<0.003	
1/26/2023		<0.003			<0.003
9/6/2023	<0.003	<0.003		<0.003	
9/8/2023			<0.003		<0.003
2/10/2024		<0.003			
2/14/2024	<0.003		<0.003	<0.003	<0.003
Mean	0.002711	0.002626	0.002487	0.002935	0.002616
Std. Dev.	0.0007385	0.0008162	0.001097	0.0002907	0.0008545
Upper Lim.	0.003	0.003	0.003	0.003	0.003
Lower Lim.	0.0014	0.0018	0.001	0.0017	0.00098

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 4/10/2024 3:59 PM View: Pond BCD Appendix IV - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

	PZ-61I
9/27/2021	0.0077
2/2/2022	<0.003
8/24/2022	<0.003
1/26/2023	<0.003
8/31/2023	<0.003
2/14/2024	<0.003
Mean	0.003783
Std. Dev.	0.001919
Upper Lim.	0.0077
Lower Lim.	0.003

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 4/10/2024 3:59 PM View: Pond BCD Appendix IV - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S
9/6/2016				0.0006 (J)	
9/8/2016	0.0073 (J)	0.0149	0.0122		0.0025 (J)
11/17/2016	0.0086 (J)				
11/18/2016		0.0131			
11/21/2016			0.0122	<0.04	0.001 (J)
2/21/2017	0.0079 (J)	0.0099 (J)			
2/22/2017			0.0136	0.0016 (J)	<0.0003
6/13/2017	0.0083 (J)	0.0094 (J)			
6/14/2017			0.0113	0.0015 (J)	<0.0003
9/27/2017	0.0087 (J)	0.0095 (J)	0.0094 (J)	0.0007 (J)	<0.0003
2/14/2018	<0.01	0.0112	<0.01	<0.04	<0.0003
6/26/2018	0.006 (J)				
6/27/2018		0.0093 (J)	0.0069 (J)		<0.0003
6/28/2018				0.00078 (J)	
12/18/2018	0.0055 (J)		0.0067 (J)	0.0011 (J)	
12/19/2018					<0.0003
12/20/2018		0.0081 (J)			
8/27/2019	0.0042 (J)			0.0014 (J)	<0.0003
8/28/2019		0.01	0.0061		
10/15/2019	0.0043 (J)				
10/16/2019			0.0058		
10/17/2019		0.011 (J)		<0.04	<0.0003
12/4/2019		0.0086		0.0012 (J)	<0.0003
3/4/2020	0.0039 (J)	0.008	0.007		
3/5/2020				0.0011 (J)	<0.0003
8/19/2020	0.0039 (J)	0.0078	0.0065	0.0008 (J)	<0.0003
9/15/2020	0.0035 (J)		0.0064		
9/16/2020		0.008		0.0008 (J)	<0.0003
3/2/2021	0.003 (J)				
3/3/2021		0.0062	0.0095	0.0015 (J)	
3/4/2021					<0.0003
9/28/2021	0.0029 (J)	0.0047 (J)	0.0069	0.001 (J)	<0.0003
2/2/2022	0.0027 (J)			0.0012 (J)	<0.0003
2/3/2022			0.0077		
2/4/2022		0.0076			
8/23/2022	0.00342				
8/24/2022			0.0066	0.00163	
8/25/2022		0.0079			<0.0003
1/24/2023					<0.0003
1/25/2023		0.00711			
1/26/2023	0.0032		0.00823	0.00158	
8/31/2023				0.00183	<0.0003
9/6/2023	0.00343	0.00601	0.00724		
2/10/2024				0.00179	<0.0003
2/13/2024	0.00254	0.00392	0.00874		
Mean	0.004914	0.008678	0.0082	0.00391	0.0004381
Std. Dev.	0.002129	0.002577	0.002423	0.006741	0.0004965
Upper Lim.	0.00592	0.0101	0.009576	0.00179	0.001
Lower Lim.	0.003641	0.007256	0.006825	0.0008	0.0003

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 4/10/2024 3:59 PM View: Pond BCD Appendix IV - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-45	BRGWC-47	BRGWC-50	BRGWC-52I	PZ-44
3/6/2018	0.0162	<0.0003			<0.001
3/15/2018			1.3		
5/1/2018	0.015	0.0125 (D)	1.4		<0.001
6/27/2018		0.0076 (J)			
6/28/2018	0.01		1.3		
7/31/2018	0.0098 (J)				
8/1/2018		0.004 (J)	1.4		
8/10/2018				0.0043 (J)	
8/23/2018	0.0093 (J)	0.0016 (J)		0.0026 (J)	
9/19/2018	0.0084 (J)	0.0018 (J)		0.0028 (J)	
10/29/2018	0.0064 (J)	0.0014 (J)	1.4	0.0015 (J)	
11/28/2018	0.0071 (J)	0.0016 (J)	1.4	0.0012 (J)	
12/19/2018		0.0014 (J)	1.5		
12/20/2018	0.069			<0.001	
1/16/2019			1.4		
1/17/2019				<0.001	
2/13/2019				<0.001	
8/28/2019	0.011	0.00037 (J)			
8/29/2019			1.3	0.00063 (J)	
10/16/2019		0.00032 (J)	1.4	<0.001	
10/17/2019	0.0098 (J)				
12/3/2019	0.0076				
3/4/2020		0.0011 (J)	1.5	<0.001	
3/5/2020	0.0091				
8/20/2020	0.022	0.00043 (J)	1.4	<0.001	
9/16/2020	0.0049 (J)	0.00053 (J)			
9/17/2020			1.4	0.00046 (J)	
3/2/2021	0.0057	0.0005 (J)			
3/4/2021			1.4	<0.001	
9/23/2021	0.0049 (J)	<0.0003			
9/27/2021			1.3		
9/28/2021				<0.001	<0.001
2/2/2022	0.0054	<0.0003		<0.001	<0.001
2/3/2022			1.5		
8/23/2022		<0.0003			
8/24/2022			1.42		
8/25/2022	0.00357			<0.001	<0.001
1/25/2023	0.00258		1.35	<0.001	<0.001
1/26/2023		0.000376 (J)			
9/6/2023	0.00221	<0.0003		0.000317 (J)	
9/8/2023			1.38		<0.001
2/10/2024		<0.0003			0.000408 (J)
2/14/2024	0.00181			0.00042 (J)	
2/16/2024			1.39		
Mean	0.01099	0.001777	1.392	0.001261	0.000926
Std. Dev.	0.01383	0.00299	0.06161	0.0009416	0.0002093
Upper Lim.	0.01171	0.0016	1.42	0.0012	0.001
Lower Lim.	0.00497	0.0003	1.35	0.00063	0.000408

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 4/10/2024 3:59 PM View: Pond BCD Appendix IV - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

	PZ-50D	PZ-51D	PZ-51I	PZ-58I	PZ-60I
8/3/2018			0.041		
1/19/2019			0.018		
10/18/2019			0.017		
8/20/2020			0.02		
9/17/2020			0.022		
10/27/2020	0.0037 (J)	0.00041 (J)	0.02		
3/3/2021		0.0004 (J)			
3/4/2021			0.019		
3/5/2021	0.0038 (J)				
9/27/2021			0.02		
9/28/2021	0.2	<0.001		0.39	3.5
2/2/2022			0.023		
2/3/2022	0.1	<0.001		0.43	3.4
8/24/2022		0.000306 (J)	0.0239	0.503	3.57
8/25/2022	0.506				
1/26/2023		<0.001	0.0231	0.518	3.64
1/27/2023	0.0728				
9/6/2023		0.000427 (J)			
9/8/2023	0.00991		0.0259	0.556	3.79
2/14/2024	0.131	0.00111	0.0221	0.57	
2/16/2024					3.78
Mean	0.1284	0.0007066	0.02269	0.4945	3.613
Std. Dev.	0.1676	0.0003467	0.00604	0.07098	0.1549
Upper Lim.	0.2787	0.00111	0.0259	0.592	3.826
Lower Lim.	0.002943	0.000306	0.018	0.397	3.401

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 4/10/2024 3:59 PM View: Pond BCD Appendix IV - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

	PZ-61I	PZ-63I	PZ-64I
9/27/2021	0.45		
2/2/2022	0.51		
2/4/2022		0.019	
8/24/2022	0.562		
8/25/2022		0.0232	
10/12/2022			9.05
1/26/2023	0.604		
1/30/2023		0.028	11
8/31/2023	0.757		
9/8/2023		0.0309	10.6
2/14/2024	0.694	0.0299	
2/16/2024			9.86
Mean	0.5962	0.0262	10.13
Std. Dev.	0.1144	0.004996	0.8597
Upper Lim.	0.7533	0.03457	12.08
Lower Lim.	0.439	0.01783	8.176

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/10/2024 3:59 PM View: Pond BCD Appendix IV - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S
9/6/2016				1.01 (U)	
9/8/2016	0.862 (U)	1.74	1.13		0.706 (U)
11/17/2016	1.2 (U)				
11/18/2016		0.571 (U)			
11/21/2016			1.59	0.201 (U)	0.0569 (U)
2/21/2017	1.31	1.28 (U)			
2/22/2017			1.64	0.57 (U)	1.07 (U)
6/13/2017	0.738 (U)	0.521 (U)			
6/14/2017			1.32	0.726 (U)	0.459 (U)
9/27/2017	0.583 (U)	0.595 (U)	1.7	0.884 (U)	0.807 (U)
2/14/2018	1.41 (J+X)	1.18 (U)	1.89 (J+X)	1.14 (U)	1.67 (J+X)
6/26/2018	0.968 (U)				
6/27/2018		1.3 (U)	1.66 (J+X)		1.34 (UX)
6/28/2018				1.4 (UX)	
12/18/2018	1.13 (U)		0.759 (U)	0.661 (U)	
12/19/2018					1.21 (U)
12/20/2018		0.527 (U)			
8/27/2019	0.91 (U)			1.35	0.86 (U)
8/28/2019		0.643 (U)	1.76		
10/15/2019	1.06 (U)				
10/16/2019			1.69 (U)		
10/17/2019		1.07 (U)		1.25 (U)	1.2 (U)
3/4/2020	1.34	1.18	1.23		
3/5/2020				1.35	0.483 (U)
8/19/2020	0.467 (U)	0.684 (U)	0.876 (U)	1 (U)	0.482 (U)
9/15/2020	0.205 (U)		1.23 (U)		
9/16/2020		0.175 (U)		0.43 (U)	0.195 (U)
3/2/2021	0.161 (U)				
3/3/2021		0.829 (U)	1.31 (U)	0.415 (U)	
3/4/2021					0.32 (U)
9/28/2021	4.44	3.58	1.49	0.749 (U)	0.947 (U)
2/2/2022	0.64 (U)			1.21 (U)	0.0265 (U)
2/3/2022			0.798 (U)		
2/4/2022		0.335 (U)			
8/23/2022	1.9				
8/24/2022			1.97	3.26	
8/25/2022		1.79			1.32
1/24/2023					2.25
1/25/2023		1.53 (U)			
1/26/2023	3.24		2.27 (U)	2.73 (U)	
9/22/2023				2.71	2.33
9/26/2023	1.21 (U)	2.23	3.02		
2/27/2024				4.11	0.572 (U)
2/28/2024	3.78	1.49 (U)	3.01		
Mean	1.378	1.163	1.617	1.358	0.9152
Std. Dev.	1.148	0.7865	0.6182	1.037	0.6509
Upper Lim.	1.803	1.609	1.968	1.761	1.285
Lower Lim.	0.7064	0.7159	1.266	0.7452	0.5456

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/10/2024 3:59 PM View: Pond BCD Appendix IV - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-45	BRGWC-47	BRGWC-50	BRGWC-52I	PZ-44
3/6/2018	1.25 (U)	1.75 (J+X)			0.577 (U)
3/15/2018			1.31		
5/1/2018	0.423 (U)	2.02 (J+XD)	1.69 (J+X)		0.27 (U)
6/27/2018		0.878 (U)			
6/28/2018	0.283 (U)		1.04 (U)		
7/31/2018	0.243 (U)				
8/1/2018		0.638 (U)	1.67		
8/10/2018				1.91	
8/23/2018	1.1 (U)	1.14 (U)		1.86 (J+X)	
9/19/2018	0.369 (U)	1.45 (UX)		1.64 (UX)	
10/29/2018	0.401 (U)	1.09 (U)	0.992 (U)	1.36 (U)	
11/28/2018	0.901 (U)	1.67 (UX)	1.76 (UX)	1.07 (U)	
12/19/2018		1.3	2.15 (J+X)		
12/20/2018	0.657 (U)			0.892 (U)	
1/16/2019			1.39		
1/17/2019				1.1 (U)	
2/13/2019				1.68	
8/28/2019	0.528 (U)	0.804 (U)			
8/29/2019			1.33	1.44	
10/16/2019		1.28 (U)	2.51	2.13	
10/17/2019	0.977 (U)				
3/4/2020		0.862 (U)	1.73	2.3	
3/5/2020	0.921 (U)				
8/20/2020	0.501 (U)	1.64	2.78	2.97	
9/16/2020	0.254 (U)	0.51 (U)			
9/17/2020			0.717 (U)	2.04	
3/2/2021	0.107 (U)	0.571 (U)			
3/4/2021			1.22	2.04	
9/23/2021	0.619 (U)	0.527 (U)			
9/27/2021			2.07		
9/28/2021				3.28	0.526 (U)
2/2/2022	0.219 (U)	0.145 (U)		2.33	0.244 (U)
2/3/2022			1.15		
8/23/2022		3.74			
8/24/2022			1.87		
8/25/2022	1.65			4.97	1.6
1/25/2023	1.29 (U)		5.71	7.94	2.49 (U)
1/26/2023		3.28			
9/22/2023			1.55		0.477 (U)
9/26/2023	0.607 (U)	2.39		6.36	
2/27/2024		2.63			2.87
2/28/2024			0.607 (U)		
2/29/2024	1.22 (U)			4.51	
Mean	0.6914	1.444	1.762	2.691	1.132
Std. Dev.	0.4286	0.9382	1.082	1.871	1.05
Upper Lim.	0.9279	1.961	2.19	3.428	2.14
Lower Lim.	0.455	0.926	1.186	1.635	0.2393

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/10/2024 3:59 PM View: Pond BCD Appendix IV - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

	PZ-50D	PZ-51D	PZ-51I	PZ-60I	PZ-61I
1/19/2019			1.86		
10/18/2019			11.7 (U)		
8/20/2020			0.937 (U)		
9/17/2020			1.76		
3/3/2021		2.54			
3/4/2021			0.966 (U)		
3/5/2021	2.11				
9/27/2021			0.771 (U)		1.14 (U)
9/28/2021	1.05	1.89		2.79	
2/2/2022			0.992 (U)		1.16
2/3/2022	1	2.23		2.46	
8/24/2022		3.33	0.625	3.5	2.91
8/25/2022	2.26				
1/26/2023		3.7	1.53 (U)	5.31	3.2
1/27/2023	2.66 (U)				
9/22/2023	2.12		5.22	4.48	0.868 (U)
9/26/2023		1.27			
2/28/2024	3.93				
2/29/2024		5.03	2.24	4.39	2.25
Mean	2.161	2.856	2.6	3.822	1.921
Std. Dev.	0.9979	1.265	3.278	1.095	1.002
Upper Lim.	3.347	4.358	3.48	5.326	3.298
Lower Lim.	0.9761	1.353	0.8089	2.318	0.5449

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/10/2024 3:59 PM View: Pond BCD Appendix IV - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

	PZ-63I
2/4/2022	0.768
8/25/2022	1.52
1/30/2023	6.03
9/22/2023	2.31
2/29/2024	1.52 (U)
Mean	2.43
Std. Dev.	2.085
Upper Lim.	6.093
Lower Lim.	0.2103

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 4/10/2024 3:59 PM View: Pond BCD Appendix IV - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S
9/6/2016				0.43	
9/8/2016	0.14 (J)	0.31	0.2 (J)		0.15 (J)
11/17/2016	0.27 (J)				
11/18/2016		0.19 (J)			
11/21/2016			0.37	0.24 (J)	0.04 (J)
2/21/2017	0.6	0.35			
2/22/2017			0.37	0.2 (J)	0.08 (J)
6/13/2017	0.19 (J)	0.19 (J)			
6/14/2017			0.38	0.15 (J)	0.09 (J)
9/27/2017	0.5	0.4	0.4	0.41	<0.1
2/14/2018	<0.3	<0.3	<0.3	<0.3	<0.1
6/26/2018	0.15 (J)				
6/27/2018		0.26 (J)	0.085 (J)		<0.1
6/28/2018				0.93 (J+X)	
12/18/2018	0.29 (J)		0.26 (J)	0.54	
12/19/2018					0.23 (J)
12/20/2018		0.26 (J)			
3/19/2019		0.2 (J)			
3/20/2019	0.17 (JD)		0.091 (J)	0.31	<0.1
8/27/2019	0.15 (J)			0.12 (J)	<0.1
8/28/2019		0.074 (J)	0.055 (J)		
10/15/2019	0.16 (J)				
10/16/2019			0.11 (J)		
12/4/2019		0.18 (J)		0.26 (J)	0.11 (J)
3/4/2020	0.07 (J)	<0.3	<0.3		
3/5/2020				0.051 (J)	<0.1
8/19/2020	0.17	0.19	0.12	0.14	<0.1
9/15/2020	0.15		0.057 (J)		
9/16/2020		0.15		0.13	<0.1
3/2/2021	0.15				
3/3/2021		0.24	0.13	0.13	
3/4/2021					<0.1
9/28/2021	0.15	0.16	0.081 (J)	0.11	<0.1
2/2/2022	0.15			0.1	<0.1
2/3/2022			0.11		
2/4/2022		0.14			
8/23/2022	0.186				
8/24/2022			0.103	0.318	
8/25/2022		0.234			0.138
1/24/2023					0.082 (J)
1/25/2023		0.152			
1/26/2023	0.202		0.0935 (J)	0.167	
8/23/2023				0.116	0.0477 (J)
8/25/2023	0.25	0.302	0.0849 (J)		
1/31/2024					0.207
2/1/2024	0.221	0.222	0.0968 (J)	0.169	
Mean	0.2128	0.2145	0.1665	0.2462	0.1083
Std. Dev.	0.1233	0.0783	0.1158	0.2008	0.04365
Upper Lim.	0.25	0.2577	0.1926	0.3155	0.11
Lower Lim.	0.15	0.1713	0.09711	0.1391	0.09

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 4/10/2024 3:59 PM View: Pond BCD Appendix IV - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-45	BRGWC-47	BRGWC-50	BRGWC-52I	PZ-44
3/6/2018	0.94	1.1			<0.3
3/15/2018			0.84 (JX)		
5/1/2018	<0.1	0.595 (D)	0.91		<0.3
6/27/2018		0.27 (J)			
6/28/2018	0.69 (J+X)		1.1 (J+X)		
7/31/2018	<0.1				
8/1/2018		0.48	2		
8/10/2018				1.6 (O)	
8/23/2018	<0.1	0.34		0.32	
9/19/2018	<0.1	0.23 (J)		0.22 (J)	
10/29/2018	<0.1	<0.1	0.24 (J)	0.14 (J)	
11/28/2018	<0.1	0.063 (J)	0.41	0.24 (J)	
12/19/2018		0.28 (J)	0.54		
12/20/2018	0.12 (J)			0.3	
1/16/2019			1.1		
1/17/2019				0.23 (J)	
2/13/2019				<0.3	
3/19/2019		<0.1			
3/20/2019	0.066 (J)		0.21 (J)	0.135 (JD)	
8/28/2019	<0.1	<0.1			
8/29/2019			0.41	0.087 (J)	
10/16/2019		0.076 (J)	0.39	0.22 (J)	
12/3/2019	0.19 (J)				
3/4/2020		<0.1	0.14 (J)	0.1 (J)	
3/5/2020	<0.1				
8/20/2020	<0.1	<0.1	0.39	0.23	
9/16/2020	0.052 (J)	<0.1			
9/17/2020			0.46	0.074 (J)	
3/2/2021	0.067 (J)	<0.1			
3/4/2021			0.6	0.28	
9/23/2021	0.06 (J)	<0.1			
9/27/2021			0.43		
9/28/2021				0.12	0.08 (J)
2/2/2022	<0.1	<0.1		0.098 (J)	0.065 (J)
2/3/2022			0.42		
8/23/2022		<0.1			
8/24/2022			0.497		
8/25/2022	0.166			0.157	0.184
1/25/2023	0.163		0.432	0.169	0.13
1/26/2023		0.117			
8/24/2023			0.499		0.195
8/25/2023	0.185	0.243		0.188 (J)	
2/1/2024		0.11			0.242
2/2/2024	0.126		0.416	0.215	
Mean	0.1739	0.2229	0.5921	0.1837	0.187
Std. Dev.	0.2143	0.2406	0.4143	0.07204	0.0912
Upper Lim.	0.163	0.27	0.7458	0.2246	0.2166
Lower Lim.	0.067	0.1	0.3683	0.1427	0.08206

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 4/10/2024 3:59 PM View: Pond BCD Appendix IV - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	PZ-50D	PZ-51D	PZ-51I	PZ-58I	PZ-60I
1/19/2019			<0.1		
10/18/2019			<0.1		
8/20/2020			<0.1		
9/17/2020			<0.1		
10/27/2020	0.28	0.21	<0.1		
3/3/2021		0.28			
3/4/2021			0.061 (J)		
3/5/2021	0.16				
9/27/2021			<0.1		
9/28/2021	0.11	0.26		0.97	1.6
2/2/2022			<0.1		
2/3/2022	0.15	0.27		1.8	2.3
8/24/2022		0.318	0.148	1.09	1.32
8/25/2022	0.106				
1/26/2023		0.354	0.12	1.19	1.66
1/27/2023	0.151 (J)				
8/24/2023	0.193		0.0744 (J)	1.1	1.32
8/25/2023		0.395			
2/2/2024	0.202	0.299	0.0661 (J)	1.16	1.26
Mean	0.169	0.2983	0.09746	1.218	1.577
Std. Dev.	0.05632	0.05762	0.02326	0.2949	0.3906
Upper Lim.	0.2287	0.3593	0.12	1.8	2.107
Lower Lim.	0.1093	0.2372	0.0661	0.97	1.092

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 4/10/2024 3:59 PM View: Pond BCD Appendix IV - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	PZ-61I	PZ-63I	PZ-64I
9/27/2021	0.067 (J)		
2/2/2022	<0.1		
2/4/2022		0.14	
8/24/2022	0.103		
8/25/2022		0.235	
10/12/2022			0.0781 (J)
1/26/2023	0.184		
1/30/2023		0.23	0.0767 (J)
8/23/2023	0.188		
8/24/2023		0.252	0.135
2/2/2024	0.0694 (J)	0.289	0.133
Mean	0.1186	0.2292	0.1057
Std. Dev.	0.05434	0.05497	0.03269
Upper Lim.	0.187	0.3213	0.135
Lower Lim.	0.04981	0.1371	0.0767

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 4/10/2024 3:59 PM View: Pond BCD Appendix IV - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-45
9/6/2016				<0.0005	
9/8/2016	<0.0005	<0.0005	0.0004 (J)		
11/17/2016	<0.0005				
11/18/2016		<0.0005			
11/21/2016			0.0006 (J)	<0.0005	
2/21/2017	<0.0005	<0.0005			
2/22/2017			0.0005 (J)	<0.0005	
6/13/2017	<0.0005	<0.0005			
6/14/2017			0.0004 (J)	<0.0005	
9/27/2017	<0.0005	<0.0005	0.0006 (J)	<0.0005	
2/14/2018	<0.0005	<0.0005	<0.005 (o)	<0.0005	
3/6/2018					<0.0005
5/1/2018					<0.0005
6/26/2018	<0.0005				
6/27/2018		<0.0005	0.00032 (J)		
6/28/2018				<0.0005	<0.0005
7/31/2018					<0.0005
8/23/2018					<0.0005
9/19/2018					<0.0005
10/29/2018					<0.0005
11/28/2018					<0.0005
12/18/2018	<0.0005		0.00038 (J)	<0.0005	
12/20/2018		<0.0005			<0.0005
8/27/2019	0.00011 (J)			<0.0005	
8/28/2019		<0.0005	0.00027 (J)		<0.0005
10/15/2019	<0.0005				
10/16/2019			0.00027 (J)		
12/3/2019					<0.0005
12/4/2019		6.3E-05 (J)		<0.0005	
3/4/2020	<0.0005	<0.0005	0.0003 (J)		
3/5/2020				<0.0005	0.00026 (J)
8/19/2020	<0.0005	<0.0005	0.00025 (J)	<0.0005	
8/20/2020					0.00021 (J)
9/15/2020	<0.0005		0.00029 (J)		
9/16/2020		<0.0005		0.00011 (J)	5.3E-05 (J)
3/2/2021	<0.0005				<0.0005
3/3/2021		<0.0005	0.00033 (J)	<0.0005	
9/23/2021					<0.0005
9/28/2021	<0.0005	<0.0005	<0.0005	<0.0005	
2/2/2022	<0.0005			<0.0005	<0.0005
2/3/2022			<0.0005		
2/4/2022		<0.0005			
8/23/2022	<0.0005				
8/24/2022			<0.0005	<0.0005	
8/25/2022		<0.0005			<0.0005
1/25/2023		<0.0005			0.000595 (J)
1/26/2023	<0.0005		<0.0005	<0.0005	
8/31/2023				<0.0005	
9/6/2023	<0.0005	<0.0005	<0.0005		<0.0005
2/10/2024				<0.0005	
2/13/2024	<0.0005	<0.0005	<0.0005		
2/14/2024					<0.0005

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 4/10/2024 3:59 PM View: Pond BCD Appendix IV - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-45
Mean	0.0004805	0.0004782	0.0004163	0.0004805	0.000458
Std. Dev.	8.721E-05	9.772E-05	0.0001143	8.721E-05	0.0001252
Upper Lim.	0.0005	0.0005	0.0005	0.0005	0.000595
Lower Lim.	0.00011	6.3E-05	0.00029	0.00011	0.00026

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 4/10/2024 3:59 PM View: Pond BCD Appendix IV - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-47	BRGWC-50	BRGWC-52I	PZ-50D	PZ-51D
3/6/2018	<0.0005				
3/15/2018		<0.0005			
5/1/2018	<0.0005 (D)	<0.0005			
6/27/2018	<0.0005				
6/28/2018		0.00054 (J)			
8/1/2018	<0.0005	<0.0005			
8/10/2018			<0.0005		
8/23/2018	<0.0005		<0.0005		
9/19/2018	<0.0005		<0.0005		
10/29/2018	<0.0005	0.0003 (J)	<0.0005		
11/28/2018	<0.0005	<0.0005	<0.0005		
12/19/2018	<0.0005	<0.0005			
12/20/2018			<0.0005		
1/16/2019		<0.0005			
1/17/2019			<0.0005		
2/13/2019			<0.0005		
8/28/2019	<0.0005				
8/29/2019		4.9E-05 (J)	<0.0005		
10/16/2019	<0.0005	8.5E-05 (J)	<0.0005		
3/4/2020	0.00012 (J)	0.0001 (J)	<0.0005		
8/20/2020	4.8E-05 (J)	6.7E-05 (J)	<0.0005		
9/16/2020	6.6E-05 (J)				
9/17/2020		0.00015 (J)	<0.0005		
3/2/2021	<0.0005				
3/3/2021					0.00013 (J)
3/4/2021		0.00016 (J)	4.2E-05 (J)		
3/5/2021				5.6E-05 (J)	
9/23/2021	<0.0005				
9/27/2021		<0.0005			
9/28/2021			<0.0005	<0.0005	<0.0005
2/2/2022	<0.0005		<0.0005		
2/3/2022		<0.0005		<0.0005	<0.0005
8/23/2022	<0.0005				
8/24/2022		<0.0005			<0.0005
8/25/2022			<0.0005	<0.0005	
1/25/2023		<0.0005	<0.0005		
1/26/2023	<0.0005				<0.0005
1/27/2023				<0.0005	
9/6/2023	<0.0005		<0.0005		<0.0005
9/8/2023		<0.0005		<0.0005	
2/10/2024	<0.0005				
2/14/2024		<0.0005	<0.0005	<0.0005	<0.0005
Mean	0.0004397	0.0003726	0.0004771	0.0004366	0.0004471
Std. Dev.	0.0001518	0.0001889	0.0001024	0.0001678	0.0001398
Upper Lim.	0.0005	0.0005	0.0005	0.0005	0.0005
Lower Lim.	0.00012	0.00015	4.2E-05	5.6E-05	0.00013

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 4/10/2024 3:59 PM View: Pond BCD Appendix IV - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

	PZ-51I	PZ-58I	PZ-61I
1/19/2019	<0.0005		
10/18/2019	<0.0005		
8/20/2020	<0.0005		
9/17/2020	0.00036 (J)		
3/4/2021	0.00017 (J)		
9/27/2021	<0.0005		0.0019
9/28/2021		<0.005	
2/2/2022	<0.0005		<0.0005
2/3/2022		<0.005	
8/24/2022	<0.0005	0.000894 (J)	0.00113 (J)
1/26/2023	<0.0005	0.000895 (J)	<0.0005
8/31/2023			<0.0005
9/8/2023	<0.0005	0.00086 (J)	
2/14/2024	<0.0005	0.000825 (J)	<0.0005
Mean	0.0004573	0.002246	0.0008383
Std. Dev.	0.0001041	0.002134	0.0005779
Upper Lim.	0.0005	0.005	0.0019
Lower Lim.	0.00036	0.000825	0.0005

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 4/10/2024 3:59 PM View: Pond BCD Appendix IV - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45
9/6/2016			0.0117 (J)		
9/8/2016	0.0021 (J)	0.004 (J)		<0.05	
11/18/2016	<0.003				
11/21/2016		0.0039 (J)	0.0108 (J)	<0.05	
2/21/2017	<0.003				
2/22/2017		0.0043 (J)	0.0103 (J)	0.0023 (J)	
6/13/2017	0.0017 (J)				
6/14/2017		0.0036 (J)	0.0101 (J)	0.0022 (J)	
9/27/2017	0.0016 (J)	0.0038 (J)	0.0116 (J)	0.0021 (J)	
2/14/2018	0.0018 (J)	0.0034 (J)	0.0115 (J)	0.0023 (J)	
3/6/2018					0.0031 (J)
5/1/2018					0.0038 (J)
6/27/2018	0.0016 (J)	0.0034 (J)		0.0023 (J)	
6/28/2018			0.013 (J)		0.0028 (J)
7/31/2018					<0.25 (o)
8/23/2018					0.0033 (J)
9/19/2018					0.0033 (J)
10/29/2018					0.003 (J)
11/28/2018					0.0035 (J)
12/18/2018		0.0032 (J)	0.014 (J)		
12/19/2018				0.0018 (J)	
12/20/2018	0.0015 (J)				0.003 (J)
8/27/2019			0.016 (J)	0.0022 (J)	
8/28/2019	0.0016 (J)	0.0033 (J)			0.0034 (J)
10/16/2019		0.0029 (J)			
12/3/2019					0.0033 (J)
12/4/2019	0.0014 (J)		0.013 (J)	0.0022 (J)	
3/4/2020	0.0014 (J)	0.0029 (J)			
3/5/2020			0.016 (J)	0.0022 (J)	0.003 (J)
8/19/2020	0.0014 (J)	0.0029 (J)	0.018 (J)	0.002 (J)	
8/20/2020					0.0034 (J)
9/15/2020		0.003 (J)			
9/16/2020	0.0014 (J)		0.016 (J)	0.0022 (J)	0.0036 (J)
3/2/2021					0.0043 (J)
3/3/2021	0.0012 (J)	0.0032 (J)	0.014 (J)		
3/4/2021				0.002 (J)	
9/23/2021					0.0023 (J)
9/28/2021	0.0011 (J)	0.0029 (J)	0.023 (J)	0.0021 (J)	
2/2/2022			0.021 (J)	0.0035 (J)	0.0022 (J)
2/3/2022		0.0026 (J)			
2/4/2022	0.001 (J)				
8/24/2022		0.00304 (J)	0.0238		
8/25/2022	<0.003			0.0043 (J)	<0.003
1/24/2023				0.007 (J)	
1/25/2023	<0.003				0.00333 (J)
1/26/2023		0.00331 (J)	0.0279		
8/31/2023			0.0253	0.00392 (J)	
9/6/2023	<0.003	0.00349 (J)			<0.003
2/10/2024			0.0305	0.00591 (J)	
2/13/2024	<0.003	0.00337 (J)			
2/14/2024					<0.003
Mean	0.00194	0.003326	0.01688	0.005127	0.003182

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 4/10/2024 3:59 PM View: Pond BCD Appendix IV - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45
Std. Dev.	0.00075	0.000432	0.006242	0.006938	0.0004679
Upper Lim.	0.001511	0.003571	0.02042	0.0043	0.003447
Lower Lim.	0.001164	0.00308	0.01333	0.0021	0.002916

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 4/10/2024 3:59 PM View: Pond BCD Appendix IV - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-47	BRGWC-50	BRGWC-52I	PZ-44	PZ-50D
3/6/2018	0.0399 (J)			0.0046 (J)	
3/15/2018		0.038 (J)			
5/1/2018	0.0475 (JD)	0.042 (J)		0.0049 (J)	
6/27/2018	0.044 (J)				
6/28/2018		0.04 (J)			
8/1/2018	0.039 (J)	0.036 (J)			
8/10/2018			0.0087 (J)		
8/23/2018	0.044 (J)		0.0089 (J)		
9/19/2018	0.043 (J)		0.005 (J)		
10/29/2018	0.039 (J)	0.041 (J)	0.0048 (J)		
11/28/2018	0.044 (J)	0.041 (J)	0.0052 (J)		
12/19/2018	0.043 (J)	0.043 (J)			
12/20/2018			0.0042 (J)		
1/16/2019		0.042 (J)			
1/17/2019			0.0039 (J)		
2/13/2019			<0.05		
8/28/2019	0.044				
8/29/2019		0.039	0.0052 (J)		
10/16/2019	0.038	0.034	0.0023 (J)		
3/4/2020	0.042	0.042	0.002 (J)		
8/20/2020	0.044	0.04	0.0022 (J)		
9/16/2020	0.039				
9/17/2020		0.052	0.0058 (J)		
3/2/2021	0.044				
3/4/2021		0.05	0.003 (J)		
3/5/2021					0.019 (J)
9/23/2021	0.042				
9/27/2021		0.038			
9/28/2021			0.0035 (J)	0.0048 (J)	0.02 (J)
2/2/2022	0.04		0.0041 (J)	0.0058 (J)	
2/3/2022		0.038			0.024 (J)
8/23/2022	0.0474				
8/24/2022		0.0428			
8/25/2022			0.0162	0.00652 (J)	0.0255
1/25/2023		0.0542	0.0186	0.00728 (J)	
1/26/2023	0.0506				
1/27/2023					0.0274
9/6/2023	0.0532		0.0131		
9/8/2023		0.0393		0.0056 (J)	0.0232
2/10/2024	0.0484			0.00537 (J)	
2/14/2024		0.0376	0.0122		0.0254
Mean	0.04362	0.0415	0.007695	0.005609	0.0235
Std. Dev.	0.004013	0.005145	0.006263	0.0009174	0.003046
Upper Lim.	0.04583	0.04423	0.01003	0.006581	0.02712
Lower Lim.	0.04141	0.03857	0.004068	0.004636	0.01988

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 4/10/2024 3:59 PM View: Pond BCD Appendix IV - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	PZ-51D	PZ-51I	PZ-58I	PZ-60I	PZ-61I
1/19/2019		0.019 (J)			
10/18/2019		0.019 (J)			
8/20/2020		0.019 (J)			
9/17/2020		0.021 (J)			
3/3/2021	0.0093 (J)				
3/4/2021		0.026 (J)			
9/27/2021		0.02 (J)			0.0095 (J)
9/28/2021	0.0096 (J)		0.041	0.1	
2/2/2022		0.021 (J)			0.011 (J)
2/3/2022	0.0096 (J)		0.041	0.098	
8/24/2022	0.0042 (J)	0.0222	0.0488	0.101	0.00913 (J)
1/26/2023	0.00883 (J)	0.0247	0.0553	0.114	0.0123
8/31/2023					0.0106
9/6/2023	0.00667 (J)				
9/8/2023		0.0221	0.0468	0.0936	
2/14/2024	0.00929 (J)	0.0225	0.0508	0.0958	0.00995 (J)
Mean	0.008213	0.0215	0.04728	0.1004	0.01041
Std. Dev.	0.002043	0.00232	0.005624	0.007192	0.001152
Upper Lim.	0.00977	0.02343	0.05501	0.1103	0.012
Lower Lim.	0.006905	0.01957	0.03956	0.09052	0.008831

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 4/10/2024 3:59 PM View: Pond BCD Appendix IV - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

	PZ-63I	PZ-64I
2/4/2022	0.007 (J)	
8/25/2022	0.00509 (J)	
10/12/2022		0.0181
1/30/2023	0.0066 (J)	0.0187
9/8/2023	0.00516 (J)	0.0126
2/14/2024	0.00557 (J)	0.0124
Mean	0.005884	0.01545
Std. Dev.	0.0008677	0.003416
Upper Lim.	0.007338	0.02208
Lower Lim.	0.00443	0.002732

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 4/10/2024 3:59 PM View: Pond BCD Appendix IV - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S
9/6/2016				<6.7E-05	
9/8/2016	<6.7E-05	<6.7E-05	<0.0002		<6.7E-05
11/17/2016	<6.7E-05				
11/18/2016		<6.7E-05			
11/21/2016			<0.0002	<6.7E-05	<6.7E-05
2/21/2017	<6.7E-05	<6.7E-05			
2/22/2017			<0.0002	<6.7E-05	<6.7E-05
6/13/2017	<6.7E-05	5E-05 (J)			
6/14/2017			7E-05 (J)	7E-05 (J)	9E-05 (J)
9/27/2017	4E-05 (J)	4.7E-05 (J)	4E-05 (J)	4E-05 (J)	0.0001 (J)
2/14/2018	<6.7E-05	<6.7E-05	<0.0002	<6.7E-05	<6.7E-05
6/26/2018	<6.7E-05				
6/27/2018		<6.7E-05	<0.0002		<6.7E-05
6/28/2018				<6.7E-05	
12/18/2018	<6.7E-05		<0.0002	<6.7E-05	
12/19/2018					<6.7E-05
12/20/2018		<6.7E-05			
8/27/2019	<6.7E-05			<6.7E-05	<6.7E-05
8/28/2019		<6.7E-05	<0.0002		
8/19/2020	8.3E-05 (J)	<6.7E-05	9.8E-05 (J)	8.2E-05 (J)	8.2E-05 (J)
9/15/2020	<6.7E-05		<0.0002		
9/16/2020		<6.7E-05		<6.7E-05	<6.7E-05
3/2/2021	<6.7E-05				
3/3/2021		<6.7E-05	<0.0002	<6.7E-05	
3/4/2021					<6.7E-05
9/28/2021	<6.7E-05	<6.7E-05	<0.0002	<6.7E-05	<6.7E-05
2/2/2022	<6.7E-05			<6.7E-05	<6.7E-05
2/3/2022			<0.0002		
2/4/2022		<6.7E-05			
8/23/2022	<6.7E-05				
8/24/2022			<0.0002	<6.7E-05	
8/25/2022		<6.7E-05			<6.7E-05
1/24/2023					<6.7E-05
1/25/2023		<6.7E-05			
1/26/2023	<6.7E-05		<0.0002	<6.7E-05	
8/25/2023				<6.7E-05	<6.7E-05
8/29/2023	<6.7E-05	<6.7E-05	<0.0002		
2/2/2024				<6.7E-05	<6.7E-05
2/5/2024	<6.7E-05	<6.7E-05	0.00078		
Mean	6.639E-05	6.494E-05	0.0002104	6.65E-05	7.094E-05
Std. Dev.	7.586E-06	6.005E-06	0.0001509	7.509E-06	9.588E-06
Upper Lim.	8.3E-05	6.7E-05	0.00078	7E-05	8.2E-05
Lower Lim.	4E-05	5E-05	9.8E-05	4E-05	6.7E-05

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 4/10/2024 3:59 PM View: Pond BCD Appendix IV - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	PZ-51I	PZ-58I
1/19/2019	<6.7E-05	
10/18/2019	<6.7E-05	
8/20/2020	9.9E-05 (J)	
9/17/2020	<6.7E-05	
3/4/2021	<6.7E-05	
9/27/2021	<6.7E-05	
9/28/2021		<0.0002
2/2/2022	<6.7E-05	
2/3/2022		<0.0002
8/24/2022	<6.7E-05	<0.0002
1/26/2023	<6.7E-05	<0.0002
8/29/2023	<6.7E-05	<0.0002
2/6/2024	<6.7E-05	0.00146
Mean	6.991E-05	0.00041
Std. Dev.	9.648E-06	0.0005144
Upper Lim.	6.7E-05	0.00146
Lower Lim.	6.7E-05	0.0002

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 4/10/2024 3:59 PM View: Pond BCD Appendix IV - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-30I	BRGWC-45	BRGWC-47
9/6/2016			<0.01		
9/8/2016	<0.01	<0.001			
11/17/2016	<0.01				
11/18/2016		<0.001			
11/21/2016			<0.01		
2/21/2017	<0.01	<0.001			
2/22/2017			<0.01		
6/13/2017	<0.01	<0.001			
6/14/2017			<0.01		
9/27/2017	<0.01	<0.001	<0.01		
2/14/2018	<0.01	<0.001	<0.01		
3/6/2018				<0.0002	<0.01
5/1/2018				<0.0002	<0.01 (D)
6/26/2018	<0.01				
6/27/2018		<0.001			<0.01
6/28/2018			<0.01	<0.0002	
7/31/2018				<0.0002	
8/1/2018					<0.01
8/23/2018				<0.0002	<0.01
9/19/2018				<0.0002	<0.01
10/29/2018				<0.0002	<0.01
11/28/2018				<0.0002	<0.01
12/18/2018	<0.01		<0.01		
12/19/2018					<0.01
12/20/2018		<0.001		<0.0002	
8/27/2019	<0.01		<0.01		
8/28/2019		<0.001		<0.0002	<0.01
10/15/2019	<0.01				
10/16/2019					<0.01
12/3/2019				<0.0002	
12/4/2019		<0.001	<0.01		
8/19/2020	0.00081 (J)	<0.001	0.00078 (J)		
8/20/2020				0.00076 (J)	<0.01
9/15/2020	0.0008 (J)				
9/16/2020		<0.001	0.0022 (J)	<0.0002	<0.01
3/2/2021	0.001 (J)			<0.0002	<0.01
3/3/2021		<0.001	<0.01		
9/23/2021				<0.0002	<0.01
9/28/2021	0.00089 (J)	<0.001	0.001 (J)		
2/2/2022	0.0011 (J)		0.0012 (J)	<0.0002	<0.01
2/4/2022		<0.001			
8/23/2022	0.00105				0.000296 (J)
8/24/2022			0.00141		
8/25/2022		<0.001		0.000424 (J)	
1/25/2023		<0.001		0.000545 (J)	
1/26/2023	0.00092 (J)		0.0014		0.00027 (J)
8/31/2023			0.00111		
9/6/2023	0.00141	<0.001		0.000356 (J)	0.000296 (J)
2/10/2024			0.00137		0.00028 (J)
2/13/2024	0.0014	0.000213 (J)			
2/14/2024				<0.0002	
Mean	0.005757	0.0009586	0.006341	0.0002642	0.008057

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 4/10/2024 3:59 PM View: Pond BCD Appendix IV - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-30I	BRGWC-45	BRGWC-47
Std. Dev.	0.004598	0.0001806	0.004417	0.0001495	0.003987
Upper Lim.	0.01	0.001	0.01	0.000356	0.01
Lower Lim.	0.00092	0.000213	0.0012	0.0002	0.000296

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 4/10/2024 3:59 PM View: Pond BCD Appendix IV - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-50	BRGWC-52I	PZ-50D	PZ-51D	PZ-51I
3/15/2018	<0.0002				
5/1/2018	0.0022 (J)				
6/28/2018	<0.0002				
8/1/2018	0.0033 (J)				
8/10/2018		0.0032 (J)			
8/23/2018		0.005 (J)			
9/19/2018		0.0061 (J)			
10/29/2018	<0.0002	0.0065 (J)			
11/28/2018	<0.0002	0.0027 (J)			
12/19/2018	<0.0002				
12/20/2018		<0.01			
1/16/2019	<0.0002				
1/17/2019		<0.01			
1/19/2019					<0.001
2/13/2019		<0.01			
8/29/2019	<0.0002	<0.01			
10/16/2019	<0.0002	<0.01			
10/18/2019					<0.001
8/20/2020	<0.0002	0.0012 (J)			<0.001
9/17/2020	<0.0002	0.0007 (J)			<0.001
3/3/2021				0.0068 (J)	
3/4/2021	<0.0002	0.001 (J)			<0.001
3/5/2021			0.0017 (J)		
9/27/2021	<0.0002				<0.001
9/28/2021		<0.01	0.0021 (J)	0.0029 (J)	
2/2/2022		<0.01			<0.001
2/3/2022	<0.0002		0.0012 (J)	0.0017 (J)	
8/24/2022	<0.0002			0.00171	0.000313 (J)
8/25/2022		0.000471 (J)	0.00109		
1/25/2023	<0.0002	0.000609 (J)			
1/26/2023				0.00085 (J)	0.000283 (J)
1/27/2023			0.000817 (J)		
9/6/2023		0.000782 (J)		0.00142	
9/8/2023	<0.0002		<0.001		<0.001
2/14/2024	<0.0002	0.000564 (J)	0.000839 (J)	0.00198	0.000201 (J)
Mean	0.0004684	0.005201	0.001178	0.00248	0.0007997
Std. Dev.	0.0008247	0.004166	0.0005531	0.002003	0.000344
Upper Lim.	0.0022	0.01	0.001835	0.004493	0.001
Lower Lim.	0.0002	0.0007	0.000521	0.0008093	0.000283

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 4/10/2024 3:59 PM View: Pond BCD Appendix IV - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

	PZ-63I	PZ-64I
2/4/2022	0.00092 (J)	
8/25/2022	0.000741 (J)	
10/12/2022		0.000432 (J)
1/30/2023	0.000803 (J)	0.000201 (J)
9/8/2023	0.000539 (J)	<0.0002
2/14/2024	0.0007 (J)	<0.0002
Mean	0.0007406	0.0002582
Std. Dev.	0.00014	0.0001158
Upper Lim.	0.0009751	0.000432
Lower Lim.	0.0005061	0.0002

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 4/10/2024 3:59 PM View: Pond BCD Appendix IV - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S
9/6/2016				<0.0015	
9/8/2016	<0.0015	0.0043 (J)	0.0039 (J)		<0.01
11/17/2016	<0.0015				
11/18/2016		0.0047 (J)			
11/21/2016			0.0058 (J)	<0.0015	<0.01
2/21/2017	<0.0015	0.0025 (J)			
2/22/2017			0.005 (J)	<0.0015	0.0017 (J)
6/13/2017	<0.0015	0.0036 (J)			
6/14/2017			0.0074 (J)	0.0045 (J)	<0.01
9/27/2017	<0.0015	0.004 (J)	0.0068 (J)	0.0034 (J)	0.0019 (J)
2/14/2018	<0.0015	<0.0015	<0.005	<0.0015	<0.01
6/26/2018	<0.0015				
6/27/2018		0.0014 (J)	<0.005		0.0017 (J)
6/28/2018				<0.0015	
12/18/2018	<0.0015		<0.005	<0.0015	
12/19/2018					0.0059 (J)
12/20/2018		<0.0015			
8/27/2019	<0.0015			0.0038 (J)	0.057
8/28/2019		0.0017 (J)	<0.005		
10/15/2019	<0.0015				
10/16/2019			<0.005		
12/4/2019		0.0036 (J)		0.0018 (J)	0.1
3/4/2020	<0.0015	0.0022 (J)	0.0018 (J)		
3/5/2020				<0.0015	0.1
5/12/2020					0.0989
8/19/2020	<0.0015	<0.0015	<0.005	<0.0015	0.099
9/15/2020	<0.0015		<0.005		
9/16/2020		0.0042 (J)		<0.0015	0.12
3/2/2021	0.0021 (J)				
3/3/2021		0.0031 (J)	0.0042 (J)	<0.0015	
3/4/2021					0.14
9/28/2021	<0.0015	<0.0015	0.0022 (J)	<0.0015	0.13
2/2/2022	<0.0015			<0.0015	0.21
2/3/2022			<0.005		
2/4/2022		<0.0015			
8/23/2022	<0.0015				
8/24/2022			<0.005	<0.0015	
8/25/2022		<0.0015			0.218
1/24/2023					0.198
1/25/2023		<0.0015			
1/26/2023	<0.0015		<0.005	<0.0015	
8/31/2023				<0.0015	0.21
9/6/2023	<0.0015	<0.0015	<0.005		
2/10/2024				<0.0015	0.17
2/13/2024	<0.0015	<0.0015	0.00229 (J)		
Mean	0.00153	0.00244	0.004719	0.001875	0.1424
Std. Dev.	0.0001342	0.001189	0.001364	0.0008938	0.05326
Upper Lim.	0.0021	0.0036	0.005	0.0018	0.182
Lower Lim.	0.0015	0.0015	0.0042	0.0015	0.1028

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 4/10/2024 3:59 PM View: Pond BCD Appendix IV - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-45	BRGWC-47	BRGWC-50	PZ-58I	PZ-60I
3/6/2018	<0.0015	<0.0015			
3/15/2018			<0.0015		
5/1/2018	<0.0015	<0.0015 (D)	<0.0015		
6/27/2018		<0.0015			
6/28/2018	<0.0015		<0.0015		
7/31/2018	<0.0015				
8/1/2018		0.0015 (J)	0.0031 (J)		
8/23/2018	<0.0015	<0.0015 (X)			
9/19/2018	<0.0015	0.002 (J)			
10/29/2018	<0.0015	<0.0015	0.002 (J)		
11/28/2018	<0.0015	<0.0015	0.0017 (J)		
12/19/2018		<0.0015	<0.0015		
12/20/2018	<0.0015				
1/16/2019			<0.0015		
8/28/2019	<0.0015	<0.0015			
8/29/2019			<0.0015		
10/16/2019		0.0017 (J)	0.002 (J)		
12/3/2019	0.0029 (J)				
3/4/2020		<0.0015	0.0026 (J)		
3/5/2020	<0.0015				
8/20/2020	<0.0015	0.0016 (J)	0.0037 (J)		
9/16/2020	<0.0015	0.002 (J)			
9/17/2020			<0.0015		
3/2/2021	<0.0015	0.0028 (J)			
3/4/2021			0.0039 (J)		
9/23/2021	<0.0015	<0.0015			
9/27/2021			0.0022 (J)		
9/28/2021				0.0034 (J)	0.0049 (J)
2/2/2022	<0.0015	<0.0015			
2/3/2022			<0.0015	0.0016 (J)	0.0026 (J)
8/23/2022		<0.0015			
8/24/2022			0.00176 (J)	0.00348 (J)	0.00417 (J)
8/25/2022	<0.0015				
1/25/2023	<0.0015		0.00189 (J)		
1/26/2023		<0.0015		0.00265 (J)	0.0031 (J)
9/6/2023	<0.0015	<0.0015			
9/8/2023			<0.0015	0.00494 (J)	0.0043 (J)
2/10/2024		<0.0015			
2/14/2024	<0.0015		<0.0015	0.00331 (J)	0.00275 (J)
Mean	0.001567	0.001624	0.001993	0.00323	0.003637
Std. Dev.	0.0003055	0.0003097	0.0007528	0.001097	0.0009454
Upper Lim.	0.0029	0.0016	0.0022	0.004737	0.004935
Lower Lim.	0.0015	0.0015	0.0015	0.001723	0.002338

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 4/10/2024 3:59 PM View: Pond BCD Appendix IV - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

	PZ-61I	PZ-64I
9/27/2021	0.0079	
2/2/2022	0.0031 (J)	
8/24/2022	0.0051	
10/12/2022		0.0171
1/26/2023	0.00321 (J)	
1/30/2023		0.0292
8/31/2023	0.00483 (J)	
9/8/2023		0.0163
2/14/2024	0.00231 (J)	0.0083
Mean	0.004408	0.01773
Std. Dev.	0.00202	0.00862
Upper Lim.	0.007183	0.0373
Lower Lim.	0.001634	0

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 4/10/2024 3:59 PM View: Pond BCD Appendix IV - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-29I
9/8/2016	<0.0006
11/21/2016	0.0002 (J)
2/22/2017	0.0002 (J)
6/14/2017	0.0002 (J)
9/27/2017	0.0002 (J)
2/14/2018	0.00018 (J)
6/27/2018	0.00017 (J)
12/18/2018	0.00017 (J)
8/28/2019	0.00017 (J)
10/16/2019	0.00017 (J)
3/4/2020	0.00016 (J)
8/19/2020	0.00016 (J)
9/15/2020	0.00016 (J)
3/3/2021	0.00018 (J)
9/28/2021	<0.0006
2/3/2022	<0.0006
8/24/2022	<0.0006
1/26/2023	<0.0006
9/6/2023	<0.0006
2/13/2024	<0.0006
Mean	0.000326
Std. Dev.	0.0002067
Upper Lim.	0.0006
Lower Lim.	0.00017

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/10/2024 3:59 PM View: Pond BCD - Confidence Intervals (Non-Parametric)
Plant Branch Client: Southern Company Data: Plant Branch AP

	PZ-58I	PZ-64I
9/28/2021	1.66	
2/3/2022	1.33	
8/24/2022	1.16	
10/12/2022		2.14
1/26/2023	4.03	
1/30/2023		3.5
9/22/2023	3.71	0.877 (U)
2/29/2024	0.162 (U)	1.05 (U)
Mean	2.009	1.892
Std. Dev.	1.529	1.209
Upper Lim.	4.03	3.5
Lower Lim.	0.162	0.877

FIGURE I.

Appendix IV - Trend Test Summary - Significant Results

Plant Branch Data: Plant Branch AP Printed 4/11/2024, 9:40 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Beryllium (mg/L)	**BRGWC-50**	**0.001258**	**144**	**62**	**Yes**	**20**	**10**	**n/a**	**n/a**	**0.05**	**NP**
Cadmium (mg/L)	**BRGWC-50**	**-0.005967**	**-117**	**-62**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**BRGWA-23S (bg)**	**-0.0006356**	**-130**	**-62**	**Yes**	**20**	**25**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**BRGWA-2S (bg)**	**-0.0003042**	**-132**	**-62**	**Yes**	**20**	**10**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**BRGWA-5I (bg)**	**-0.00009177**	**-71**	**-53**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**PZ-58I**	**0.0756**	**15**	**12**	**Yes**	**6**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**PZ-61I**	**0.1024**	**13**	**12**	**Yes**	**6**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	**BRGWA-6S (bg)**	**0.0001012**	**65**	**62**	**Yes**	**20**	**5**	**n/a**	**n/a**	**0.05**	**NP**
Selenium (mg/L)	**BRGWC-32S**	**0.032**	**149**	**66**	**Yes**	**21**	**19.05**	**n/a**	**n/a**	**0.05**	**NP**

Appendix IV - Trend Test Summary - All Results

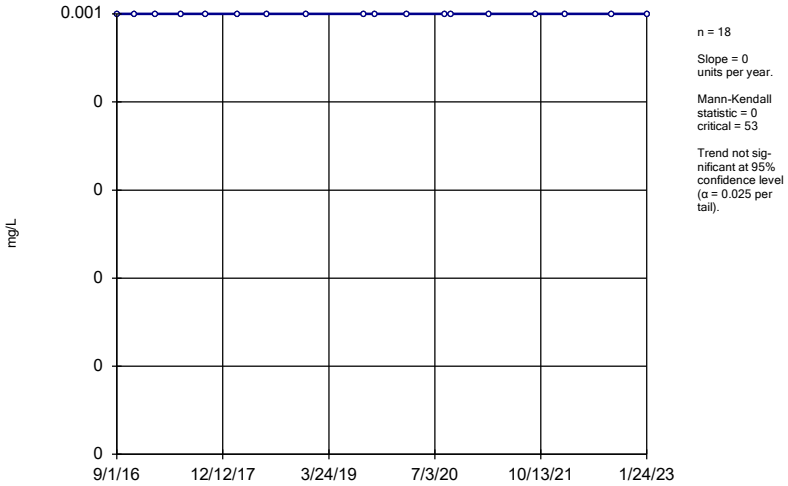
Plant Branch Data: Plant Branch AP Printed 4/11/2024, 9:40 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Beryllium (mg/L)	BRGWA-12I (bg)	0	0	53	No	18	100	n/a	n/a	0.05	NP
Beryllium (mg/L)	BRGWA-12S (bg)	0	0	53	No	18	100	n/a	n/a	0.05	NP
Beryllium (mg/L)	BRGWA-23S (bg)	0	0	62	No	20	100	n/a	n/a	0.05	NP
Beryllium (mg/L)	BRGWA-2I (bg)	0	0	62	No	20	100	n/a	n/a	0.05	NP
Beryllium (mg/L)	BRGWA-2S (bg)	0	0	62	No	20	100	n/a	n/a	0.05	NP
Beryllium (mg/L)	BRGWA-5I (bg)	0	0	62	No	20	100	n/a	n/a	0.05	NP
Beryllium (mg/L)	BRGWA-5S (bg)	0	0	62	No	20	100	n/a	n/a	0.05	NP
Beryllium (mg/L)	BRGWA-6S (bg)	0	0	62	No	20	100	n/a	n/a	0.05	NP
Beryllium (mg/L)	**BRGWC-50**	**0.001258**	**144**	**62**	**Yes**	**20**	**10**	**n/a**	**n/a**	**0.05**	**NP**
Beryllium (mg/L)	PZ-58I	0.004242	9	12	No	6	0	n/a	n/a	0.05	NP
Beryllium (mg/L)	PZ-60I	-0.003072	-3	-12	No	6	0	n/a	n/a	0.05	NP
Cadmium (mg/L)	BRGWA-12I (bg)	0	0	58	No	19	100	n/a	n/a	0.05	NP
Cadmium (mg/L)	BRGWA-12S (bg)	0	0	58	No	19	100	n/a	n/a	0.05	NP
Cadmium (mg/L)	BRGWA-23S (bg)	0	11	62	No	20	90	n/a	n/a	0.05	NP
Cadmium (mg/L)	BRGWA-2I (bg)	0	0	62	No	20	100	n/a	n/a	0.05	NP
Cadmium (mg/L)	BRGWA-2S (bg)	0	0	62	No	20	100	n/a	n/a	0.05	NP
Cadmium (mg/L)	BRGWA-5I (bg)	0	0	62	No	20	100	n/a	n/a	0.05	NP
Cadmium (mg/L)	BRGWA-5S (bg)	0	0	62	No	20	100	n/a	n/a	0.05	NP
Cadmium (mg/L)	BRGWA-6S (bg)	0	0	62	No	20	100	n/a	n/a	0.05	NP
Cadmium (mg/L)	**BRGWC-50**	**-0.005967**	**-117**	**-62**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Cadmium (mg/L)	PZ-60I	-0.0008179	-10	-12	No	6	0	n/a	n/a	0.05	NP
Cobalt (mg/L)	BRGWA-12I (bg)	0	0	58	No	19	100	n/a	n/a	0.05	NP
Cobalt (mg/L)	BRGWA-12S (bg)	0	0	58	No	19	100	n/a	n/a	0.05	NP
Cobalt (mg/L)	**BRGWA-23S (bg)**	**-0.0006356**	**-130**	**-62**	**Yes**	**20**	**25**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	BRGWA-2I (bg)	0	-52	-62	No	20	60	n/a	n/a	0.05	NP
Cobalt (mg/L)	**BRGWA-2S (bg)**	**-0.0003042**	**-132**	**-62**	**Yes**	**20**	**10**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**BRGWA-5I (bg)**	**-0.00009177**	**-71**	**-53**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	BRGWA-5S (bg)	0	-45	-62	No	20	70	n/a	n/a	0.05	NP
Cobalt (mg/L)	BRGWA-6S (bg)	0	12	62	No	20	75	n/a	n/a	0.05	NP
Cobalt (mg/L)	BRGWC-50	0	9	62	No	20	0	n/a	n/a	0.05	NP
Cobalt (mg/L)	PZ-51I	0.001153	29	34	No	13	0	n/a	n/a	0.05	NP
Cobalt (mg/L)	**PZ-58I**	**0.0756**	**15**	**12**	**Yes**	**6**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	PZ-60I	0.1491	11	12	No	6	0	n/a	n/a	0.05	NP
Cobalt (mg/L)	**PZ-61I**	**0.1024**	**13**	**12**	**Yes**	**6**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	PZ-63I	0.006396	8	10	No	5	0	n/a	n/a	0.05	NP
Cobalt (mg/L)	PZ-64I	-0.02986	0	8	No	4	0	n/a	n/a	0.05	NP
Lithium (mg/L)	BRGWA-12I (bg)	-0.0001266	-41	-53	No	18	0	n/a	n/a	0.05	NP
Lithium (mg/L)	BRGWA-12S (bg)	0	0	53	No	18	100	n/a	n/a	0.05	NP
Lithium (mg/L)	BRGWA-23S (bg)	0.0001892	25	62	No	20	0	n/a	n/a	0.05	NP
Lithium (mg/L)	BRGWA-2I (bg)	-0.002191	-52	-62	No	20	0	n/a	n/a	0.05	NP
Lithium (mg/L)	BRGWA-2S (bg)	0	0	62	No	20	100	n/a	n/a	0.05	NP
Lithium (mg/L)	BRGWA-5I (bg)	-0.0001304	-40	-62	No	20	30	n/a	n/a	0.05	NP
Lithium (mg/L)	BRGWA-5S (bg)	0	0	62	No	20	100	n/a	n/a	0.05	NP
Lithium (mg/L)	**BRGWA-6S (bg)**	**0.0001012**	**65**	**62**	**Yes**	**20**	**5**	**n/a**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	PZ-60I	-0.001764	-3	-12	No	6	0	n/a	n/a	0.05	NP
Selenium (mg/L)	BRGWA-12I (bg)	0	0	53	No	18	100	n/a	n/a	0.05	NP
Selenium (mg/L)	BRGWA-12S (bg)	0	0	53	No	18	100	n/a	n/a	0.05	NP
Selenium (mg/L)	BRGWA-23S (bg)	0	-26	-62	No	20	40	n/a	n/a	0.05	NP
Selenium (mg/L)	BRGWA-2I (bg)	0	0	62	No	20	100	n/a	n/a	0.05	NP
Selenium (mg/L)	BRGWA-2S (bg)	0	0	62	No	20	100	n/a	n/a	0.05	NP
Selenium (mg/L)	BRGWA-5I (bg)	0	0	62	No	20	100	n/a	n/a	0.05	NP
Selenium (mg/L)	BRGWA-5S (bg)	0	0	62	No	20	100	n/a	n/a	0.05	NP
Selenium (mg/L)	BRGWA-6S (bg)	0	0	62	No	20	100	n/a	n/a	0.05	NP
Selenium (mg/L)	**BRGWC-32S**	**0.032**	**149**	**66**	**Yes**	**21**	**19.05**	**n/a**	**n/a**	**0.05**	**NP**

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-12I (bg)



n = 18

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 53

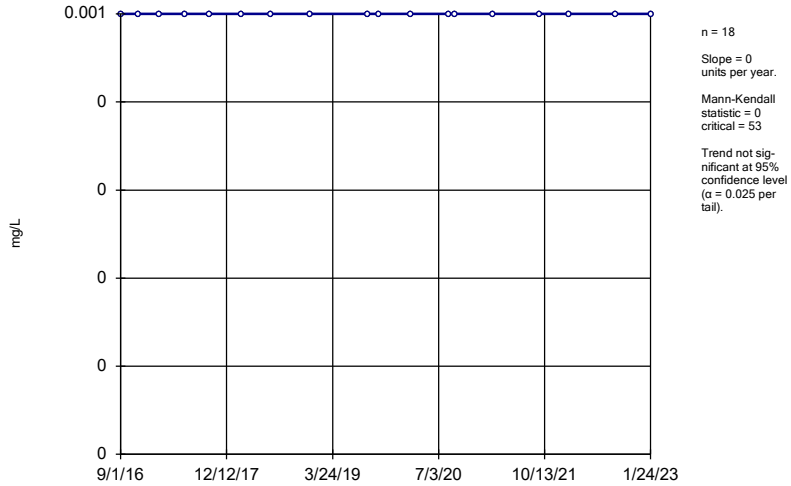
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Beryllium Analysis Run 4/11/2024 9:34 AM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-12S (bg)



n = 18

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 53

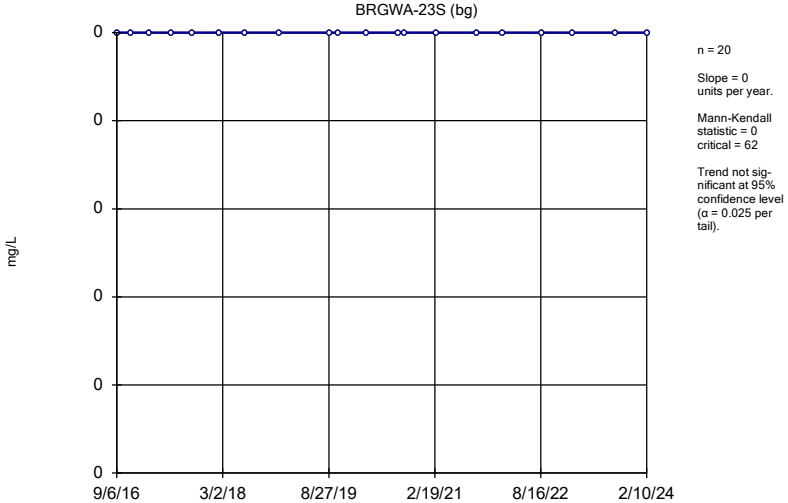
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Beryllium Analysis Run 4/11/2024 9:34 AM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-23S (bg)



n = 20

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 62

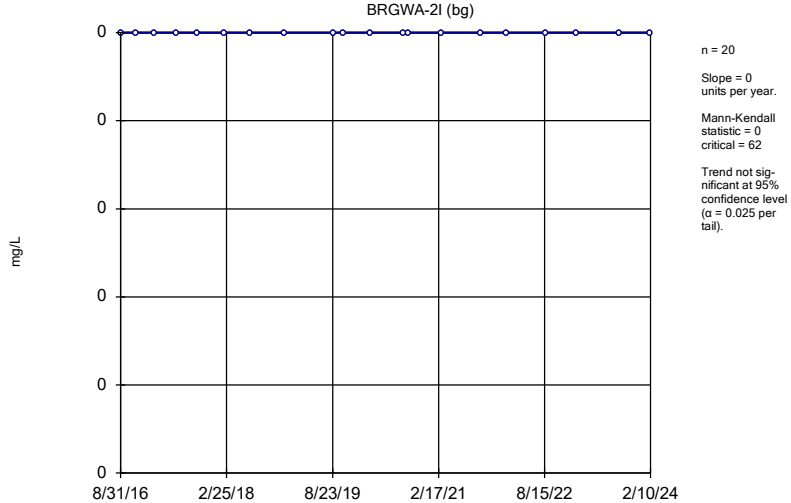
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Beryllium Analysis Run 4/11/2024 9:34 AM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-2I (bg)



n = 20

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 62

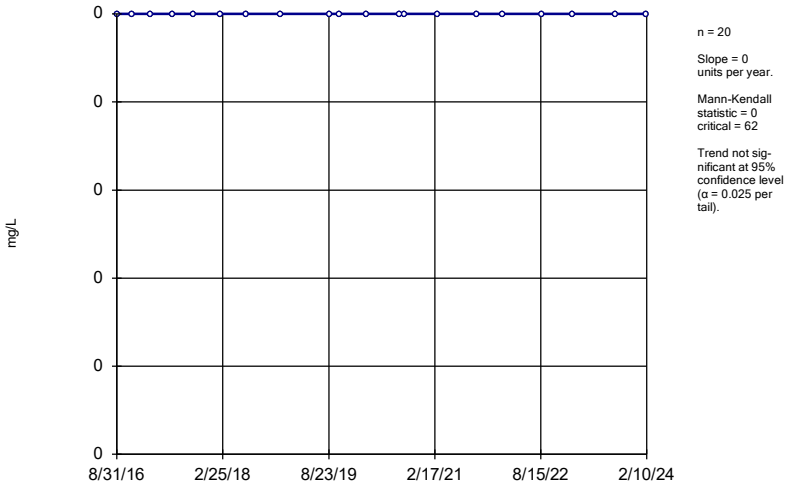
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Beryllium Analysis Run 4/11/2024 9:34 AM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-2S (bg)

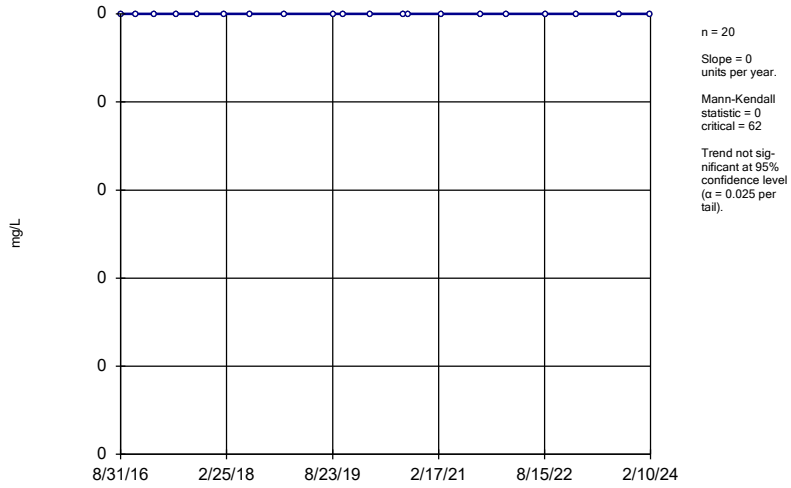


Constituent: Beryllium Analysis Run 4/11/2024 9:34 AM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-5I (bg)



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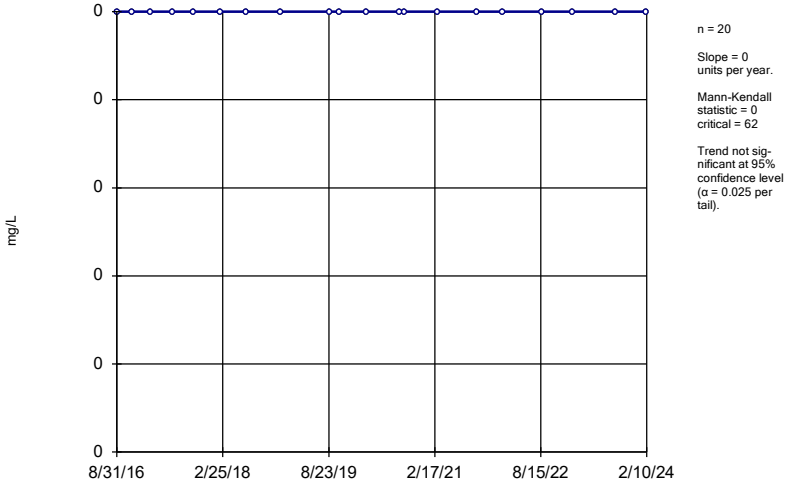
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-5S (bg)

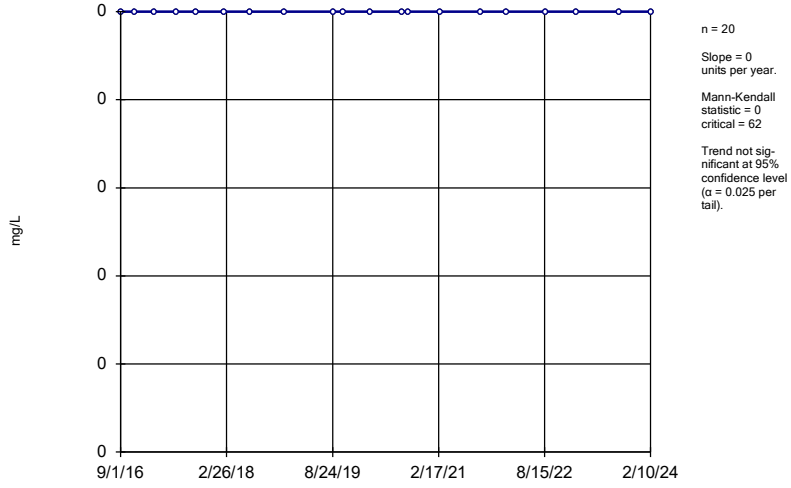


Constituent: Beryllium Analysis Run 4/11/2024 9:34 AM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-6S (bg)

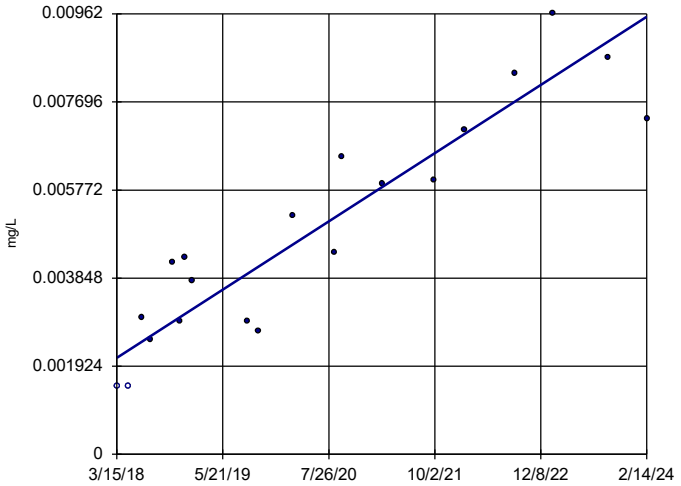


Constituent: Beryllium Analysis Run 4/11/2024 9:35 AM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWC-50



n = 20

Slope = 0.001258 units per year.

Mann-Kendall statistic = 144
critical = 62

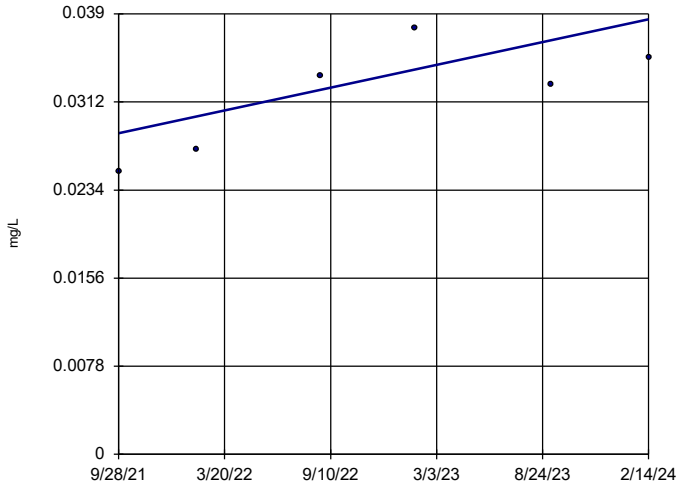
Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Beryllium Analysis Run 4/11/2024 9:35 AM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

PZ-58I



n = 6

Slope = 0.004242 units per year.

Mann-Kendall statistic = 9
critical = 12

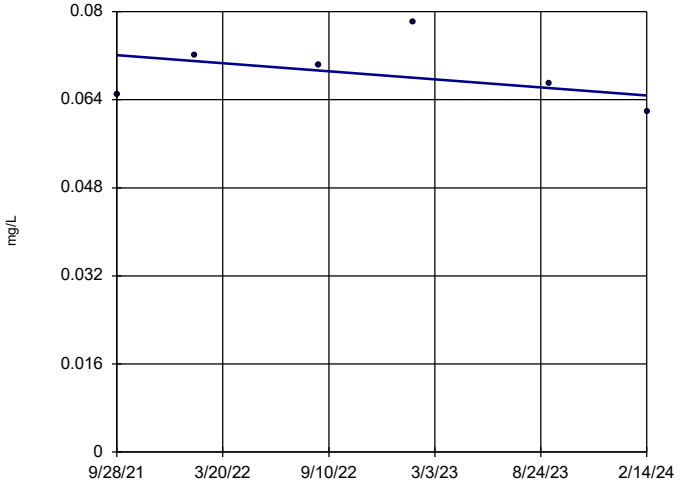
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Beryllium Analysis Run 4/11/2024 9:35 AM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

PZ-60I



n = 6

Slope = -0.003072 units per year.

Mann-Kendall statistic = -3
critical = -12

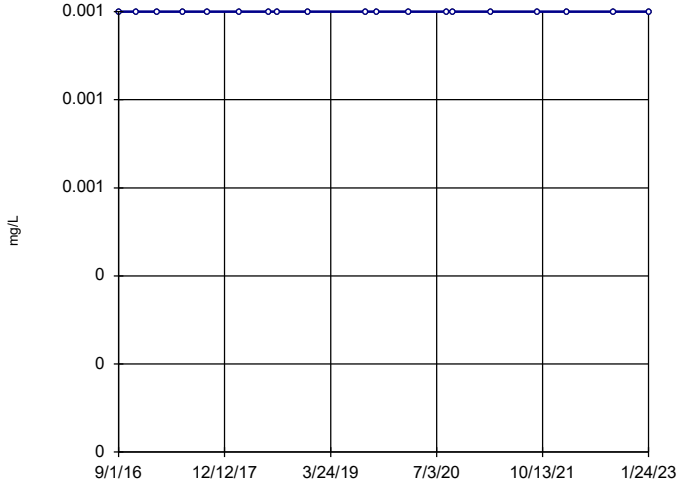
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Beryllium Analysis Run 4/11/2024 9:35 AM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-12I (bg)



n = 19

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 58

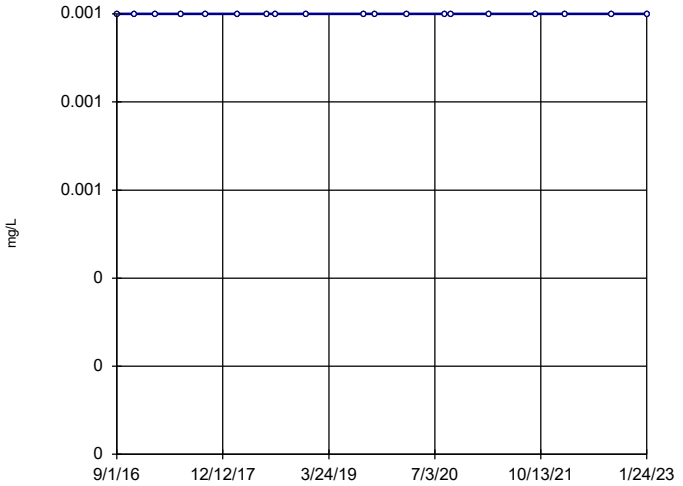
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cadmium Analysis Run 4/11/2024 9:35 AM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-12S (bg)



n = 19

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 58

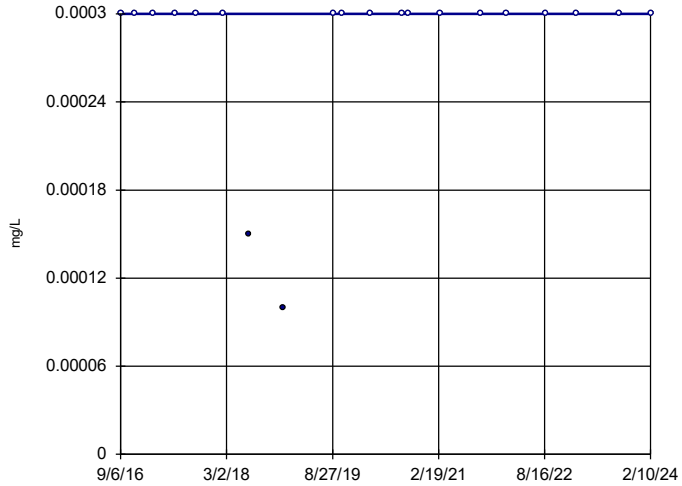
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cadmium Analysis Run 4/11/2024 9:35 AM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-23S (bg)



n = 20

Slope = 0 units per year.

Mann-Kendall statistic = 11
critical = 62

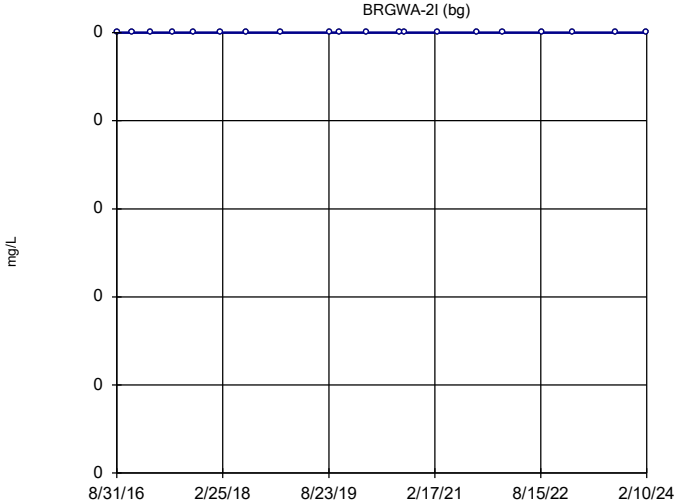
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cadmium Analysis Run 4/11/2024 9:35 AM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-2I (bg)



n = 20

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 62

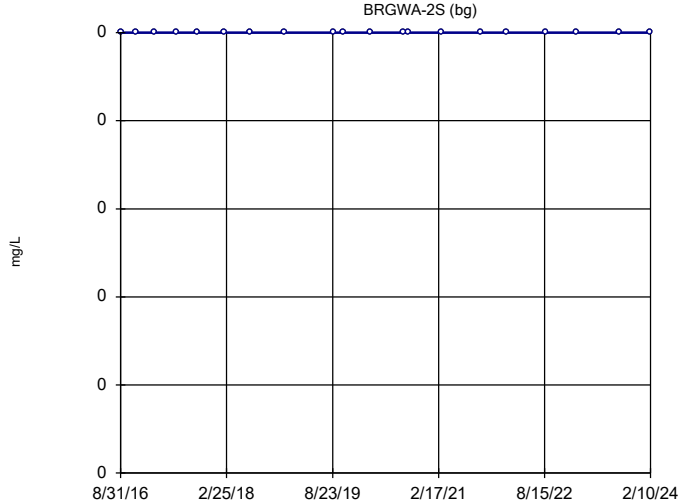
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cadmium Analysis Run 4/11/2024 9:35 AM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-2S (bg)



n = 20

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 62

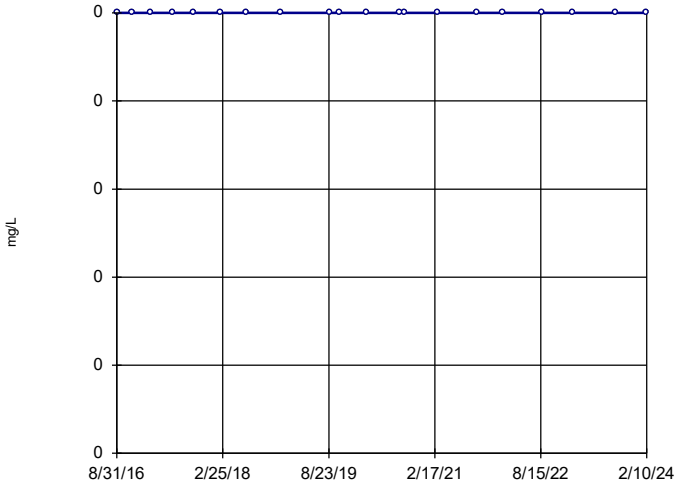
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cadmium Analysis Run 4/11/2024 9:35 AM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-5I (bg)



n = 20

Slope = 0
units per year.

Mann-Kendall
statistic = 0
critical = 62

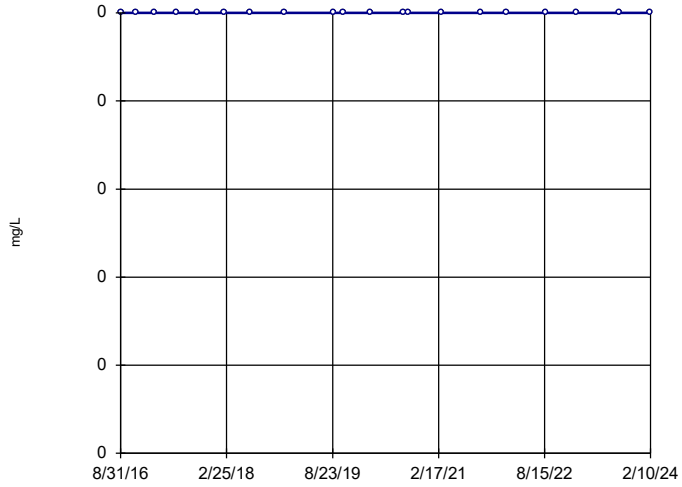
Trend not sig-
nificant at 95%
confidence level
(α = 0.025 per
tail).

Constituent: Cadmium Analysis Run 4/11/2024 9:35 AM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-5S (bg)



n = 20

Slope = 0
units per year.

Mann-Kendall
statistic = 0
critical = 62

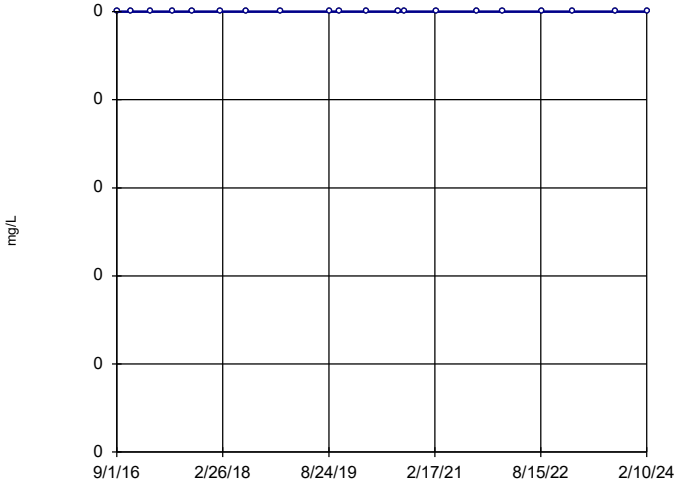
Trend not sig-
nificant at 95%
confidence level
(α = 0.025 per
tail).

Constituent: Cadmium Analysis Run 4/11/2024 9:35 AM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-6S (bg)



n = 20

Slope = 0
units per year.

Mann-Kendall
statistic = 0
critical = 62

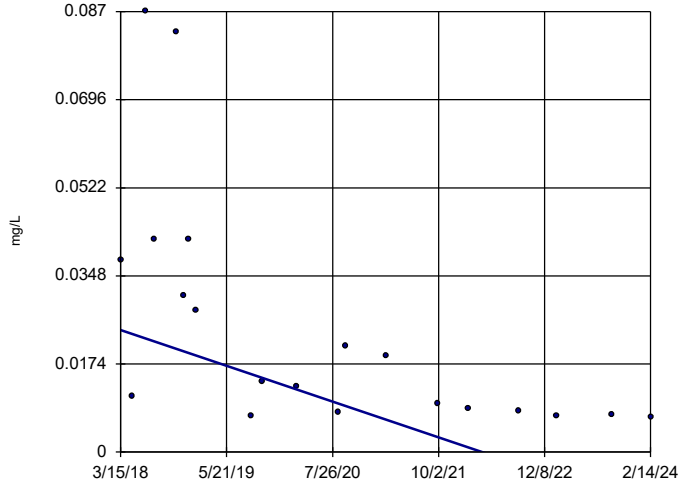
Trend not sig-
nificant at 95%
confidence level
(α = 0.025 per
tail).

Constituent: Cadmium Analysis Run 4/11/2024 9:35 AM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWC-50



n = 20

Slope = -0.005967
units per year.

Mann-Kendall
statistic = -117
critical = -62

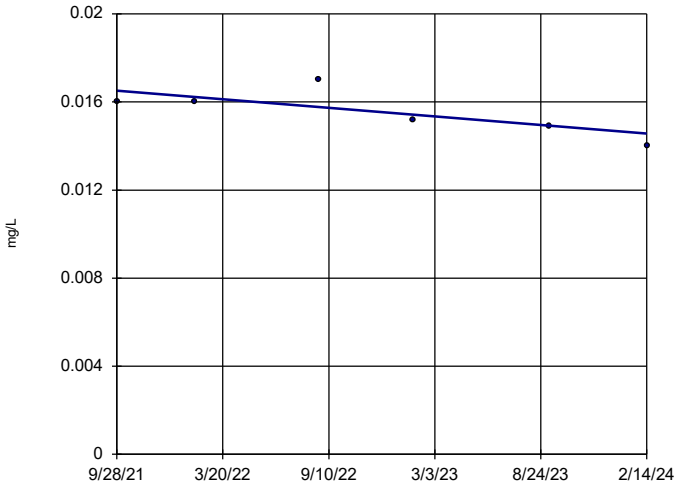
Decreasing trend
significant at 95%
confidence level
(α = 0.025 per
tail).

Constituent: Cadmium Analysis Run 4/11/2024 9:35 AM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

PZ-60I



n = 6

Slope = -0.0008179 units per year.

Mann-Kendall statistic = -10
critical = -12

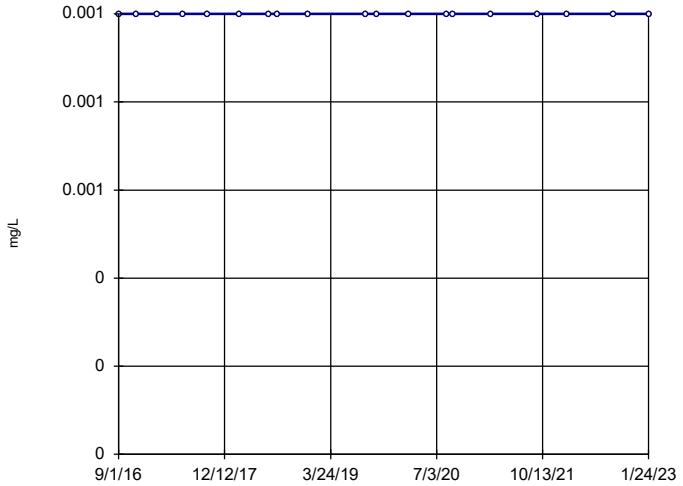
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cadmium Analysis Run 4/11/2024 9:35 AM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-12I (bg)



n = 19

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 58

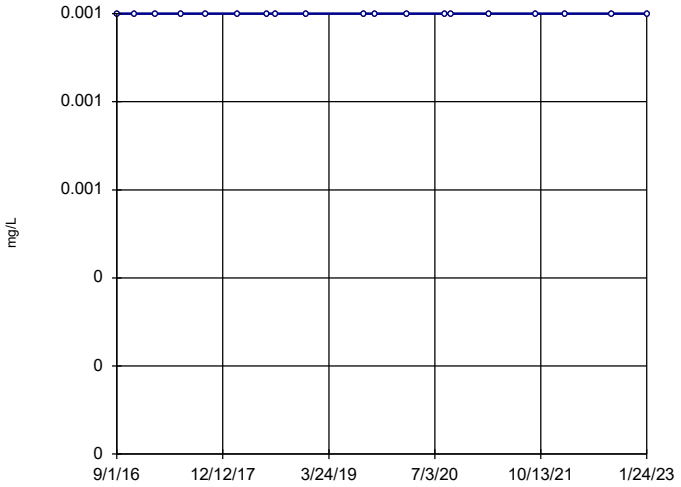
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 4/11/2024 9:35 AM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-12S (bg)



n = 19

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 58

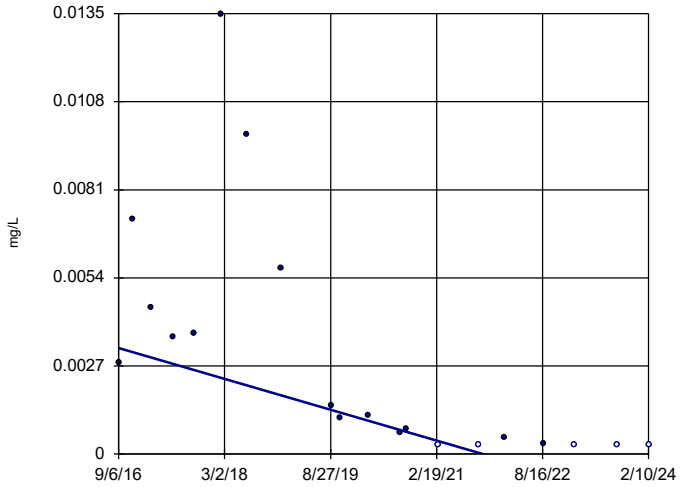
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 4/11/2024 9:35 AM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-23S (bg)



n = 20

Slope = -0.0006356 units per year.

Mann-Kendall statistic = -130
critical = -62

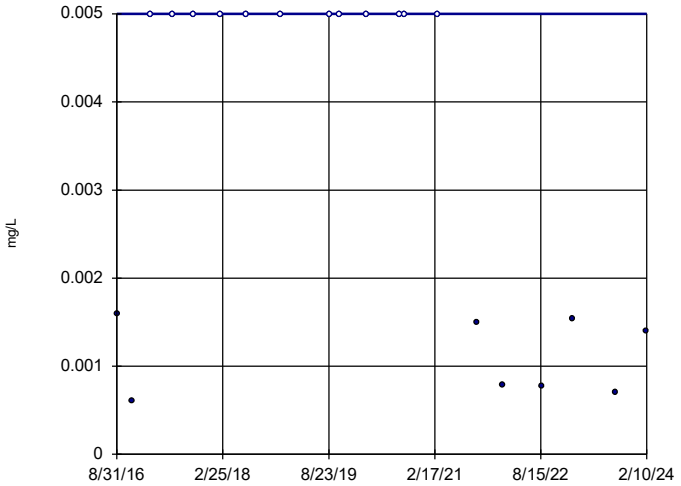
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 4/11/2024 9:35 AM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-2I (bg)



n = 20

Slope = 0
units per year.

Mann-Kendall
statistic = -52
critical = -62

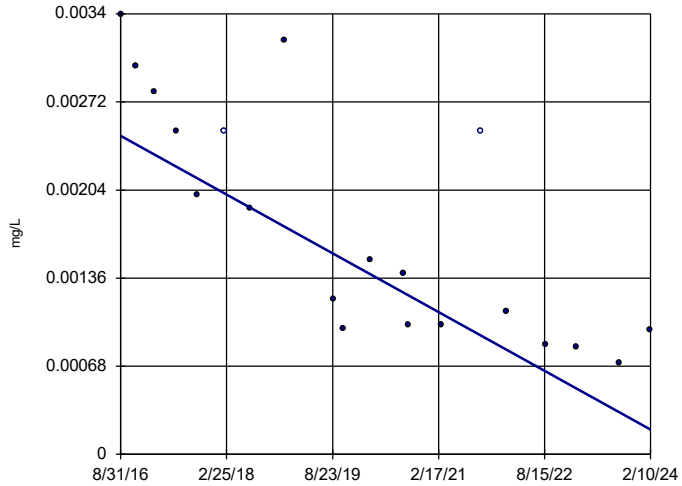
Trend not sig-
nificant at 95%
confidence level
(α = 0.025 per
tail).

Constituent: Cobalt Analysis Run 4/11/2024 9:35 AM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-2S (bg)



n = 20

Slope = -0.0003042
units per year.

Mann-Kendall
statistic = -132
critical = -62

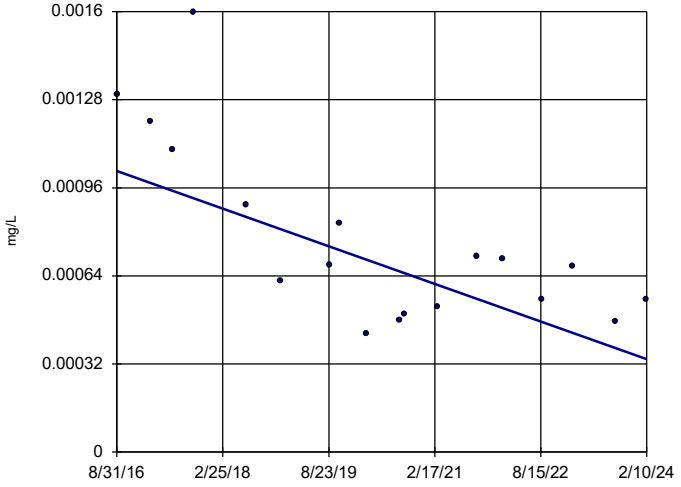
Decreasing trend
significant at 95%
confidence level
(α = 0.025 per
tail).

Constituent: Cobalt Analysis Run 4/11/2024 9:35 AM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWA-5I (bg)



n = 18

Slope = -0.00009177
units per year.

Mann-Kendall
statistic = -71
critical = -53

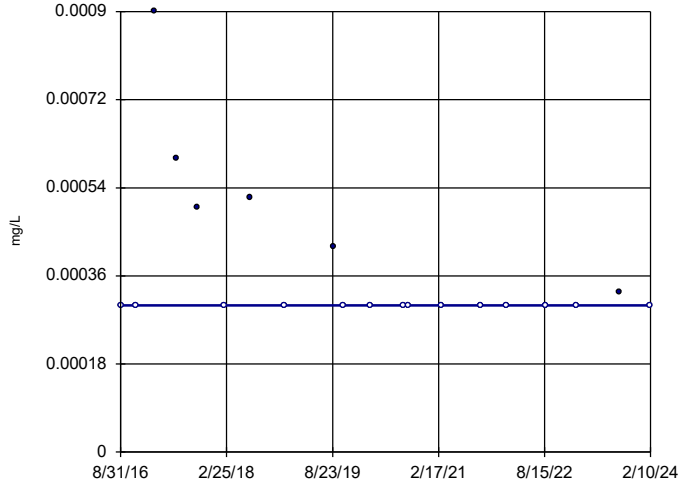
Decreasing trend
significant at 95%
confidence level
(α = 0.025 per
tail).

Constituent: Cobalt Analysis Run 4/11/2024 9:35 AM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-5S (bg)



n = 20

Slope = 0
units per year.

Mann-Kendall
statistic = -45
critical = -62

Trend not sig-
nificant at 95%
confidence level
(α = 0.025 per
tail).

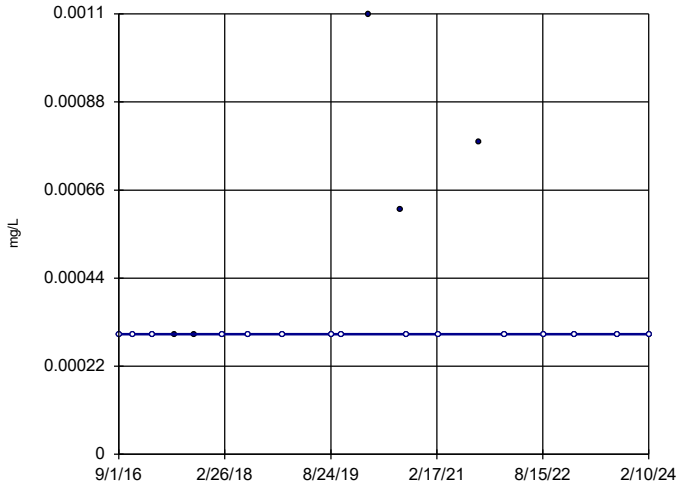
Constituent: Cobalt Analysis Run 4/11/2024 9:35 AM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-6S (bg)



n = 20

Slope = 0 units per year.

Mann-Kendall statistic = 12 critical = 62

Trend not significant at 95% confidence level (α = 0.025 per tail).

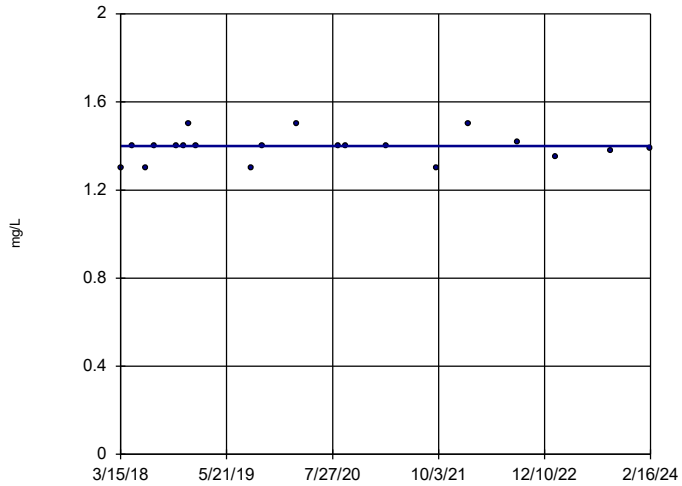
Constituent: Cobalt Analysis Run 4/11/2024 9:35 AM View: Pond BCD - Appendix IV Trend Tests

Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWC-50



n = 20

Slope = 0 units per year.

Mann-Kendall statistic = 9 critical = 62

Trend not significant at 95% confidence level (α = 0.025 per tail).

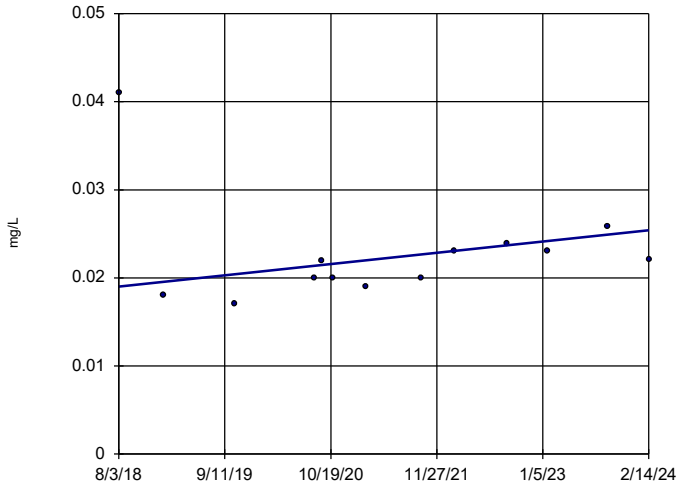
Constituent: Cobalt Analysis Run 4/11/2024 9:35 AM View: Pond BCD - Appendix IV Trend Tests

Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

PZ-51I



n = 13

Slope = 0.001153 units per year.

Mann-Kendall statistic = 29 critical = 34

Trend not significant at 95% confidence level (α = 0.025 per tail).

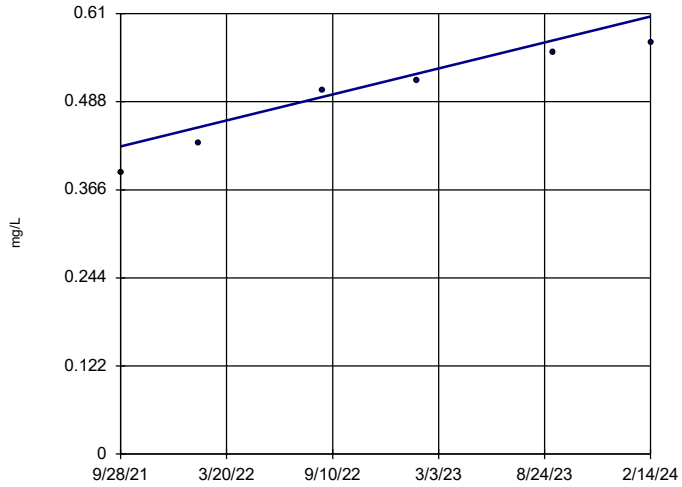
Constituent: Cobalt Analysis Run 4/11/2024 9:35 AM View: Pond BCD - Appendix IV Trend Tests

Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

PZ-58I



n = 6

Slope = 0.0756 units per year.

Mann-Kendall statistic = 15 critical = 12

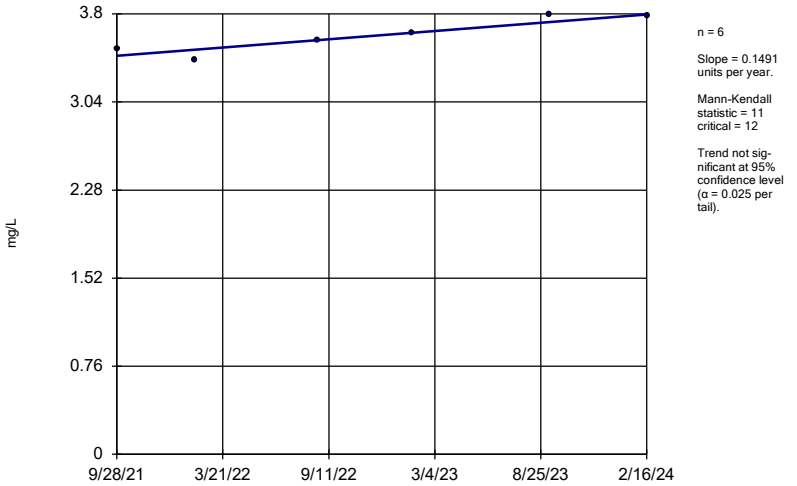
Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 4/11/2024 9:35 AM View: Pond BCD - Appendix IV Trend Tests

Plant Branch Data: Plant Branch AP

Sen's Slope Estimator

PZ-60I



n = 6

Slope = 0.1491 units per year.

Mann-Kendall statistic = 11
critical = 12

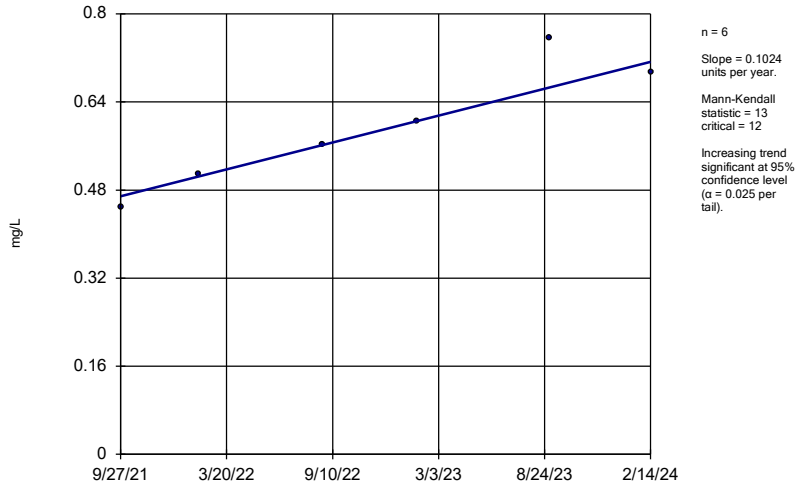
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 4/11/2024 9:35 AM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

PZ-61I



n = 6

Slope = 0.1024 units per year.

Mann-Kendall statistic = 13
critical = 12

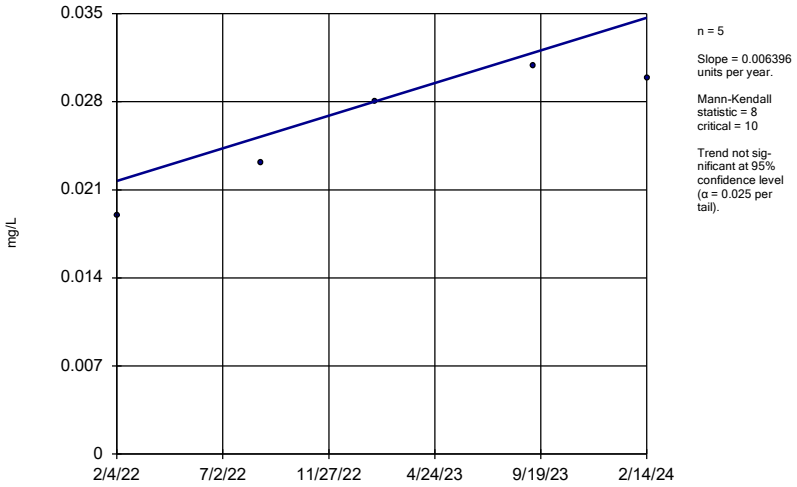
Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 4/11/2024 9:35 AM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

PZ-63I



n = 5

Slope = 0.006396 units per year.

Mann-Kendall statistic = 8
critical = 10

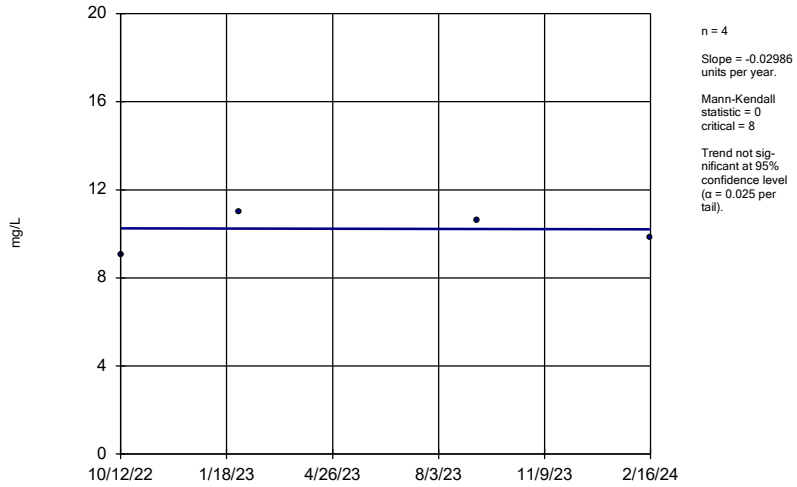
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 4/11/2024 9:35 AM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

PZ-64I



n = 4

Slope = -0.02986 units per year.

Mann-Kendall statistic = 0
critical = 8

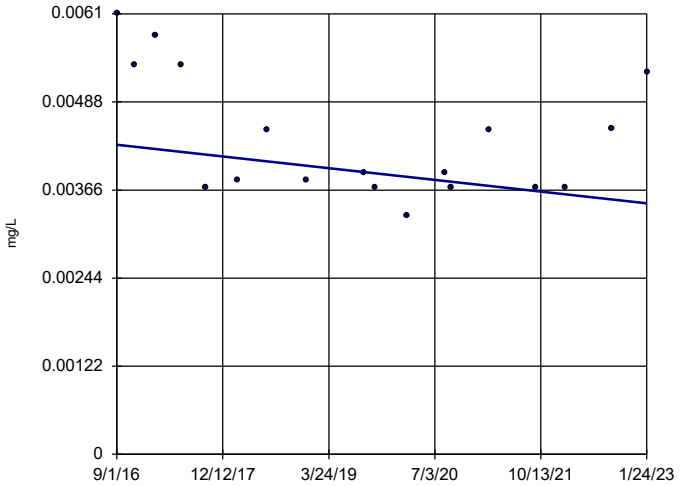
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 4/11/2024 9:35 AM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWA-12I (bg)



n = 18

Slope = -0.0001266 units per year.

Mann-Kendall statistic = -41 critical = -53

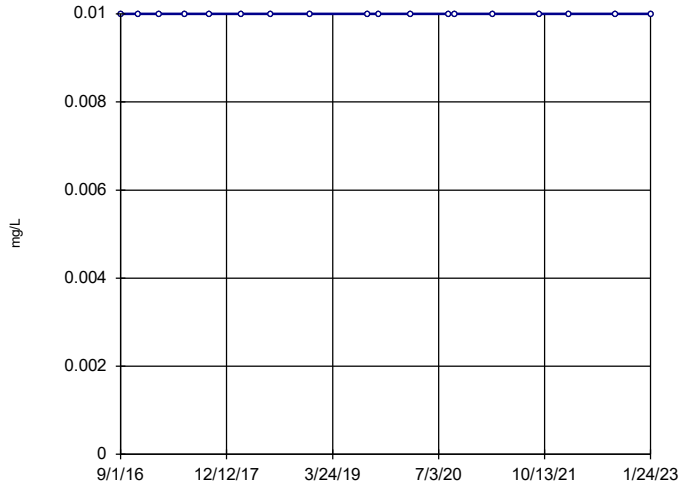
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 4/11/2024 9:35 AM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-12S (bg)



n = 18

Slope = 0 units per year.

Mann-Kendall statistic = 0 critical = 53

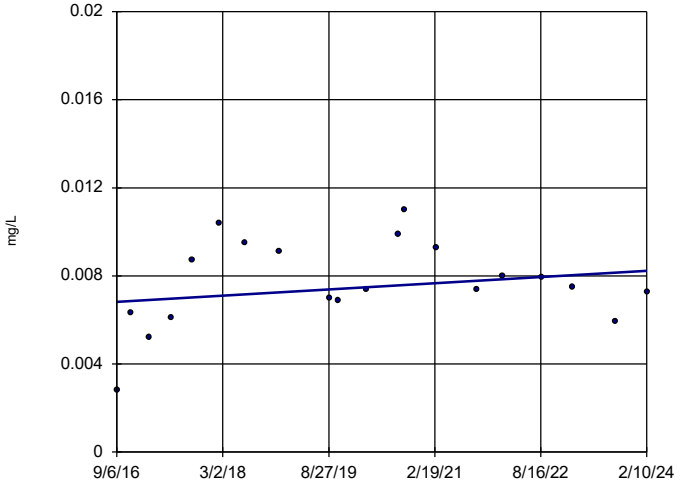
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 4/11/2024 9:35 AM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWA-23S (bg)



n = 20

Slope = 0.0001892 units per year.

Mann-Kendall statistic = 25 critical = 62

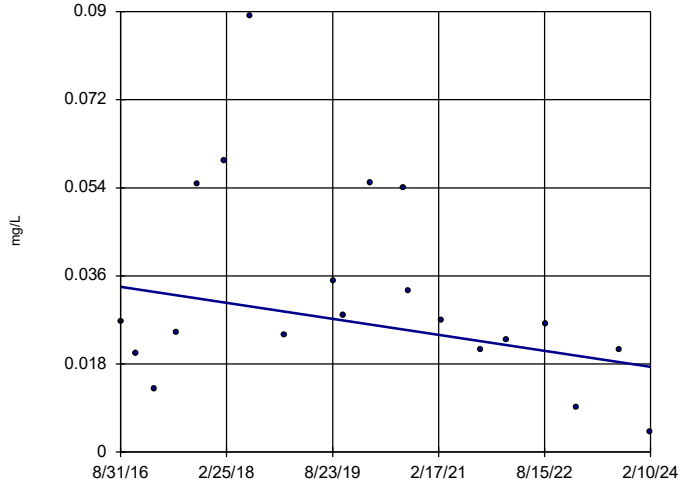
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 4/11/2024 9:35 AM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWA-2I (bg)



n = 20

Slope = -0.002191 units per year.

Mann-Kendall statistic = -52 critical = -62

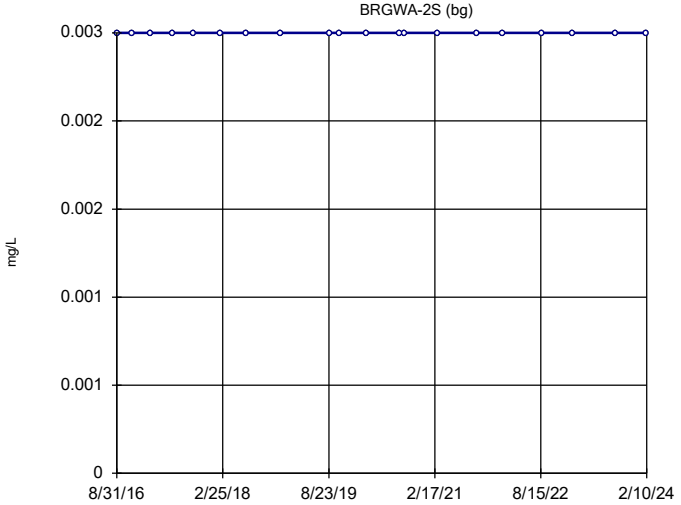
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 4/11/2024 9:35 AM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-2S (bg)



n = 20

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 62

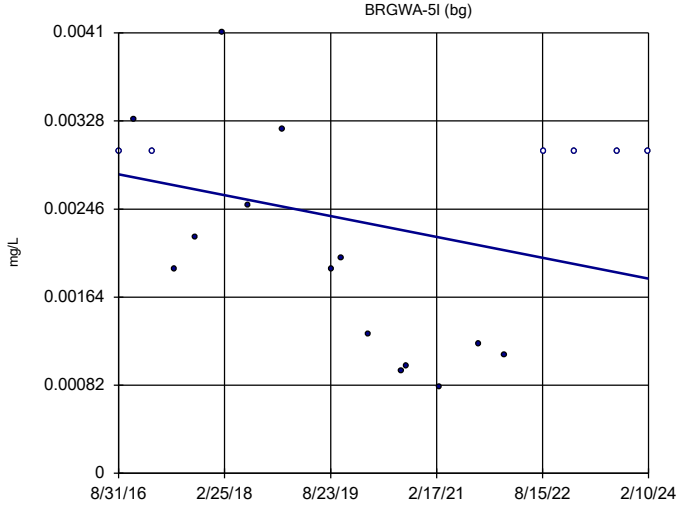
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 4/11/2024 9:35 AM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-5I (bg)



n = 20

Slope = -0.0001304 units per year.

Mann-Kendall statistic = -40
critical = -62

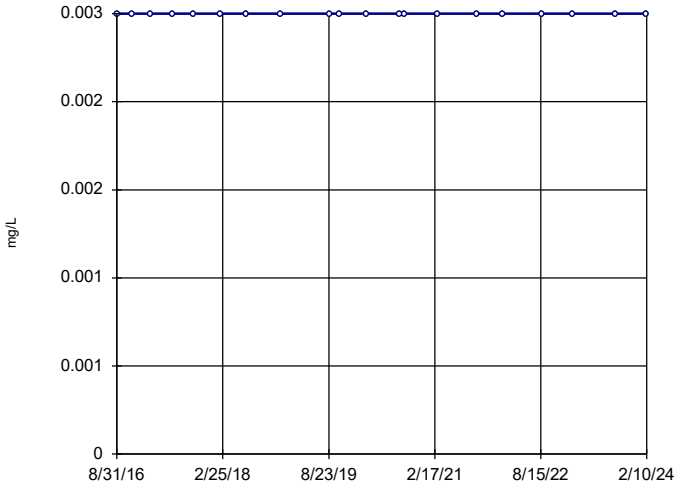
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 4/11/2024 9:35 AM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-5S (bg)



n = 20

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 62

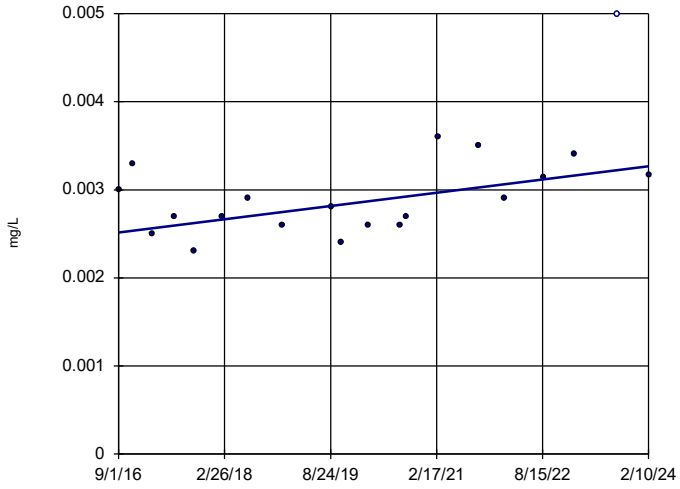
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 4/11/2024 9:35 AM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-6S (bg)



n = 20

Slope = 0.0001012 units per year.

Mann-Kendall statistic = 65
critical = 62

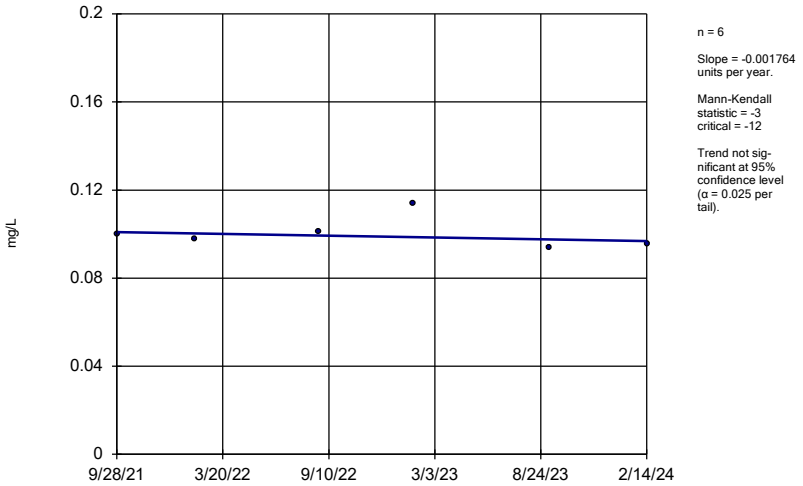
Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 4/11/2024 9:35 AM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

PZ-60I



n = 6

Slope = -0.001764 units per year.

Mann-Kendall statistic = -3 critical = -12

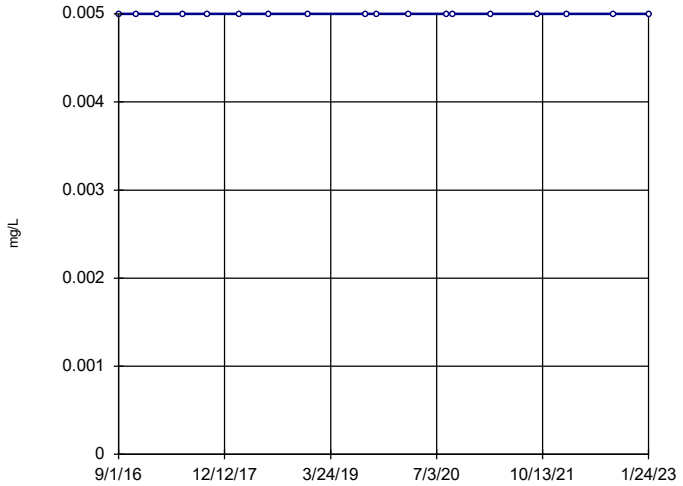
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 4/11/2024 9:35 AM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-12I (bg)



n = 18

Slope = 0 units per year.

Mann-Kendall statistic = 0 critical = 53

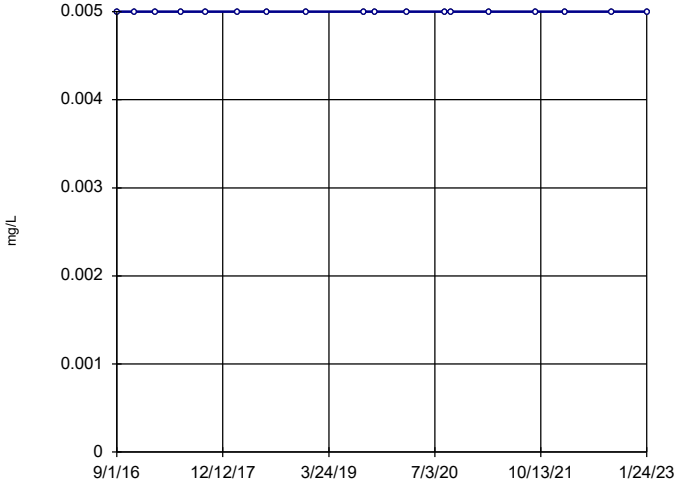
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Selenium Analysis Run 4/11/2024 9:35 AM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-12S (bg)



n = 18

Slope = 0 units per year.

Mann-Kendall statistic = 0 critical = 53

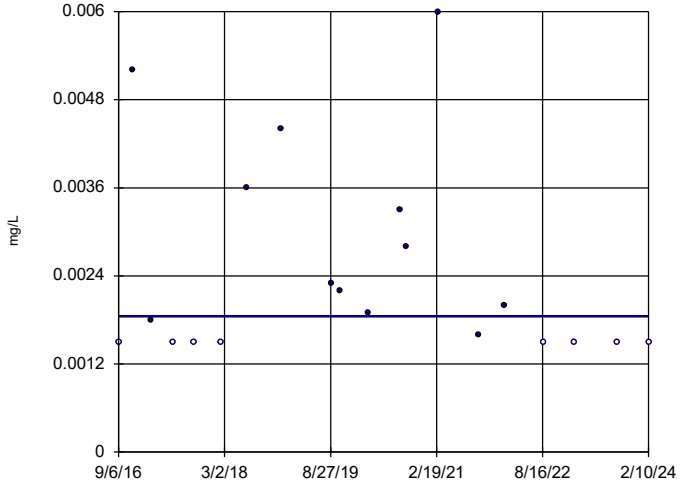
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Selenium Analysis Run 4/11/2024 9:35 AM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-23S (bg)



n = 20

Slope = 0 units per year.

Mann-Kendall statistic = -26 critical = -62

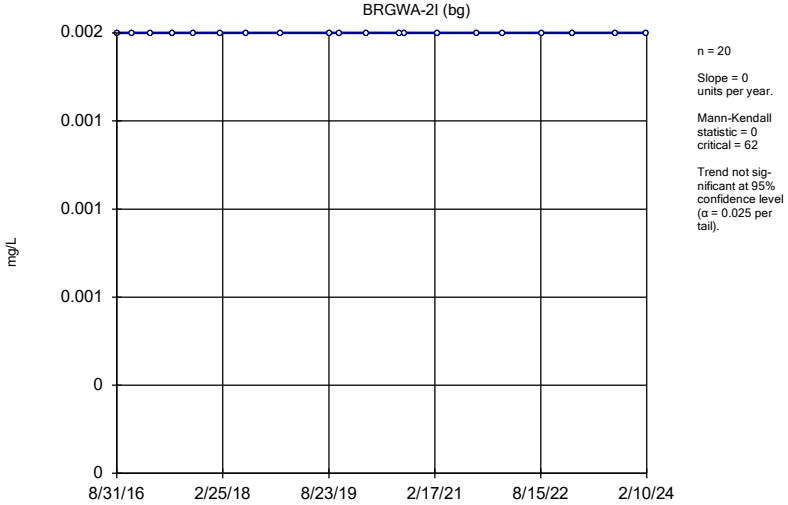
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Selenium Analysis Run 4/11/2024 9:35 AM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-2I (bg)



n = 20

Slope = 0
units per year.

Mann-Kendall
statistic = 0
critical = 62

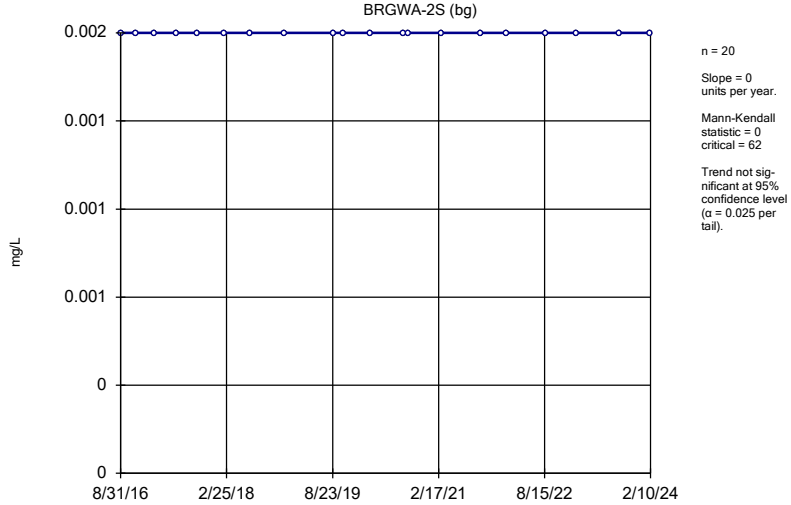
Trend not sig-
nificant at 95%
confidence level
(α = 0.025 per
tail).

Constituent: Selenium Analysis Run 4/11/2024 9:35 AM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-2S (bg)



n = 20

Slope = 0
units per year.

Mann-Kendall
statistic = 0
critical = 62

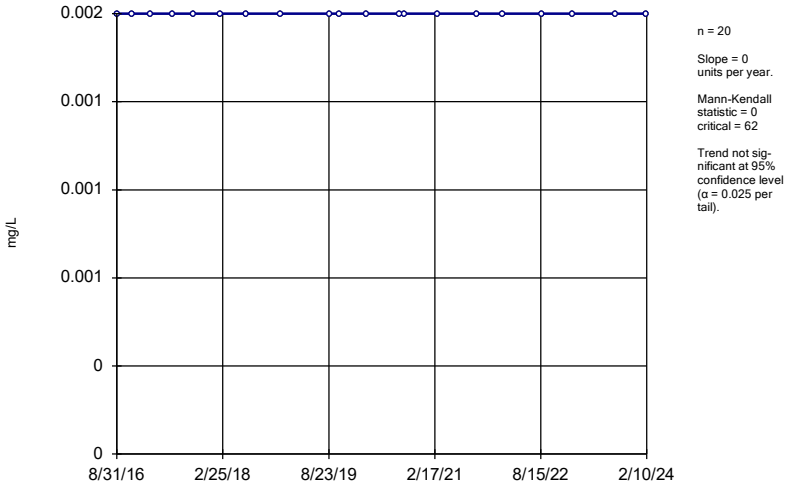
Trend not sig-
nificant at 95%
confidence level
(α = 0.025 per
tail).

Constituent: Selenium Analysis Run 4/11/2024 9:35 AM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-5I (bg)



n = 20

Slope = 0
units per year.

Mann-Kendall
statistic = 0
critical = 62

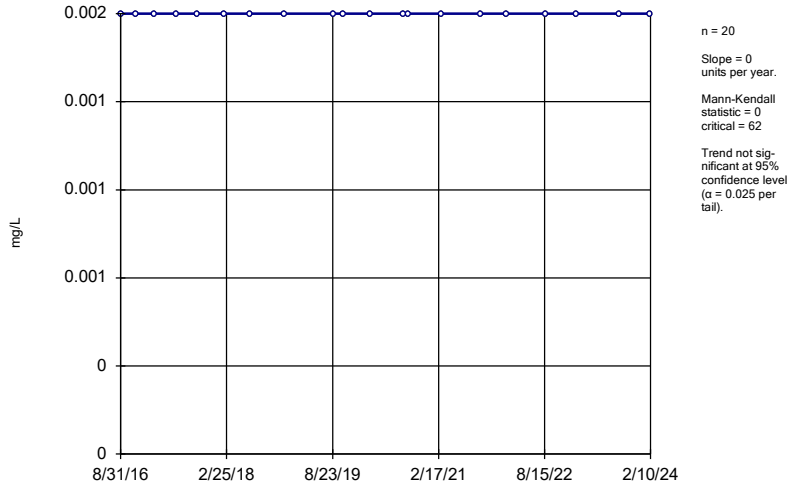
Trend not sig-
nificant at 95%
confidence level
(α = 0.025 per
tail).

Constituent: Selenium Analysis Run 4/11/2024 9:35 AM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-5S (bg)



n = 20

Slope = 0
units per year.

Mann-Kendall
statistic = 0
critical = 62

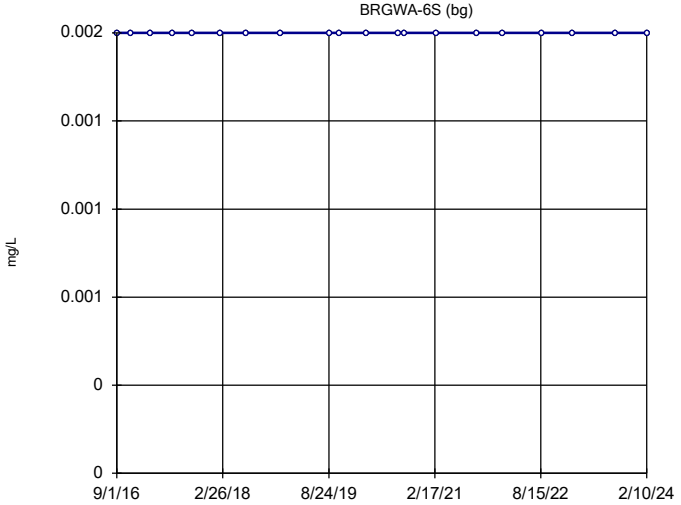
Trend not sig-
nificant at 95%
confidence level
(α = 0.025 per
tail).

Constituent: Selenium Analysis Run 4/11/2024 9:35 AM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-6S (bg)



n = 20

Slope = 0 units per year.

Mann-Kendall statistic = 0 critical = 62

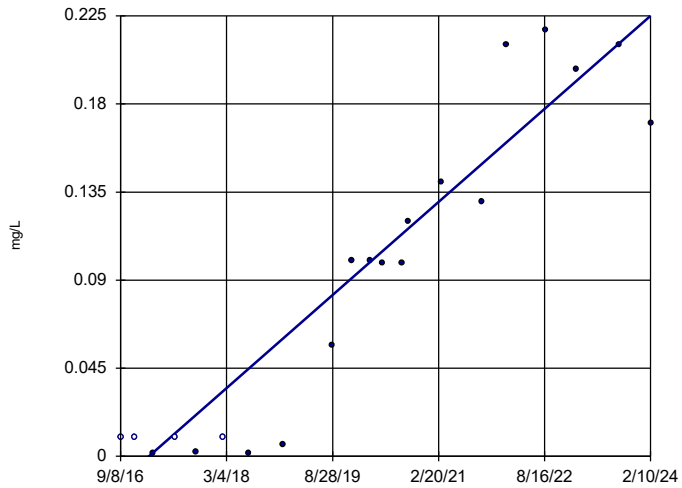
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Selenium Analysis Run 4/11/2024 9:35 AM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWC-32S



n = 21

Slope = 0.032 units per year.

Mann-Kendall statistic = 149 critical = 66

Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Selenium Analysis Run 4/11/2024 9:35 AM View: Pond BCD - Appendix IV Trend Tests
Plant Branch Data: Plant Branch AP

APPENDIX D

Alternate Source Demonstration – Beryllium, Cadmium, Cobalt, and Lithium – Plant Branch – Ash Pond

Prepared for

Georgia Power Company
241 Ralph McGill Blvd NE
Atlanta, Georgia 30308

ALTERNATE SOURCE DEMONSTRATION BERYLLIUM, CADMIUM, COBALT, AND LITHIUM

PLANT BRANCH – ASH POND B (AP-B)

Prepared by

engineers | scientists | innovators

1255 Roberts Boulevard, Suite 200
Kennesaw, Georgia 30144

Project Number GW8862

July 2024

ALTERNATE SOURCE DEMONSTRATION – BERYLLIUM, CADMIUM, COBALT, AND LITHIUM

Plant Branch
Ash Pond B (AP-B)

July 5, 2024

Joseph Ivanowski, P.G.
Senior Geologist

Lauren Fitzgerald, P.E.
Senior Engineer

Certification Statement

Alternate Source Demonstration – Beryllium, Cadmium, Cobalt, and Lithium
Plant Branch
Ash Pond B
July 5, 2024

This *Alternate Source Demonstration – Beryllium, Cadmium, Cobalt, and Lithium, Plant Branch Ash Pond B (AP-B)* has been prepared in compliance with the United States Environmental Protection Agency Coal Combustion Residual Rule [40 Code of Federal Regulations 257 Subpart D], specifically 257.95(g)(3)(ii), and the Georgia Environmental Protection Division Rules for Solid Waste Management 391-3-4-.10(6), by a qualified groundwater scientist or engineer with Geosyntec Consultants, Inc. I hereby certify that I am a qualified groundwater scientist, in accordance with the Georgia Rules of Solid Waste Management, and 40 CFR Part 258.50(g).

July 5, 2024

Lauren E. Fitzgerald
Georgia Professional Engineer, No. 048960

Date

Geosyntec
consultants

TABLE OF CONTENTS

1. INTRODUCTION 1
   - 1.1 Purpose 1
   - 1.2 Alternate Source Demonstration Updates Pursuant to Request from GA EPD 2
   - 1.3 Summary of Alternate Source Demonstration 3
   - 1.4 Site Description 5
     - 1.4.1 Former Coal Pile Investigations 6
   - 1.5 Groundwater Monitoring and Basis of Statistically Significant Levels 7

2. ALTERNATE SOURCE DEMONSTRATION 9
   - 2.1 Former Coal Pile Investigations Indicate Release to Groundwater 10
   - 2.2 AP-B Interstitial Water Data and Hydraulic Gradients Inconsistent with Migration of CCR Impacts 11
     - 2.2.1 Concentrations of SSL and Appendix III Constituents in AP-B Interstitial Water Inconsistent with Concentrations Observed in the FCPA 11
     - 2.2.2 Concentration Gradients of SSL Constituents Not Observed from AP-B 13
     - 2.2.3 Hydraulic Gradients Inconsistent with AP-B Impacts Relative to the Former Coal Pile 13
   - 2.3 Geochemical Groundwater Data Consistent with a Former Coal Pile Signature 14
   - 2.4 Stable Isotopes of Sulfate Indicate a Pyrite Oxidation Signature in the FCPA 15

3. ALTERNATIVE MONITORING STRATEGY FOR AP-B 18

4. CONCLUSIONS 19

5. REFERENCES 21

LIST OF TABLES

Table 1 Summary of Groundwater Analytical Data
Table 2 Sequential Extraction Procedure Data Summary
Table 3 AP-B Interstitial Piezometer Data Summary
Table 4 pH and Specific Conductivity Data Summary

LIST OF FIGURES

Figure 1 Site Location Map
Figure 2 Monitoring Well Network Map
Figure 3a Temporal Evolution of the Former Coal Pile: 1960 – 1993
Figure 3b Temporal Evolution of the Former Coal Pile: 2013 – 2023
Figure 4 Estimated Aerial Extent of Coal
Figure 5 Summary of 2018 Resolute Groundwater Investigation
Figure 6 AP-BCD Boron Concentrations – 2023
Figure 7 Histogram Comparison of FCPA and AP-B
Figure 8 Iso-concentration Map – Beryllium, Cadmium, Cobalt, and Lithium – August 2023
Figure 9 Potentiometric Surface Contour Map – August 2023
Figure 10 AP-B and Former Coal Pile pH Map
Figure 11 pH Box Plots
Figure 12 AP-BCD Sulfate Concentrations – 2023
Figure 13 AP-B and Former Coal Pile Specific Conductivity Map
Figure 14 Stable Isotope Sampling Locations
Figure 15 Stable Isotopes of Sulfur and Oxygen

LIST OF APPENDICES

Appendix A Monitoring Well Construction Logs
Appendix B GA EPD HSRA Response
Appendix C Laboratory Reports
Appendix D Statistics Backup Files
Appendix E Isotope Assessment Results

LIST OF ACRONYMS

ACM	Assessment of Corrective Measures
AP-B	Ash Pond B
AP-BCD	Ash Ponds B, C, and D
ASD	Alternate Source Demonstration
CCR	Coal Combustion Residual
CFR	Code of Federal Regulations
DPT	direct push technology
FCPA	Former Coal Pile Area
GA EPD	Georgia Environmental Protection Division
Georgia Power	Georgia Power Company
GWPS	groundwater protection standard
HSRA	Hazardous Site Response Act
MCL	maximum contaminant level
µS/cm	microsiemens per centimeter
mg/L	milligrams per liter
NC	notification concentration
pCi/L	picocuries per liter
RQSM	Reportable Quantities Screening Method
SEP	sequential extraction procedure
SSI	statistically significant increase
SSL	statistically significant level
s.u.	standard units
USEPA	United States Environmental Protection Agency
USGS	United States Geological Survey

1. INTRODUCTION

1.1 Purpose

This document presents an alternate source demonstration (ASD) for the statistically significant levels (SSL) of beryllium, cadmium, cobalt, and lithium above applicable groundwater protection standards (GWPS) detected in select monitoring wells located at Georgia Power Company (Georgia Power) Plant Branch (Site) Ash Ponds B, C, and D (AP-BCD). AP-BCD is a multiunit impoundment reported as a single unit under the Coal Combustion Residuals (CCR) Rule. However, based on groundwater flow directions, the monitoring wells demonstrating SSLs are located side-gradient to Ash Pond B (AP-B) specifically and downgradient of a former coal pile, situated adjacent to AP-B (**Figure 1**). Therefore, this document will primarily focus on evaluating AP-B rather than the larger multiunit AP-BCD. This ASD, through a thorough characterization of groundwater and aquifer solids data, provides a series of compelling lines of evidence demonstrating that the source of the observed SSLs is the former coal pile (removed in 2017), an alternate source from AP-B. The area including these SSL wells will be referred to herein as the Former Coal Pile Area (FCPA) (**Figure 2**).

Statistical analysis of the 2023 groundwater quality monitoring data identified the following SSLs of Appendix IV constituents at concentrations exceeding the applicable GWPS in FCPA monitoring wells[1]:

- Beryllium (GWPS of 0.004 milligrams per liter [mg/L]): PZ-58I and PZ-60I
- Cadmium (GWPS of 0.005 mg/L): BRGWC-50 and PZ-60I
- Cobalt (GWPS of 0.014 mg/L): BRGWC-50, PZ-51I, PZ-58I, PZ-60I, and PZ-61I
- Lithium (GWPS of 0.089 mg/L): PZ-60I

Preliminary statistics indicate additional SSLs of cobalt are expected to be identified at PZ-63I and PZ-64I in the *2024 Annual Groundwater Monitoring and Corrective Action*

[1] In accordance with the United States Environmental Protection Agency (USEPA) Coal Combustion Residual Rule (federal CCR Rule) (40 Code of Federal Regulations [CFR] Part 257, Subpart D) and the Georgia Environmental Protection Division (GA EPD) Rules for Solid Waste Management 391-3-4-.10, a statistically significant level (SSL)-related constituent is determined by comparing the confidence intervals developed to either the constituent's Maximum Contaminant Level (MCL), if available; where an MCL has not been established, then a CCR-rule specific GWPS; or background concentrations for constituents where the concentration is greater than the MCL or rule specified GWPS.

Report that will be submitted in July 2024. The conclusions of this ASD will be applicable to these SSLs of cobalt once they are reported.

The purpose of this ASD is to provide an overview of the groundwater and aquifer solids characterization data in the vicinity of the FCPA to show that the source of SSL constituents observed in this area is the former coal pile and not AP-B. This ASD has been prepared pursuant to regulations in Title 40 Code of Federal Regulations (CFR) Part 257 Subpart D [the CCR Rule], specifically § 257.95(g)(3)(ii), which allows the owner or operator to "demonstrate that a source other than the CCR unit caused the contamination, or that the statistically significant increase resulted from error in sampling, analysis, statistical evaluation, or natural variation in groundwater quality." Moreover, this ASD also serves as an ASD under the Georgia regulations per Rule 391-3-4-.10(6) of the Georgia Administrative Code, which incorporates § 257.95(g)(3)(ii) of the CCR Rule by reference. For ease of reference herein, the CCR Rule regulations are cited within this report, in lieu of citing both sets of regulations.

1.2 Alternate Source Demonstration Updates Pursuant to Request from GA EPD

An ASD report was submitted to GA EPD on February 28, 2024 (GEOS submittal ID 810150). Following a review of the ASD report in April 2024, GA EPD requested additional data to supplement the initial submission. The following revisions or updates were made to the initial ASD report and are presented in this revised ASD report:

1. Revision of the June 2023 analytical laboratory report and **Table 3** to include beryllium and cadmium data for the AP-B interstitial wells (IW-B-3, IW-B-4, and IW-B-5);

2. Development of figures illustrating pH and specific conductivity iso-concentration contours, incorporating data through February 2024 for AP-B and the FCPA, and summary table of the data used to generate the contours; and

3. Completion of additional sulfate isotopic analysis in BRGWC-27I and BRGWC-32S that is included in a revised **Appendix E** and on associated ASD figures.

A complete overview summarizing the lines of evidence utilized to support this ASD is provided in Section 1.3. Individual lines of evidence are discussed in more detail in Section 2.

1.3 Summary of Alternate Source Demonstration

Based on review of Site information, the SSLs of beryllium, cadmium, cobalt, and lithium identified in the detection and assessment monitoring wells in the FCPA do not originate from a CCR source and are not associated with a release from AP-B. Instead, the SSLs are attributed to (i) migration of low pH contact water generated by infiltration of water through the former coal pile containing dissolved trace elements from the particulate coal and (ii) low pH groundwater conditions caused by and downgradient of the former coal pile facilitating mobilization of trace elements naturally occurring in the aquifer solids. The following lines of evidence support the conclusion that the SSLs of beryllium, cadmium, cobalt, and lithium in groundwater at the Site are due to infiltration and leaching of water through the former coal pile:

- Former Coal Pile Investigation:
    - Coal is a natural resource consisting of several minerals that are commonly enriched in trace elements including arsenic, beryllium, cadmium, cobalt, and lithium (Cook and Fritz, 2002; USGS, 2006; USEPA, 1978; Xie, et.al., 2023; Ward et. al., 2011; Harkness et.al., 2015). In addition, coal can contain various amounts of sulfide minerals that can undergo oxidation processes due to open storage of coal in piles. Oxidation of these minerals can occur in coal pile storage areas due to the infiltration of precipitation and use of dust suppression processes that introduce oxygenated water through the coal pile. This oxidation process can result in the potential release of trace elements and a decreased pH in coal contact water, which can further facilitate the dissolution of trace elements (either from coal or the downgradient aquifer matrix). This can, in certain circumstances and geochemical conditions, cause impacts to downgradient groundwater (Cook and Fritz, 2002; Cravotta, 2008; Gammons, 2010). These processes are believed to have occurred at the Plant Branch former coal pile and have led to low pH in groundwater and exceedances of major and trace elements along the flow path of former coal pile contact water.
    - In 2018, a Site investigation completed within and east of the former coal pile as part of Plant Branch decommissioning efforts identified arsenic and cadmium in groundwater at elevated concentrations (above the Hazardous

Site Response Act [HSRA] notification concentrations [NC]) and attributed the former coal pile as the source for these constituents in groundwater. (GPC, 2018).

- AP-B Interstitial Water Versus FCPA Groundwater:

    - The concentration and distribution of SSL constituents in interstitial water samples indicates that interstitial water is not the source of these constituents observed in groundwater wells in the FCPA. For example, beryllium, cadmium, and cobalt are non-detect or detected at trace levels below the GWPS in recent piezometers (IW-B-3, IW-B-4, and IW-B-5) installed within the CCR in AP-B.

    - A gradient of high to low groundwater concentrations of SSL constituents should be observed to emanate from the source and migrate with groundwater flow downgradient. Groundwater flow from AP-B is generally toward Lake Sinclair and side-gradient of the FCPA. SSL constituent groundwater concentrations observed in the FCPA are higher than those observed in and downgradient of AP-B (with the highest concentrations in FCPA piezometers observed at the greatest distance from AP-B), which confirms the lack of groundwater concentration gradient for SSL constituents from AP-B to the FCPA wells.

    - Boron, an Appendix III constituent, is known to be a leading indicator of impacts from CCR and is commonly used as a tracer to identify the leading edge and direction of migration of CCR impacted groundwater. Boron concentrations are observed to be the lowest in the FCPA relative to other locations downgradient of AP-BCD. In addition, statistical evidence (evaluated by histogram development) confirms different groundwater signatures in the FCPA relative to within and downgradient of AP-B.

    - A refined flow regime analysis within the FCPA and areas downgradient of AP-B suggests that the observed exceedances of SSL constituents are east of AP-B and predominantly hydraulically downgradient of and the result of impacts from the former coal pile.

- Groundwater Geochemistry:

    - The geochemical signature of groundwater in the FCPA wells reflects low boron, low pH, high sulfate, and high conductivity whereas the geochemical signature of groundwater in other areas of AP-B and other ash ponds at Plant Branch is different, reflecting higher boron, near-neutral pH, and low sulfate and conductivity concentrations.

    - Stable oxygen and sulfur isotopes of sulfate ions in groundwater indicate that the source of sulfate in the FCPA is from pyrite oxidation of coal rather than pyrite combustion (i.e., sulfate released from coal ash). This confirms the impacts in the FCPA are the result of the former coal pile as opposed to AP-B.

1.4 Site Description

Plant Branch formerly operated as a coal-fired power plant that commenced power generation in 1965 and ceased in 2015. During operations, surface impoundments were utilized for the storage of CCR, including AP-BCD. AP-BCD is located on the southeast corner of the Plant (**Figure 1**) and, while three distinct impoundments, is regulated as a single unit under the CCR Rule. AP-BCD is not active and will be closed by removal of CCR, which will be placed in a new, permitted, on-Site CCR landfill.

AP-B is an approximate 52-acre ash pond on the east side of the regulated multiunit. The majority of the surface in AP-B (approximately 75 to 80%) is dry and vegetated with grass, brush, and medium pines. These areas are easily accessible by vehicle and by foot, with some portions capped with up to 3 feet of soil (non-CCR). A small portion of the pond is still used for stormwater management, with 5 to 10 acres being wet, depending on seasonal rainfall conditions.

In addition to CCR surface impoundments, a coal storage unit operated at Plant Branch, which bordered the northeastern portion of AP-B along its entire length (**Figures 2**, **3a**, and **3b**). A historical evolution of the former coal pile during Plant operations and following decommissioning is presented in **Figures 3a** and **3b**. The first aerial photograph on **Figure 3a** shows the Site in 1960 before the Plant and former coal pile were constructed. In early 1965, the former coal pile began receiving coal in preparation for electricity generation. The aerial photograph from November 11, 1965, shows the former coal pile within the first year of Plant operations. As shown on the time progression of

aerial figures presented on **Figures 3a** and **3b**, the former coal pile expanded into an additional area northwest of the original footprint. This expanded area was constructed in 2012.

Former coal pile decommissioning was commenced by Southern Company in 2014, and the four coal-fired units at Plant Branch were retired the following year (GPC, 2018). Subsequently, the former coal pile was removed. **Figure 3b** shows that the majority of coal was removed by October 15, 2015, with complete coal removal by 2017.

The current condition of the former coal pile area is shown in the most recent aerial photograph in **Figure 3b**. Beginning in 2018, the expanded portion of the former coal pile area was retrofitted for activities including construction of a water treatment plant to support the ash pond closure activities. In 2023, a layer of lime (for geotechnical stabilization of the soil) and 12 inches of crushed stone was installed along the remaining portion of the original footprint of the former coal pile to complete restoration of the decommissioned former coal pile. This area is currently used for staging and storage of rock aggregate for onsite CCR landfill construction activities.

1.4.1 Former Coal Pile Investigations

Prior to decommissioning, a field investigation was completed to evaluate the approximate extent of coal in the former coal pile, and the findings are presented in **Figure 4**. Boring logs from these field investigation activities are provided in **Appendix A**. Based on approximately 17 borings, the former coal pile thickness ranged from 1 to 35 feet. The thickest locations of coal were observed on the eastern side, closest to Plant operations. In the southern portion, closest to the FCPA, coal thickness ranged from approximately 3 to 5 feet. During the investigation, the water table was observed above the bottom of the coal, indicating contact between the former coal pile and the water table and notably, an elevated hydraulic head beneath the former coal pile. These locations were noted in borings obtained from areas within the former coal pile that were closest to the former Plant operations.

In February 2018, as part of the decommissioning of the Plant, Resolute Environmental & Water Resources Consulting, LLC (Resolute) completed a direct push technology (DPT) investigation for pH and conductivity and collected limited groundwater samples in the vicinity of the former coal pile. The locations and results are presented in **Figure 5**. Groundwater was sampled from two installed groundwater monitoring wells (C1-06 and C2-02). C1-06 contained concentrations of arsenic and cadmium exceeding their

applicable HSRA NCs. On March 16, 2018, a HSRA Release Notification was submitted to Georgia Environmental Protection Division (GA EPD) to document that the groundwater in this well contained elevated concentrations of arsenic (0.013 mg/L; NC of 0.010 mg/L) and cadmium (0.0108 mg/L; NC of 0.005 mg/L). On November 15, 2018, GA EPD prepared an inspection report, recommendation memorandum, and Reportable Quantities Screening Method (RQSM) score sheet. This report indicated the presence of a known detection of arsenic and cadmium in groundwater. The groundwater pathway was scored at 8.1 on the RQSM score sheet, which did not exceed the threshold of 10. In addition, the Site was scored for an on-Site exposure of arsenic detected in soils. This pathway was scored at a 0, which did not exceed the threshold of 20. Based on this information, on November 16, 2018, GA EPD determined that the property would not be listed on the Hazardous Site Inventory (GPC, 2018; GA EPD, 2018). The response from GA EPD is provided in **Appendix B**.

1.5 Groundwater Monitoring and Basis of Statistically Significant Levels

The monitoring well network was installed with a conservative approach assuming radial to semi-radial flow from AP-BCD and therefore, included side-gradient areas located adjacent to and downgradient of the former coal pile. Pursuant to § 257.94(e)(3), an assessment monitoring program was initiated for AP-BCD based on statically significant increases (SSI) of Appendix III constituents documented in the *2019 Annual Groundwater Monitoring and Corrective Action Report* (Golder, 2019). Statistical analyses of the Appendix IV assessment monitoring groundwater data collected in March 2020 identified SSLs for cobalt and cadmium at concentrations exceeding applicable GWPS. The SSLs of beryllium and lithium were identified following statistical analysis of the January 2023 and August 2023 groundwater data, respectively.

Pursuant to § 257.96, Georgia Power initiated an assessment of corrective measures (ACM) program for AP-BCD on July 9, 2020, and subsequently submitted the *Assessment of Corrective Measures Ash Pond BCD* (ACM Report) (Golder, 2020) on December 4, 2020. Subsequent groundwater characterization activities have been performed for the individual ash ponds resulting in a refined understanding of AP-BCD potential impacts and flow paths.

Since the ACM was initiated, additional assessment monitoring wells and piezometers have been installed to define groundwater flow direction and gradients as well as delineate the horizontal and vertical extents of the beryllium, cadmium, cobalt, and lithium SSLs in the FCPA. Further, three piezometers (IW-B-3 through IW-B-5) were

installed in 2023 within the footprint of AP-B to provide additional information on the geochemical characteristics of AP-B interstitial water. These new piezometers screened within the CCR in AP-B supplemented the two existing interstitial piezometers installed in the northern and southern portions of AP-B. The current groundwater monitoring well and piezometer networks installed downgradient/side-gradient of AP-B, and the network of AP-B interstitial piezometers, are shown on **Figure 2**. Construction logs for monitoring wells and piezometers are provided in **Appendix A**.

In addition to the Appendix IV constituents identified as SSLs, GWPS exceedances of other Appendix IV constituents were observed during a comprehensive sampling event completed in February 2023 for all monitoring wells and piezometers in the FCPA. While not SSLs, arsenic (up to 0.02 mg/L), selenium (up to 0.1 mg/L), and combined radium (up to 8 picocuries per liter [pCi/L]) exceedances have been noted in the FCPA. The observed constituents occur naturally in coal.

The analytical data obtained from the additional wells and piezometers installed in the FCPA and within the footprint of AP-B along with the supplemental analytical analyses in the FCPA suggest that the identified SSLs are not associated with groundwater flow from AP-B. To support this observation, characterization of the aquifer solids, geochemical and statistical evaluations of the analytical data, and collection of stable isotope data were completed. Compilation of these various lines of evidence (see further discussion in Section 2) support the conclusion that the SSLs of beryllium, cadmium, cobalt, and lithium (and other elevated concentrations of trace elements identified in the FCPA) observed in the vicinity of AP-B are due to impacts from the former coal pile and are not associated with CCR in AP-B.

2. ALTERNATE SOURCE DEMONSTRATION

Based on review of Site information, the SSLs of beryllium, cadmium, cobalt, and lithium identified in monitoring wells BRGWC-50, PZ-51I, PZ-58I, PZ-60I, and PZ-61I are not associated with a release from AP-B. Instead, these SSLs are attributed to historical infiltration of water through the former coal pile and into the underlying groundwater. This section documents the following lines of evidence to support this conclusion:

- Former Coal Pile Investigations
    - Low pH conditions (3.68 to 5.7 standard units [s.u.] in monitoring wells and piezometers screened in the impacted zone in 2023) and elevated trace element concentrations are observed in the FCPA wells suggesting that the impacts are from former coal pile contact water as opposed to originating from CCR stored in AP-B (pH 5.8 to 8.4 s.u. in 2023).
    - In 2018, a Site investigation completed as part of the Plant decommissioning identified the former coal pile as the source of arsenic and cadmium in groundwater and notified GA EPD of a release under the HSRA.
- Groundwater analytical data in the FCPA are not consistent with AP-B interstitial water results based on the following: (i) the analytical characterization of the AP-B interstitial water samples compared to FCPA groundwater; (ii) histogram development for SSL constituents and select Appendix III constituents (CCR tracers); and (iii) an evaluation of concentrations gradients and the groundwater flow regime.
- Groundwater geochemistry and analytical results observed in the FCPA are not consistent with a CCR signature.
- Stable isotopes of sulfate are indicative of sulfate generation from pyrite oxidation from coal as opposed to a combustion signature that would be indicative of sulfate generation from ash.

The subsections below provide additional information on each of these lines of evidence. Laboratory reports for data supporting these lines of evidence are provided in **Appendix C**. As indicated above, preliminary statistics indicate the identification of two

additional cobalt SSLs in PZ-63I and PZ-64I. The lines of evidence supporting this ASD will be applicable to those SSLs once reported in the *2024 Annual Groundwater Monitoring and Corrective Action Report* that will be submitted in July 2024.

2.1 Former Coal Pile Investigations Indicate Release to Groundwater

Coal is a natural material consisting of several minerals that are commonly enriched in trace elements including arsenic, beryllium, cadmium, cobalt, and lithium (Cook and Fritz, 2002; USGS, 2006; USEPA, 1978; Xie, et. al., 2023; Ward et. al., 2011; Harkness et.al., 2015). In addition, depending on the source, coal may contain varying quantities of sulfide minerals that can undergo oxidation processes due to open storage of coal in piles. Under certain conditions, oxidation of these minerals may occur in coal pile storage areas due to the infiltration of precipitation and use of dust suppression processes that introduce oxygenated water through the coal pile. This oxidation process can release metalloids and trace elements and can cause the pH of water in contact with coal to decrease to conditions below approximately 5 – 5.5 s.u. This creates unique geochemical conditions, specifically low pH, that can facilitate further dissolution of trace elements (either from coal or naturally occurring elements precipitated with iron and manganese oxides of an aquifer matrix) that can migrate to groundwater (Cook and Fritz, 2002).

Consideration of these characteristics of former coal pile contact water results in two main mechanisms of impacts from the former coal pile at Plant Branch to groundwater: (i) migration of low pH water generated by infiltration of water through the former coal pile causing oxidation of sulfide minerals and dissolution of trace elements associated with coal; and (ii) low pH groundwater conditions downgradient of the former coal pile further facilitating mobilization of trace elements naturally occurring in the aquifer solids.

In the FCPA, exceedances of trace elements from coal including SSL constituents along with low pH conditions support migration of former coal pile contact water into the FCPA monitoring wells and piezometers (**Table 1**). Mobilization of these SSL constituents in the FCPA could also be due to dissolution of naturally occurring iron- and/or manganese-bearing minerals in the aquifer solids as a result of these unique geochemical conditions, specifically low pH. This is supported by high concentrations of dissolved iron and manganese observed in FCPA wells with SSLs (**Table 1**) and the Sequential Extraction Procedure (SEP) data (**Table 2**), suggesting substantial levels of the SSL constituents were associated with solid phase metal oxides in both upgradient and FCPA locations.

In addition, in 2018, a Site investigation was completed within the footprint of the former coal pile as part of Plant Branch decommissioning efforts that confirmed impacts of trace elements and low pH from the former coal pile to groundwater primarily on the eastern side of the former coal pile (not adjacent to AP-B) (see further discussion in Section 1.3.3). As part of this effort, groundwater was collected from various DPT locations for pH and conductivity and two newly installed monitoring wells (C1-06 and C2-02). Water quality observations indicated low pH conditions in numerous locations around the former coal pile (as low as 3.5 s.u.; **Figure 5**). Further, the findings of this investigation identified arsenic and cadmium in groundwater above the HSRA NC and CCR GWPS, confirming a release of trace elements that are also identified as Appendix IV CCR constituents from the former coal pile to groundwater (GPC, 2018). While these groundwater conditions did not result in the Site being placed on the HSRA Site Inventory (GA EPD, 2018), it did show impacts from former coal pile contact water to groundwater supporting an alternate source of Appendix IV CCR constituents to groundwater other than AP-B.

2.2 AP-B Interstitial Water Data and Hydraulic Gradients Inconsistent with Migration of CCR Impacts

This section presents an evaluation and comparison of select Appendix III and SSL constituent analytical data collected from piezometers screened in the CCR material of AP-B relative to FCPA monitoring well data. It illustrates that groundwater concentrations in the FCPA are not consistent with the groundwater characteristics of interstitial water in AP-B. Histogram development for SSL constituents and select Appendix III constituents in the two spatial areas support this conclusion. Finally, a refined evaluation of the hydraulic gradient and flow regime proximal to AP-B and the FCPA shows that locations with the highest SSL constituent concentrations are primarily hydraulically downgradient of the former coal pile and side-gradient to AP-B.

2.2.1 Concentrations of SSL and Appendix III Constituents in AP-B Interstitial Water Inconsistent with Concentrations Observed in the FCPA

AP-B interstitial water samples were collected from the various piezometers screened within the CCR material of AP-B between 2019 and 2023 and analyzed for Appendix III and select Appendix IV constituents[2] (**Table 3**). The concentrations and spatial

[2] The samples were not analyzed for beryllium or lithium in 2023 as a beryllium and lithium SSL was not yet identified.

distribution of Appendix III constituents, beryllium, cadmium, cobalt, and lithium in AP-B interstitial water are inconsistent with groundwater impacts observed in the FCPA.

Beryllium, cadmium, and cobalt concentrations were either non-detect or detected at trace levels below the GWPS in interstitial water from the AP-B piezometers. This is in contrast to the concentrations of these SSL constituents, which exceed the GWPS in the wells and piezometers in the FCPA (**Table 1**), suggesting that AP-B interstitial water is not the source of the SSLs observed in the FCPA. Only one sample was collected from an interstitial piezometer and measured for lithium (IW-B-2 in October 2019). The lithium detection was observed to be above the GWPS, however, as discussed below, a gradient of lithium concentration from AP-B to the FCPA is not observed and therefore, this data does not support AP-B as the source of SSL constituents in the FCPA.

Boron is an Appendix III constituent commonly used as a tracer to indicate impacts to groundwater downgradient of a CCR unit, including the leading edge and direction of impact migration. The spatial distribution of boron concentrations in the vicinity of AP-B and across AP-BCD (inset only) is provided on **Figure 6**. These data indicate boron concentrations in groundwater are lowest in the FCPA (typically <0.5 mg/L) relative to locations within and downgradient of AP-BCD (typically >1 mg/L). The wells with the highest concentrations of SSL constituents correspond with boron concentrations below 0.5 mg/L. In nearby locations where SSL constituents are non-detect (BRGWC-52I and PZ-44), boron concentrations are 1.87 mg/L and 1.35 mg/L, respectively. These data indicate (i) little or no impacts from AP-B in the FCPA and (ii) clearly differentiate two sources of boron, suggesting that boron concentrations in the FCPA wells reflect groundwater from the former coal pile.

To visually assess similarities and differences in the analytical data, histograms were developed for select Appendix III and SSL constituents from monitoring wells and piezometers in the FCPA relative to the AP-B area (BRGWC-25I, BRGWC-52I, along with the five interstitial wells within AP-B). The results of this evaluation are presented in **Figure 7**. Review of the histograms indicates the difference in concentrations of the evaluated constituents between the wells and piezometers in the FCPA grouping and AP-B wells. The FCPA is characterized by low boron and pH along with high concentrations of sulfate and the SSL constituents, which is opposite of what is observed in the AP-B wells, confirming sources of these constituents are likely not the same in the two areas.

2.2.2 Concentration Gradients of SSL Constituents Not Observed from AP-B

To further evaluate the influence of the former coal pile on beryllium, cadmium, cobalt, and lithium groundwater concentrations in the FCPA, a spatial evaluation of concentration gradients for these constituents was completed through the generation of iso-concentration contours (**Figure 8**; data provided in **Table 1**). This figure illustrates that concentrations are highest directly downgradient of the former coal pile without a gradient of high to low concentrations from AP-B toward the FCPA. If impacts were from AP-B, a high to low concentration gradient would be expected. Specifically, PZ-58I which is closer to AP-B has lower concentrations of the four SSL constituents relative to PZ-60I, which is further away from AP-B. In fact, the highest concentration of cobalt is observed in the location furthest and side-gradient of AP-B (PZ-64I); as discussed further below, this location is hydraulically downgradient of the former coal pile.

2.2.3 Hydraulic Gradients Inconsistent with AP-B Impacts Relative to the Former Coal Pile

Potentiometric data recorded in August 2023 and the associated flow regime were reviewed and refined from the previously used 10-ft isometric interval to a 1-ft isometric interval. This analysis was performed to evaluate the potential sources of SSLs in the FCPA. Based on review of the 1-ft interval isometric potentiometric surface map presented on **Figure 9**, groundwater flow directions are generally to the southeast. Therefore, the areas with highest constituent concentrations are predominantly downgradient of the former coal pile and side-gradient of AP-B. Based on slug tests and the shape of the potentiometric surface map, there is no indication of preferential flow pathways to the FCPA or downgradient of AP-B.

While the edge of the cobalt plume shown on **Figure 9** extends to PZ-63I (a location that could be considered hydraulically downgradient of the current AP-B boundary), potential dispersion and/or minor changes in the groundwater flow direction with time and seasonality likely resulted in broadening of observed cobalt impacts in the FCPA as opposed to cobalt impacts being associated with AP-B. Potential dispersion effects are reasonable in the FCPA since the AP-B dike transitions to the native or fill material in the vicinity of FCPA and the land surface is relatively flat in that area. In addition, there is a likelihood for historical radial groundwater flow from beneath the former coal pile due to the groundwater mounding introduced by dust suppression activities during former coal pile operations. This could also contribute to broadening of the observed SSL impacts.

2.3 Geochemical Groundwater Data Consistent with a Former Coal Pile Signature

Analytical data indicate a unique signature for groundwater in the FCPA (**Table 1**). Specifically, monitoring wells and piezometers in the FCPA generally have lower pH (pH as low as 3.99 s.u. in PZ-58I in August 2023) and higher sulfate concentrations (as high as 2,550 mg/L in PZ-64I in August 2023) compared to piezometers installed within the CCR in AP-B and other sampled locations proximal to AP-B. This is particularly evident in wells screened in the transition zone (near the interface of the partially weathered rock and bedrock) where beryllium, cadmium, cobalt, and lithium exceedances of the GWPS are observed.

Based on a review of the Site groundwater quality data, it is evident that the lower pH levels in the groundwater at the FCPA are inconsistent with pH levels observed within and downgradient of AP-B, as well as Ash Pond C (AP-C) and Ash Pond D (AP-D). Rather, low pH is indicative of impacts downgradient of the former coal pile, as illustrated in **Figure 10**. In 2018, Resolute completed a DPT investigation in the vicinity of the former coal pile to assess select constituents in groundwater including pH. These data have been combined with data collected from interstitial, detection, and assessment wells in 2023 and 2024 to provide a spatial evaluation of pH conditions within, side-gradient, and downgradient of AP-B (Note: **Figure 10** was updated from the version submitted in February 2024 that utilized data through August 2023 per GA EPD request to incorporate the most recent data collected in February 2024. The data used to generate the iso-concentration contours illustrated in the updated version of **Figure 10** is provided in **Table 4**, for reference). **Figure 10** indicates that the lowest observed pH conditions are downgradient of the former coal pile. In contrast, pH values within the AP-B interstitial water are significantly higher and range from 5.8 to 8.4 s.u.

Figure 11 provides a visual and statistical summary of pH measurements collected between 2018 and 2023 from the AP-B interstitial piezometers, wells near AP-B, wells in the FCPA, and locations in/around the former coal pile (statistics backup files provided in **Appendix D**). This analysis indicates the highest pH values are in the interstitial water, while the lowest pH values are in the vicinity of the former coal pile. The pH values observed in and proximal to AP-B are statistically different from those observed in the FCPA and former coal pile, as shown in **Figure 11**. In contrast, the range of low pH values observed in the FCPA is statistically similar to the range of pH observed at the

former coal pile, indicating the observed impacts in the FCPA are attributed to the former coal pile as opposed to AP-B.

Similar to low pH, high sulfate and conductivity concentrations in groundwater are defining characteristics in the FCPA relative to other locations downgradient of AP-B, as well as AP-C and AP-D (**Figure 12** and **13**, respectively). **Figure 12** generally indicates that concentrations of sulfate downgradient of AP-BCD are below 500 mg/L. Whereas, in the FCPA, concentrations of sulfate are observed up to 2,550 mg/L in PZ-64I, based on the August 2023 groundwater data (**Table 1**). **Figure 13** generally indicates that conductivity downgradient of AP-BCD is below 600 microsiemens per centimeter (µS/cm). Whereas, in the FCPA, concentrations of conductivity were observed up to 5,033 µS/cm in DPT-08 installed during the DPT investigation completed by Resolute in 2018 (Note: **Figure 13** was added per GA EPD request to evaluate the spatial distribution of conductivity and incorporate the most recent data collected in February 2024. The data used to generate the iso-concentration contours illustrated in **Figure 13** is provided in **Table 4**, for reference). The spatial distribution of sulfate and conductivity concentrations suggests that higher levels of sulfate and conductivity are observed within and/or directly downgradient of the former coal pile and are likely associated with impacts from the former coal pile as opposed to AP-B. Coal often contains sulfide minerals, which can be oxidized due to infiltration of precipitation or dust suppression water, resulting in some of these observed characteristics including increased sulfate and lower pH in groundwater, and mobilization of metalloids and trace elements (as observed in FCPA wells) (Cook and Fritz, 2002, Cravotta, 2008, Gammons, 2010, Nordstrom and Alpers, 1999).

2.4 Stable Isotopes of Sulfate Indicate a Pyrite Oxidation Signature in the FCPA

As discussed in Section 2.3, the FCPA is characterized by high sulfate concentrations (up to 2,550 mg/L). To evaluate the source of sulfate in groundwater, a stable isotopic evaluation was performed for sulfur ($\delta^{34}S$) and oxygen ($\delta^{18}O$) from sulfate. Stable isotope analysis is based on the preferential fractionation that occurs with stable isotopes under specific climatic conditions (Peterson and Fry, 1987). The ratio of heavy to light isotopes can be used to evaluate the potential origin of a constituent. Because sulfate (SO_4) was identified as a key parameter that distinguishes the FCPA wells from the other areas near AP-B, the stable isotopes of sulfur and oxygen in groundwater were analyzed to evaluate the sources of sulfate in the target area of interest.

Key potential sources of sulfate at the Site include the following:

- sulfate from CCR (coal combustion);
- sulfate from the oxidation of pyrite in coal;
- sulfate from the oxidation of pyrite in native soils; and
- weathering or evaporation of sulfur containing minerals.

Sulfate generated from a combustion source (e.g., from CCR) is typically characterized by higher $\delta^{18}O$ (heavier isotopic signature) due to the influence from atmospheric oxygen. In contrast, sulfate generated from an oxidation source (e.g., oxidation of pyrite in coal) is typically characterized by lower $\delta^{18}O$ (lighter isotopic signature) due to the influence of oxygen from precipitation or groundwater. Weathering or evaporation that result in sulfate reduction are commonly important and often shift $\delta^{34}S$ to more positive (heavier isotopic signature) values. Stable isotopes were evaluated to see if the signatures indicated a difference between pyrite oxidation from coal and coal combustion (CCR). Details regarding this analysis are provided in **Appendix E**.

In June 2023, groundwater, surface water, and interstitial water samples were collected at the following sample locations for analysis of stable isotopes of sulfur and oxygen:

- AP-BCD Locations
  - BRGWA-23S, BRGWC-47, BRGWC-45, PZ-44, BRGWC-25I, BRGWC-52I, BRWC-27I, and BRGWC-32S (Note: data from BRGWC-27I and BRGWC-32S was added in May 2024 at the request of GA EPD)
- Locations Downgradient of the FCPA
  - PZ-58I, PZ-59I, PZ-60I, PZ-63I, PZ-65I, PZ-66I, and BRGWC-50
- AP-B Interstitial Water or Surface Water Locations
  - SW-B-1, DWB-1, and IW-B-1

Sample locations are shown on **Figure 14**; results of the analysis are illustrated on **Figure 15**.

The stable isotope results reveal that samples from the FCPA have a unique isotopic composition driven by sulfate derived from pyrite oxidation (i.e., lower $\delta^{18}O$ consistent

with a former coal pile signature) with low weathering/evaporation (i.e., low $\delta^{34}S$). Other Site-wide samples had an isotopic composition more representative of sulfate reduction (i.e., combustion or weathering processes) relative to the FCPA. These results suggest that the source of sulfate in the FCPA is the former coal pile and further corroborates that the beryllium, cadmium, cobalt, and lithium observed in the FCPA are derived from the former coal pile and not from a release from AP-B.

3. ALTERNATIVE MONITORING STRATEGY FOR AP-B

This ASD demonstrates that the geochemical signature in groundwater monitoring wells in the FCPA is (i) a distinct and separate signature (primarily low pH and high sulfate) from monitoring wells at AP-BCD and (ii) originates from the former coal pile. Data from multiple years of monitoring at the FCPA and across AP-BCD demonstrates that SSLs of beryllium, cadmium, cobalt, and lithium east of AP-B are derived from a source other than CCR. A revised monitoring strategy is necessary to meet the groundwater monitoring performance standards of the CCR Rule, specifically monitoring wells and piezometers in the FCPA are recommended to be removed from the monitoring network since they do not "accurately represent the quality of groundwater passing the waste boundary of the CCR unit." In addition to the proposed removal of monitoring wells and piezometers from the current detection and assessment network, Georgia Power recommends including PZ-44 in the AP-B detection monitoring network instead of the assessment monitoring network. Georgia Power also recommends continued groundwater monitoring and corrective action, if warranted, in the FCPA to be regulated by an alternate program of GA EPD since the impacts are from a source other than the CCR unit.

4. CONCLUSIONS

The following lines of evidence support the conclusion that the reported SSLs of beryllium, cadmium, cobalt, and lithium identified in PZ-51I, PZ-58I, PZ-60I, PZ-61I, and BRGWC-50, expected SSLs of cobalt in PZ-63I and PZ-64I, along with elevated concentrations of these and other Appendix IV constituents in FCPA monitoring wells and piezometers are not consistent with an impact from AP-B but rather attributed to impacts from the former coal pile:

- Former Coal Pile Investigation:
    - Under certain, site-specific conditions at Plant Branch, groundwater was likely impacted by former coal pile contact water, which has the potential to contain trace elements and be characterized by a low pH generated through the oxidation of coal on the ground surface.
    - In 2018, a Site investigation completed within and east of the former coal pile as part of Plant Branch decommissioning efforts identified arsenic and cadmium in groundwater at elevated concentrations (above the HSRA NCs) and attributed the former coal pile as the source for these constituents in groundwater (GPC, 2018).
- AP-B Interstitial Water Versus FCPA Groundwater:
    - The concentration and distribution of SSL constituents in interstitial water samples. For example, beryllium, cadmium, and cobalt are non-detect or detected at trace levels below the GWPS in recent piezometers (IW-B-3, IW-B-4, and IW-B-5) installed within the CCR in AP-B. This indicates that interstitial water is not the source of these constituents observed in groundwater wells in the FCPA.
    - SSL constituent groundwater concentrations observed in the FCPA are higher than those observed in and downgradient of AP-B (with the highest concentrations in FCPA piezometers observed at the greatest distance from AP-B), which confirms the lack of groundwater concentration gradient for SSL constituents from AP-B to the FCPA wells.

  - Boron, an Appendix III constituent and CCR tracer concentrations are observed to be the lowest in the FCPA relative to other locations downgradient of AP-BCD. In addition, statistical evidence (evaluated by histograms) confirms different groundwater signatures in the FCPA relative to within and downgradient of AP-B.

  - A refined flow regime analysis within the FCPA and areas downgradient of AP-B suggests that the observed exceedances of SSL constituents are predominantly hydraulically downgradient of and the result of impacts from the former coal pile.

- Groundwater Geochemistry:

  - The analytical data and geochemical signature (primarily low pH, high sulfate, and high conductivity) of wells in the FCPA are inconsistent with conditions within and downgradient of AP-B.

  - Stable oxygen and sulfur isotopes of sulfate indicate that the source of sulfate in the FCPA is from pyrite oxidation of coal rather than pyrite combustion (i.e., sulfate released from CCR). This further supports that the impacts in the FCPA are the result of the former coal pile as opposed to AP-B.

During GA EPD's review of this ASD, detection and assessment monitoring wells in the FCPA will continue to be sampled as part of the ongoing assessment monitoring program for AP-BCD. Georgia Power will work with GA EPD to regulate elevated concentrations related to the former coal pile outside of the CCR regulations since the impacts are from a source other than the CCR unit.

5. REFERENCES

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TABLES

Table 1
Summary of Groundwater Analytical Data
Plant Branch AP-BCD, Putnam County, Georgia

	Well ID:	BRGWA-2S	BRGWA-2I	BRGWA-5S	BRGWA-5I	BRGWA-6S	BRGWA-23S	BRGWC-25I	BRGWC-27I	BRGWC-29I	BRGWC-30I	BRGWC-32S	BRGWC-45
	Sample Date:	8/22/23	8/22/23	8/22/23	8/22/23	8/22/23	8/22/23	8/24/23	8/24/23	8/24/23	8/22/23	8/22/23	8/24/23
	Parameter												
APPENDIX III	Boron	0.00738 J	0.00649 J	0.00764 J	0.0073 J	0.00611 J	0.039	1.95	1.25	1.34	2.05	1.13	0.0444
	Calcium	5.02	12.6	14.9	14.3	3.79	5.95	69.6	74.4	71.4	414	45.1	34
	Chloride	2.14	1.9	3.37	3.53	2.34	2.41	8.47	4.81	6.08	3.35	4.3	16.5
	Fluoride	0.229	0.267	0.277	0.289	0.0787 J	0.114	0.25	0.302	0.0849 J	0.116	0.0477 J	0.185
	pH	5.97	6.91	6.09	6.36	6.27	5.89	6.14	6.01	4.48	6.44	5.98	5.71
	Sulfate	0.526	6.85	0.54	1.83	0.467	11.3	174	94.5	288	1,250	256	114
	TDS	36	81	73	80	30	70	354	309	418	1,920	412	242
APPENDIX IV	Antimony	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	Arsenic	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
	Barium	0.0135	0.0068	0.0352	0.0245	0.0143	0.0434	0.0271	0.0151	0.0174	0.04	0.0243	0.0524
	Beryllium	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	0.00113	< 0.0002	< 0.0002	< 0.0002
	Cadmium	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003
	Chromium	0.00921 J	< 0.003	0.00472 J	0.00701 J	0.0132	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
	Cobalt	0.000707 J	0.000707 J	0.000327 J	0.000474 J	< 0.0003	< 0.0003	0.00343	0.00601	0.00724	0.00183	< 0.0003	0.00221
	Lead	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
	Lithium	< 0.003	0.0209	< 0.003	< 0.003	< 0.003	0.00596 J	< 0.003	< 0.003	0.00349 J	0.0253	0.00392 J	< 0.003
	Mercury	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067
	Molybdenum	< 0.0002	0.00169	< 0.0002	0.000953 J	< 0.0002	< 0.0002	0.00141	< 0.0002	< 0.0002	0.00111	< 0.0002	0.000356 J
	Comb. Radium 226/228	0.592 U	0.857 U	1.31 U	1.36	1.89 U	2.16	1.21 U	2.23	3.02	2.71	2.33	0.607 U
	Selenium	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	0.21	< 0.0015
	Thallium	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006
GEOCHEM	Alkalinity (Bicarbonate as CaCO3)	37.1	71.7	68.4	77.2	36.8	32.9	98.8	35.6	< 0.725	126	28.6	45.2
	Alkalinity (Carbonate as CaCO3)	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725
	Alkalinity (total) as CaCO3	37.1	71.7	68.4	77.2	36.8	32.9	98.8	35.6	< 0.725	126	28.6	45.2
	Ferrous Iron	--	--	--	--	--	0	0	0	6.5	0.5	--	0
	Iron	0.0513 J	0.0904 J	0.263	0.0953 J	< 0.033	0.0877 J	0.101	0.0749 J	23.3	0.992	0.0935 J	0.16
	Magnesium	4.66	7.27	6.25	9.41	3.48	3.18	23.4	6.53	8.02	63.4	29.7	16.4
	Manganese	0.0283	0.0145	0.0105	0.00104 J	0.0012 J	0.00405 J	2.14	0.458	1.38	1.4	0.00207 J	0.211
	Nitrate	0.218	< 0.033	0.203	0.266	0.646	0.212	< 0.033	0.0657 J	0.297	< 0.033	0.184	< 0.033
	Potassium	0.415	5.25	0.435	0.933	0.607	1.81	4.79	4.9	9.76	6.06	2.03	3
	Sodium	3.09	5.26	3.48	4.69	2.11	8.63	20.6	16.3	18.2	30.7	26.1	14.5
	Sulfide	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033

Notes:
1. -- = Parameter was not analyzed
2. < = Indicates the parameter was not detected above the analytical method detection limit (MDL).
3. J = Indicates the parameter was estimated and detected between the MDL and the reporting limit (RL).
4. TDS = total dissolved solids
5. U = Indicates the parameter was not detected above the analytical minimum detectable concentration (MDC) (Specific to combined radium 226/228)
6. Appendix III/IV parameter per 40 CFR 257 Subpart D. Parameters are reported in units of milligrams per liter (mg/L), except for pH reported as s.u. (standard units) and combined radium reported as picocuries per liter (pCi/L).
7. Metals were analyzed by EPA Method 6010D, 6020B, and 7470A, anions were analyzed by EPA Method 300.0, TDS was analyzed by SM2540-2011, and combined radium 226/228 by EPA Methods 9315/9320.
8. The pH value presented was recorded at the time of sample collection in the field.

Table 1
Summary of Groundwater Analytical Data
Plant Branch AP-BCD, Putnam County, Georgia

	Well ID:	BRGWC-47	BRGWC-50	BRGWC-52I	PZ-44	PZ-50D	PZ-51I	PZ-51D	PZ-58I	PZ-60I	PZ-61I	PZ-63I	PZ-64I
	Sample Date:	8/24/23	8/23/23	8/24/23	8/23/23	8/23/23	8/23/23	8/24/23	8/23/23	8/23/23	8/22/23	8/23/23	8/23/23
	Parameter												
APPENDIX III	Boron	0.689	0.372	1.87	1.35	0.285	0.43	0.0387	0.429	0.3	0.331	0.706	0.00834 J
	Calcium	347	214	37.4	26.5	211	217	120	162	294	209	56.8	363
	Chloride	4.67	14.8	6.28	6.83	10.1	9.43	22.2	11	25	15.7	6.81	36.5
	Fluoride	0.243	0.499	0.188 J	0.195	0.193	0.0744 J	0.395	1.1	1.32	0.188	0.252	0.135
	pH	5.69	5.12	6.24	6.11	6.09	5.37	7.07	3.99	4.58	5.16	5.68	5.21
	Sulfate	1,300	1,290	150	49.5	854	1,200	346	949	1,830	1,440	294	2,550
	TDS	1,970	2,180	281	184	1,360	1,860	638	1,570	2,880	2,220	503	4,640
APPENDIX IV	Antimony	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	Arsenic	0.0038 J	< 0.002	< 0.002	< 0.002	0.003 J	< 0.002	0.00408 J	< 0.002	< 0.002	< 0.002	< 0.002	0.00459 J
	Barium	0.028	0.0166	0.0415	0.0555	0.0312	0.0149	0.0448	0.0173	0.0232	0.0127	0.0221	0.0177
	Beryllium	< 0.0002	0.00867	< 0.0002	< 0.0002	< 0.001	< 0.0002	< 0.0002	0.0328	0.067	0.00145	< 0.002	0.00248
	Cadmium	< 0.0003	0.00744	< 0.0003	< 0.0003	< 0.0003	0.000679 J	< 0.0003	0.00453	0.0149	0.000496 J	< 0.0003	< 0.0003
	Chromium	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
	Cobalt	< 0.0003	1.38	0.000317 J	< 0.0003	0.00991	0.0259	0.000427 J	0.556	3.79	0.757	0.0309	10.6
	Lead	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.00086 J	< 0.0005	< 0.0005	< 0.0005	< 0.0005
	Lithium	0.0532	0.0393	0.0131	0.0056 J	0.0232	0.0221	0.00667 J	0.0468	0.0936	0.0106	0.00516 J	0.0126
	Mercury	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067
	Molybdenum	0.000296 J	< 0.0002	0.000782 J	< 0.0002	< 0.0002	< 0.0002	0.00142	< 0.0002	< 0.0002	< 0.0002	0.000539 J	< 0.0002
	Comb. Radium 226/228	2.39	1.55	6.36	0.477 U	2.12	5.22	1.27	3.71	4.48	0.868 U	2.31	0.877 U
	Selenium	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	0.00494 J	0.0043 J	0.00483 J	< 0.0015	0.0163
	Thallium	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006
GEOCHEM	Alkalinity (Bicarbonate as CaCO3)	27.3	11	53.3	81.3	72.2	23.5	134	< 0.725	< 0.725	11.3	29.1	32.9
	Alkalinity (Carbonate as CaCO3)	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725
	Alkalinity (total) as CaCO3	27.3	11	53.3	81.3	72.2	23.5	134	< 0.725	< 0.725	11.3	29.1	32.9
	Ferrous Iron	0	0	1	0	4	0	1.5	7	1.5	0.5	1.5	1.75
	Iron	0.291	0.409	0.956	0.0501 J	4.37	0.136	1.82	52.8	1.6	0.348	1.18	3
	Magnesium	133	142	18.1	10.1	73.3	133	26.1	85.8	193	172	37.7	261
	Manganese	0.00873	103	0.549	0.478	2.56	49.9	1.34	31.4	175	107	6.97	380
	Nitrate	0.117	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033
	Potassium	11.9	10.6	4.65	2.44	12	11.2	11.3	7.79	13.8	6.3	7.62	13.5
	Sodium	44.2	49.9	19	11.3	39.5	43.6	52.2	34.7	65.3	59.6	18.5	75.3
	Sulfide	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	0.192	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033

Notes:
1. -- = Parameter was not analyzed
2. < = Indicates the parameter was not detected above the analytical method detection limit (MDL).
3. J = Indicates the parameter was estimated and detected between the MDL and the reporting limit (RL).
4. TDS = total dissolved solids
5. U = Indicates the parameter was not detected above the analytical minimum detectable concentration (MDC) (Specific to combined radium 226/228)
6. Appendix III/IV parameter per 40 CFR 257 Subpart D. Parameters are reported in units of milligrams per liter (mg/L), except for pH reported as s.u. (standard units) and combined radium reported as picocuries per liter (pCi/L).
7. Metals were analyzed by EPA Method 6010D, 6020B, and 7470A, anions were analyzed by EPA Method 300.0, TDS was analyzed by SM2540-2011, and combined radium 226/228 by EPA Methods 9315/9320.
8. The pH value presented was recorded at the time of sample collection in the field.

Table 2
Sequential Extraction Procedure Data Summary
Plant Branch AP-B, Putnam County, Georgia

Analyte	SEP Fraction	BRGWA-2S	BRGWA-2S	BRGWA-5S	BRGWA-5S	BRGWA-6S	BRGWA-6S	BRGWC-50	BRGWC-50	PZ-51S
		39 FT BGS	43 FT BGS	32 FT BGS	38 FT BGS	42 FT BGS	48 FT BGS	59 FT BGS	63-63.5 FT BGS	40-45 FT BGS
		5/13/2020	5/13/2020	5/14/2020	5/14/2020	5/14/2020	5/14/2020	5/15/2020	5/15/2020	3/19/2021
		Upgradient	Upgradient	Upgradient	Upgradient	Upgradient	Upgradient	Downgradient (AP-B)	Downgradient (AP-B)	Downgradient (AP-B)
Beryllium	Exchangeable	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbonate	ND	ND *	ND *	ND *	ND *	ND *	ND *	ND *	ND
	Amorphous Fe/Mn Oxides	0.16 J	0.15 J	0.089 J	0.073 J	0.049 J	0.066 J	0.20 J	ND	0.055 J
	Crystalline Fe/Mn Oxides	0.77	0.47	0.25 J	0.21 J	0.45	0.20 J	0.32	ND	0.44
	Organic-Bound	ND	ND *	ND *	ND *	ND *	ND *	ND *	ND *	ND
	Sulfides	0.29 J	0.16 J	0.082 J	0.075 J	0.15 J	0.11 J	0.23 J	ND	0.22 J
	Residual	ND	ND	0.35	0.33	0.19 J	ND	1.6	0.94	0.44
	Sum of Steps	1.2	0.78	0.77	0.69	0.84	0.38	2.3	0.94	1.2
	Total	0.66	0.46	0.67	0.60	0.66 J	0.31 J	1.9	0.73	1.2
Cadmium	Exchangeable	ND	ND	ND	ND	ND	ND	0.11 J	ND	ND
	Carbonate	ND	ND	ND	ND	ND	ND	0.084 J	ND	ND
	Amorphous Fe/Mn Oxides	0.016 JB*	ND *	0.021 JB*	0.023 JB*	0.11 JB*	0.094 JB*	0.10 JB*	0.028 JB*	0.015 JB
	Crystalline Fe/Mn Oxides	ND	ND	0.018 J	ND	ND	0.022 J	0.36	ND	ND
	Organic-Bound	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Sulfides	ND L	ND	ND	ND	ND L	ND	ND	ND	ND
	Residual	0.21 J	0.59 J	0.17 J	ND	0.49	0.28 J	0.047 J	0.12 J	ND
	Sum of Steps	0.22 J	0.59	0.21 J	0.023 J	0.60	0.39	0.70	0.15 J	0.015 J
	Total	1.4 J	1.6 J	2.2	2.20	1.70	0.66 J	0.72	1.4	ND
Cobalt	Exchangeable	ND	ND	ND	ND	ND	ND	1.60 J	ND	ND
	Carbonate	ND	ND	ND	ND	ND	ND	1.10 J	ND	ND
	Amorphous Fe/Mn Oxides	14.0	14.0	4.9	6.0	19.0	21.0	2.60 J	ND	2.3 J
	Crystalline Fe/Mn Oxides	6.5	13.0	2.7 J	2.9 J	9.9	9.9	1.50 J	0.30 J	2.5 J
	Organic-Bound	ND *	ND *	ND *	ND *	ND *	ND *	ND *	ND *	ND
	Sulfides	8.3	5.2	4.0	5.4	5.2	5.6	4.50 J	8.90 J	5.9
	Residual	8.1 J	28.0 J	18.0	15.0	8.7 J	16.0 J	0.31 J	1.20 J	6.4 J
	Sum of Steps	36.0	60.0	29.0	30.0	43.0	53.0	12.0	10.0	17.0
	Total	72.0	54.0 J	36.0	43.0	58.0	12.0 J	18.0	64.0	11.0 J
Lithium	Exchangeable	NA	NA	NA	NA	NA	NA	NA	NA	ND
	Carbonate	NA	NA	NA	NA	NA	NA	NA	NA	ND
	Amorphous Fe/Mn Oxides	NA	NA	NA	NA	NA	NA	NA	NA	ND
	Crystalline Fe/Mn Oxides	NA	NA	NA	NA	NA	NA	NA	NA	0.70 J
	Organic-Bound	NA	NA	NA	NA	NA	NA	NA	NA	5.0 JB
	Sulfides	NA	NA	NA	NA	NA	NA	NA	NA	7.5
	Residual	NA	NA	NA	NA	NA	NA	NA	NA	1.7 J
	Sum of Steps	NA	NA	NA	NA	NA	NA	NA	NA	15.0
	Total	NA	NA	NA	NA	NA	NA	NA	NA	15.0

Notes:
1. All results are reported in milligram of constituent per kilogram of total sample mass
2. ND = compound not detected
3. SEP = sequential extraction procedure
4. J = Results are less than the reporting/requested limit (RL) but greater than or equal to the method detection limit (MDL) and the concentration is an approximate value
5. B = Compound was not found in the blank and sample
6. * = Lab control sample and Lab control sample duplicate are outside acceptance limits and high biased
7. L = Negative instrument reading had an absolute value greater than the reporting limit
8. Fe = iron
9. Mn = manganese
10. FT BGS = feet below ground surface
11. NS - not analyzed

Table 3
AP-B Interstitial Piezometer Data Summary
Plant Branch AP-B, Putnam County, Georgia

Analyte	Unit	Interstitial Water							
		IW-B-1		IW-B-2			IW-B-3	IW-B-4	IW-B-5
		3/3/2021	2/1/2023	10/22/2019	3/3/2021	1/31/2023	6/5/2023	6/5/2023	6/5/2023
Analytical Parameters									
Boron	mg/L	1.1	1.52	4.3	2	1.16	1.28	1.05	0.366
Calcium	mg/L	135	168	177	196	196	166	95.2	36.8
Chloride	mg/L	3.5	7.41	6.3	5.7	5.28	29.6	19.3	0.693
Fluoride	mg/L	0.081 J	0.227	1.4	1.2	0.787	0.129	0.112	0.113
Sulfate	mg/L	104	160	< 0.017 U	612	689	636	284	62.1
TDS	mg/L	488	597	950	1,050	1,230	826	593	232
Beryllium	mg/L	NS	NS	< 0.00007 U	NS	NS	< 0.0002 U	< 0.0002 U	< 0.0002 U
Cadmium	mg/L	0.0002 J	< 0.0003 U	0.00012 J	< 0.0001 U	< 0.0003 U	< 0.0003 U	< 0.0003 U	< 0.0003 U
Cobalt	mg/L	0.003 J	0.00123	< 0.0003 U	< 0.0004 U	< 0.0003 U	< 0.0003 U	0.00586	0.000852 J
Lithium	mg/L	NS	NS	0.29	NS	NS	NS	NS	NS
Field Parameters									
Dissolved Oxygen (DO)	mg/L	0.54	0.08	0.06	0.09	0.01	0.17	0.12	0.16
Oxidation Reduction Potential (ORP)	mV	24.4	8.34	-191.7	-182	-91.88	81.82	70.89	29.14
pH	SU	6.86	7.32	7.31	7.15	6.53	8.40	5.79	5.81
Specific Conductance	µS/cm	790.5	943.06	1,253.60	1,464.95	1,507.67	828.84	610.65	227.31
Temperature	deg C	18.83	18.62	22.81	18.1	17.48	21.34	23.11	21.06
Turbidity	NTU	4.66	4.4	3.77	4.62	4.61	4.29	0.7	4

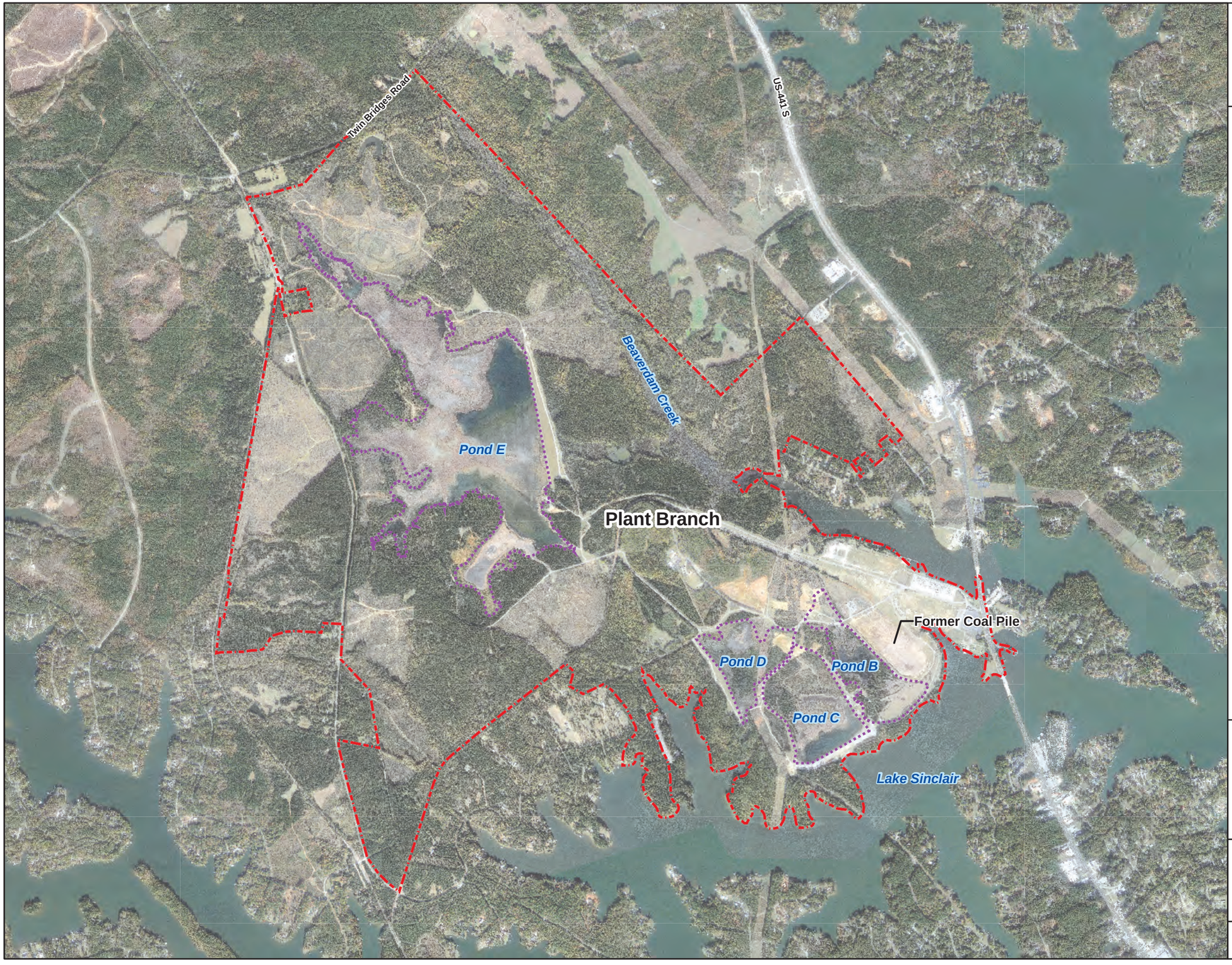
Notes:
1. < = for compounds not detected, the associated value is the method detection limit
2. J = Indicates the parameter was estimated and detected between the method detection limit (MDL) and the reporting limit (RL)
3. mg/L = milligrams per liter
4. mV = millivolts
5. deg C = degrees celsius
6. NTU = Nephelometric Turbidity Units
7. SU = Standard Unit
8. µS/cm = microsiemens per centimeter
9. NS = not sampled

Table 4
pH and Specific Conductivity Data Summary
Plant Branch AP-BCD, Putnam County, Georgia

Parameter / Location	Sample Date	pH (s.u.)	Specific Conductivity (µS/cm)
DPT-01	3/27/2018	4.38	4,314
DPT-02	3/28/2018	4.01	2,172
DPT-04	3/26/2024	4.02	4,920
DPT-05	3/27/2018	4.39	2,430
DPT-06	3/27/2018	5.39	2,890
DPT-07	3/27/2018	3.93	1,354
DPT-08	3/27/2018	4.23	5,033
DPT-09	3/28/2018	4.43	4,061
DPT-10	3/28/2018	4.61	510
DPT-11	3/28/2018	6.03	473
DPT-13	3/30/2018	4.1	3,093
DPT-15	3/29/2018	3.82	2,080
DPT-17	3/29/2018	5.63	2,220
DPT-18	3/29/2018	4.88	1,333
DPT-19	3/30/2018	5.54	1,919
DPT-21	3/30/2018	5.23	2,314
DPT-22	3/30/2018	5.62	905
BRGWC-45	2/1/2024	5.85	311.04
BRGWC-50	2/1/2024	5.14	1,701.26
BRGWC-52I	2/1/2024	6.3	328.9
C1-06	2/5/2018	3.51	2,251
C2-02	10/6/2022	3.69	2,706.30
IW-B-1	2/1/2023	7.32	943.06
IW-B-2	1/31/2023	6.53	1,507.70
IW-B-3	6/5/2023	8.4	891.16
IW-B-4	6/5/2023	5.79	633.56
IW-B-5	6/5/2023	5.81	245.79
PZ-44	1/30/2024	6.18	214.55
PZ-50D	2/1/2024	6.16	1,174.35
PZ-51D	2/1/2024	6.74	856.78
PZ-51I	2/1/2024	5.54	1,836.52
PZ-58I	2/1/2024	4.04	1,263.58
PZ-60I	2/1/2024	4.75	1,946.96
PZ-61I	2/1/2024	5.26	1,599.72
PZ-63I	2/1/2024	5.7	497.98
PZ-64I	2/1/2024	5.13	2,631.08

Notes:
1. s.u. = standard units
2. µS/cm = micro siemens per centimeter
3. The pH value presented was recorded at the time of sample collection in the field.

FIGURES



N

LEGEND

- Plant Branch Property Boundary
- Approximate Ash Pond Boundary

Notes:
1. Coordinate System: NAD 1983 State Plane Georgia West_FIPS (U.S. Feet).
2. Property Boundary Provided by Southern Company Services.
3. Aerial: Google Earth Imagery, November 2019 and Georgia Power Company, May 2023.

0 2,000 4,000
Scale in Feet

SITE LOCATION MAP

GEORGIA POWER COMPANY
PLANT BRANCH AP-BCD
PUTNAM COUNTY, GEORGIA

Prepared For: Georgia Power

Prepared By: Geosyntec consultants

KENNESAW, GA | JULY 2024

FIGURE 1

N

LEGEND

- Detection Monitoring Well
- Horizontal Assessment Monitoring Well
- Vertical Assessment Monitoring Well
- Piezometer
- Interstitial Piezometer
- Angled Well Screen
- Plant Branch Property Boundary
- Approximate Ash Pond Boundary
- Former Coal Pile Area (FCPA)

Notes:
1. Property Boundary Provided by Southern Company Services.
2. Aerial: Google Earth Imagery, November 2019 and Georgia Power Company, May 2023.

0 600 1,200
Scale in Feet

MONITORING WELL NETWORK MAP

GEORGIA POWER COMPANY
PLANT BRANCH AP-BCD
PUTNAM COUNTY, GEORGIA

Prepared For: Georgia Power

Prepared By: Geosyntec consultants

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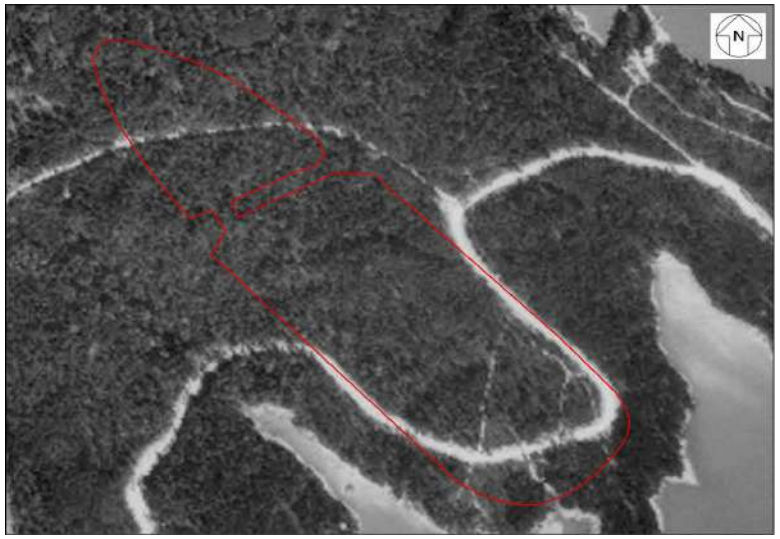
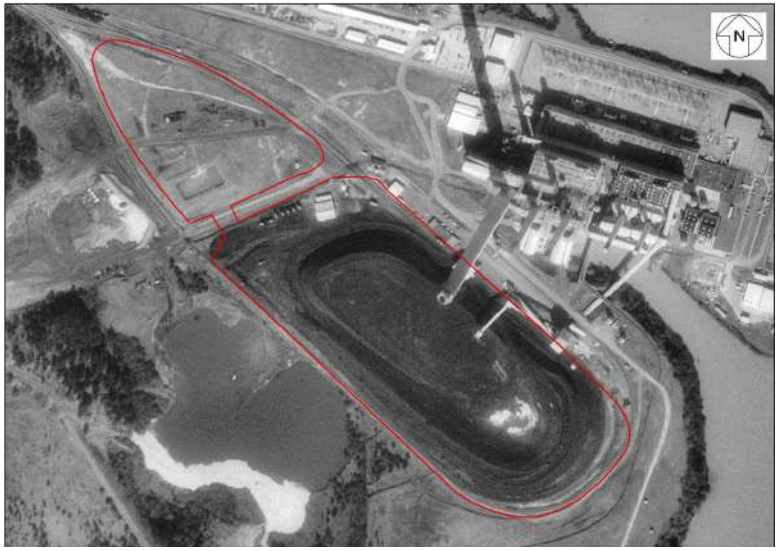
FIGURE 2



October 10, 1960

November 11, 1965

October 13, 1967 (superimposed onto Nov 1965 image)



January 1, 1993

Notes:
1. The red outline details the approximate extent of the coal pile.
2. Aerial source: SCS (1960, 1965, 1967); Google Earth Pro (1993).

Temporal Evolution of the Former Coal Pile: 1960 – 1993

Georgia Power Company
Plant Branch AP-BCD
Putnam County, Georgia

Prepared For: Georgia Power

Prepared By: Geosyntec consultants

KENNESAW, GA | JULY 2024

Figure 3a

November 3, 2013

October 15, 2015

March 15, 2017

May 22, 2023

Notes:
1. The red outline details the approximate extent of the coal pile.
2. Aerial source: Google Earth Pro (2013, 2015, 2017, 2023).

Temporal Evolution of the Former Coal Pile: 2013 – 2023

Georgia Power Company
Plant Branch AP-BCD
Putnam County, Georgia

Prepared For: Georgia Power

Prepared By: Geosyntec consultants

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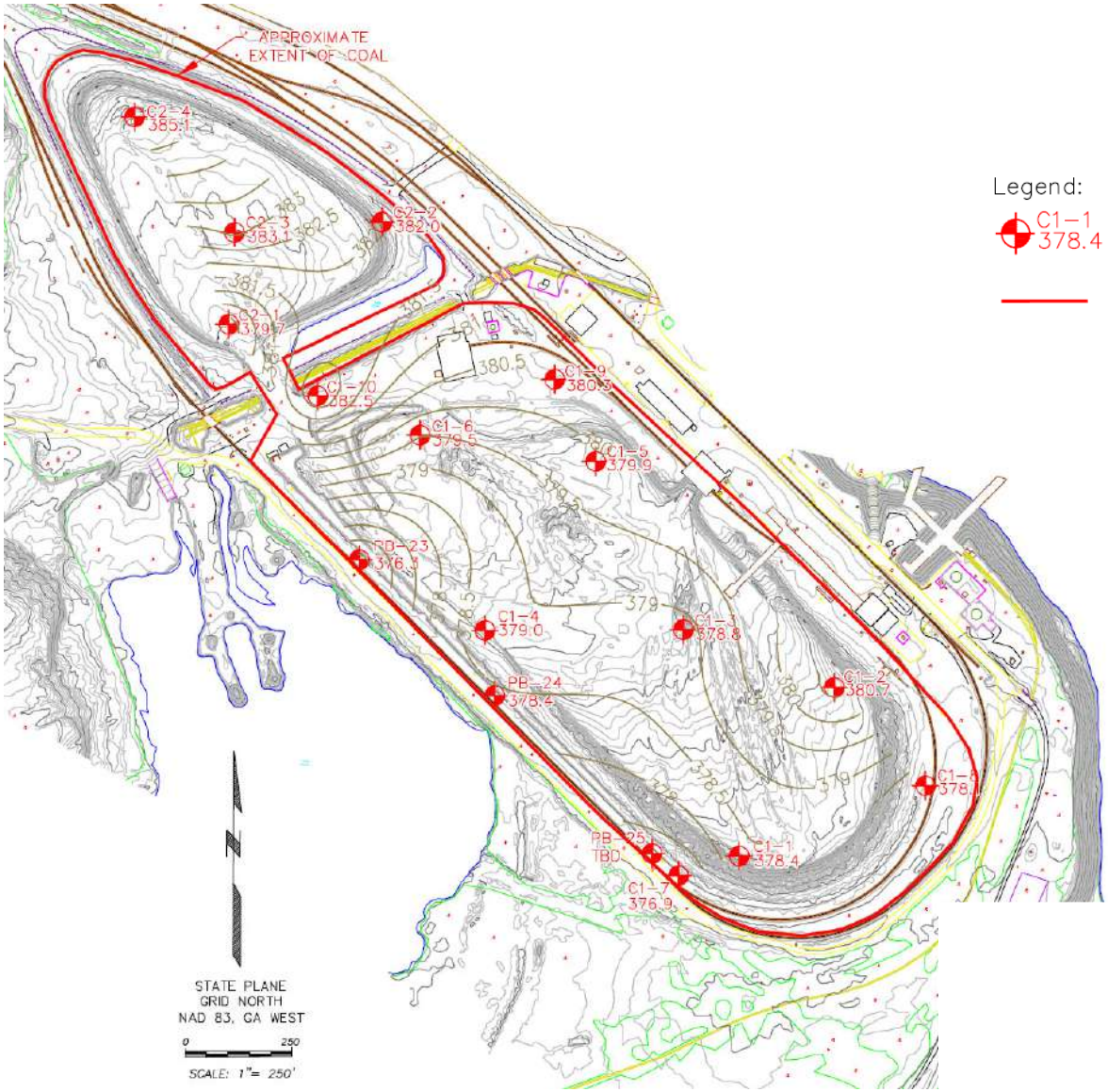
Figure 3b



Legend:

C1-1 378.4 Boring location and name
Coal Pile Bottom including coal/soil mix

Approximate extent of coal

Notes:

1. From Southern Company Services (SCS) Plant Branch Coal Pile Decommissioning Evaluation

Estimated Aerial Extent of Coal

Georgia Power Company
Plant Branch AP-BCD
Putnam County, Georgia

Prepared For:	Prepared By:	Figure
Georgia Power	Geosyntec consultants	4
KENNESAW, GA	JULY 2024	

N

LEGEND

- DPT Boring
- Monitoring Well
- Plant Branch Property Boundary
- Approximate Ash Pond Boundary
- Approximate Extent of Former Coal

Notes:
1. DPT and monitoring well results collected in March 2018.
2. pH presented in standard units (s.u.).
3. Specific Conductivity (Cond) presented in micro siemens per centimeter (µS/cm).
4. Arsenic (As) presented in milligrams per liter (mg/L). Cadmium (Cd) presented in milligrams per liter (mg/L).
5. Property Boundary Provided by Southern Company Services.
6. Aerial Source: ESRI World Wayback Imagery March 2018.

0 200 400

Scale in Feet

SUMMARY OF 2018 RESOLUTE GROUNDWATER INVESTIGATION

GEORGIA POWER COMPANY
PLANT BRANCH AP-BCD
PUTNAM COUNTY, GEORGIA

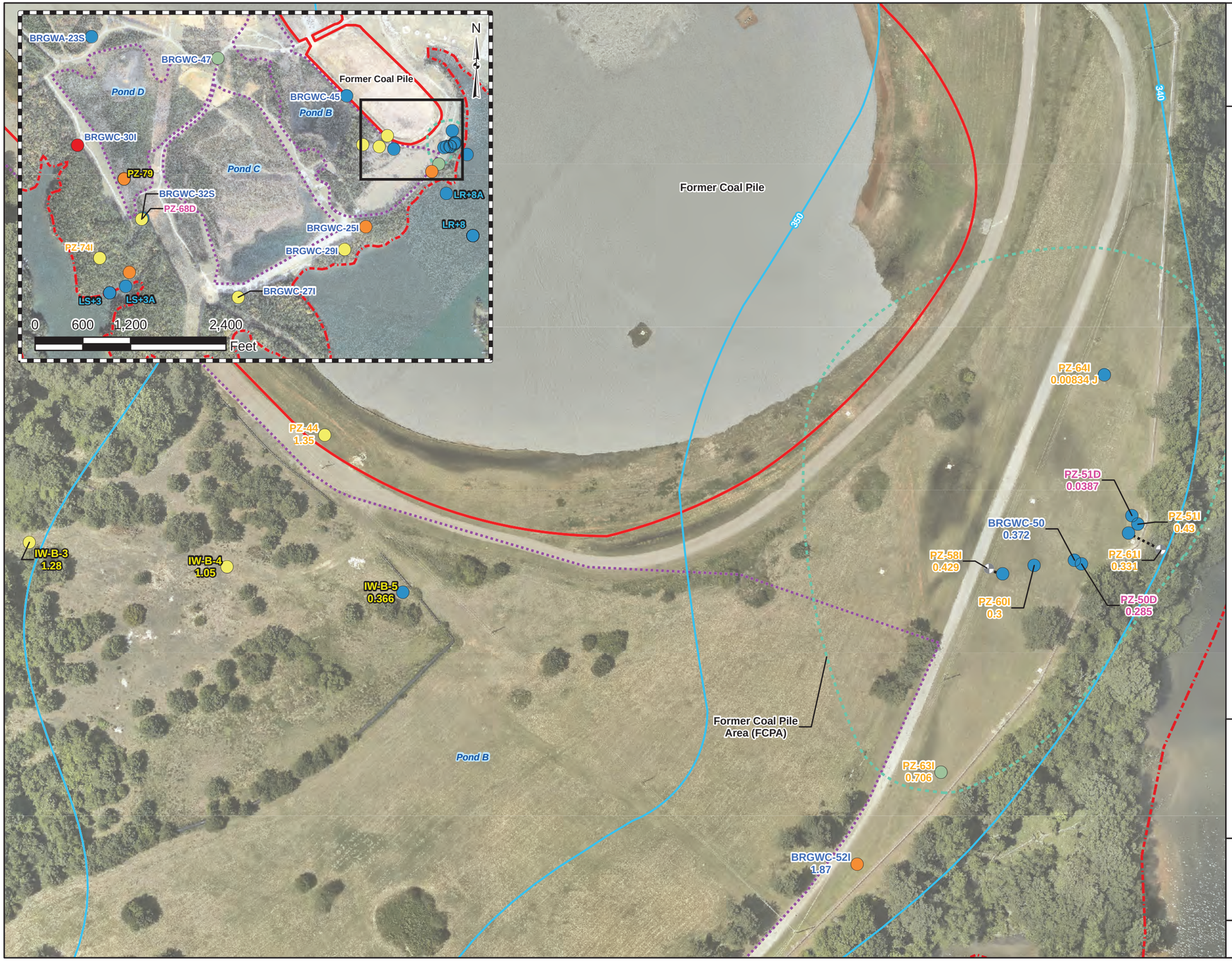
Prepared For: Georgia Power

Prepared By: Geosyntec consultants

KENNESAW, GA

JULY 2024

FIGURE 5



N

LEGEND

Boron (mg/L)

- < 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 2.5
- Groundwater Elevation Iso-Contour (August 2023)
- Plant Branch Property Boundary
- Approximate Ash Pond Boundary
- Former Coal Pile Area (FCPA)
- Approximate Extent of Former Coal Pile

Notes:
1. Concentration data from groundwater samples collected during the August 2023, semiannual monitoring event. Interstitial water samples collected June 5, 2023.
2. Concentrations are reported in milligrams per liter (mg/L).
3. Water level elevation recorded on August 21, 2023.
4. Elevation provided in feet (ft) referenced to the North American Vertical Datum (NAVD) 88.
5. J - Estimated value.
6. Property Boundary Provided by Southern Company Services.
7. Aerial: Google Earth Imagery, November 2019 and Georgia Power Company, May 2023.

0 100 200
Scale in Feet

AP-BCD BORON CONCENTRATIONS - 2023

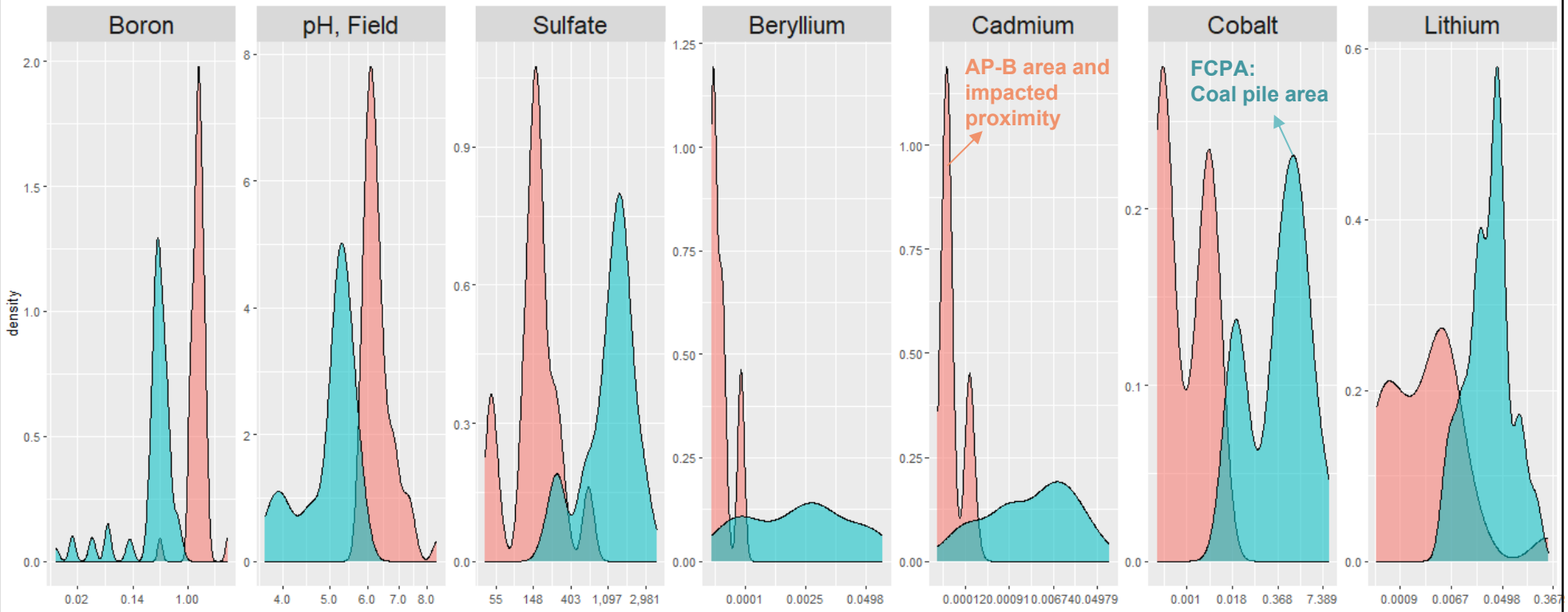
GEORGIA POWER COMPANY
PLANT BRANCH AP-BCD
PUTNAM COUNTY, GEORGIA

Prepared For: Georgia Power

Prepared By: Geosyntec consultants

KENNESAW, GA | JULY 2024

FIGURE 6



Notes:

1. Pink shading: AP-B area and potentially impacted proximity; BRGWC-25I, BRGWC-52I, IW-B-1, IW-B-2, IW-B-3, IW-B-4, IW-B-5 (2018-2023)
2. Blue Shading: FCPA: Former Coal Pile Area; BRGWC-50, PZ-51I, PZ-57I, PZ-58I, PZ-59I, PZ-60I, PZ-61I, PZ-62I, PZ-63I, PZ-64I, PZ-65I, PZ-66I (2018-2023)
3. The graphs represents the smoothed histogram (kernel density estimate) for the two populations.
4. The units for parameters on the x axis, except pH, are milligrams per liter (mg/L).

Histograms

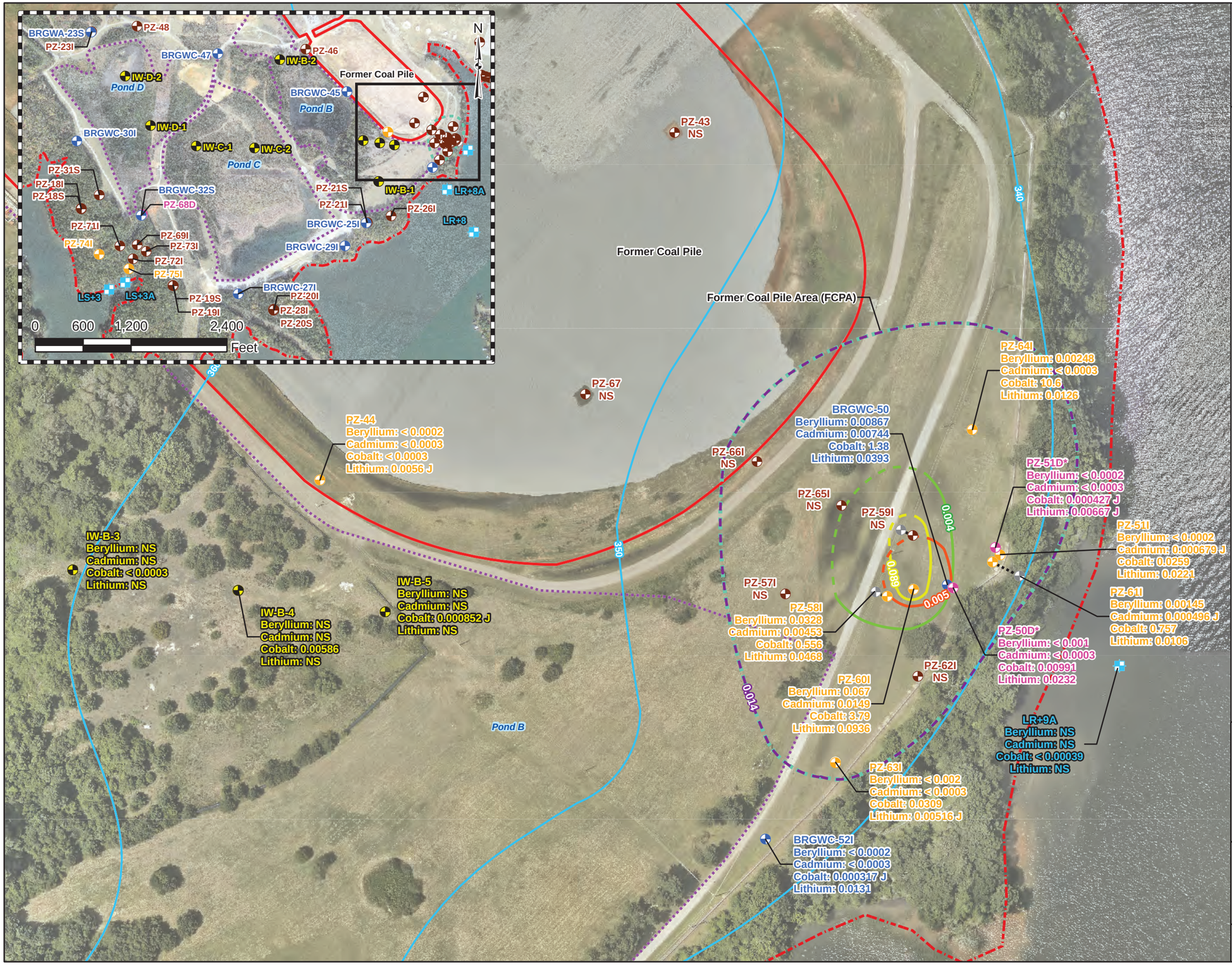
Georgia Power Company
Plant Branch AP-BCD
Putnam County, Georgia

Prepared For: Georgia Power

Prepared By: Geosyntec consultants

KENNESAW, GA | JULY 2024

Figure 7



N

LEGEND

- Detection Monitoring Well
- Horizontal Assessment Monitoring Well
- Vertical Assessment Monitoring Well
- Piezometer
- Interstitial Piezometer
- Angled Well Screen
- Surface Water
- Groundwater Elevation Iso-Contour (August 2023)
- 0.004 Beryllium GWPS Iso-Concentration Contour (mg/L) (dashed where inferred)
- 0.005 Cadmium GWPS Iso-Concentration Contour (mg/L) (dashed where inferred)
- 0.014 Cobalt GWPS Iso-Concentration Contour (mg/L) (dashed where inferred)
- 0.089 Lithium GWPS Iso-Concentration Contour (mg/L) (dashed where inferred)
- Plant Branch Property Boundary
- Approximate Ash Pond Boundary
- Former Coal Pile Area (FCPA)
- Approximate Extent of Former Coal Pile

Notes:
1. Concentration data from groundwater samples collected during the August 2023, semiannual monitoring event. Interstitial water samples collected June 5, 2023.
2. Concentrations are reported in milligrams per liter (mg/L).
3. Water level elevation recorded on August 21, 2023.
4. Elevation provided in feet (ft) referenced to the North American Vertical Datum (NAVD) 88.
5. The Groundwater Protection Standards (GWPS) for beryllium is 0.004 mg/L, cadmium is 0.005 mg/L, cobalt is 0.014 mg/L, and Lithium is 0.089 mg/L.
6. J - Estimated value.
7. * - Data reported was not used to generate the iso-concentration contour.
8. NS - Not Sampled
9. Property Boundary Provided by Southern Company Services.
10. Aerial: Google Earth Imagery, November 2019 and Georgia Power Company, May 2023.

0 120 240
Scale in Feet

ISO-CONCENTRATION MAP, BERYLLIUM, CADMIUM, COBALT, AND LITHIUM - AUGUST 2023

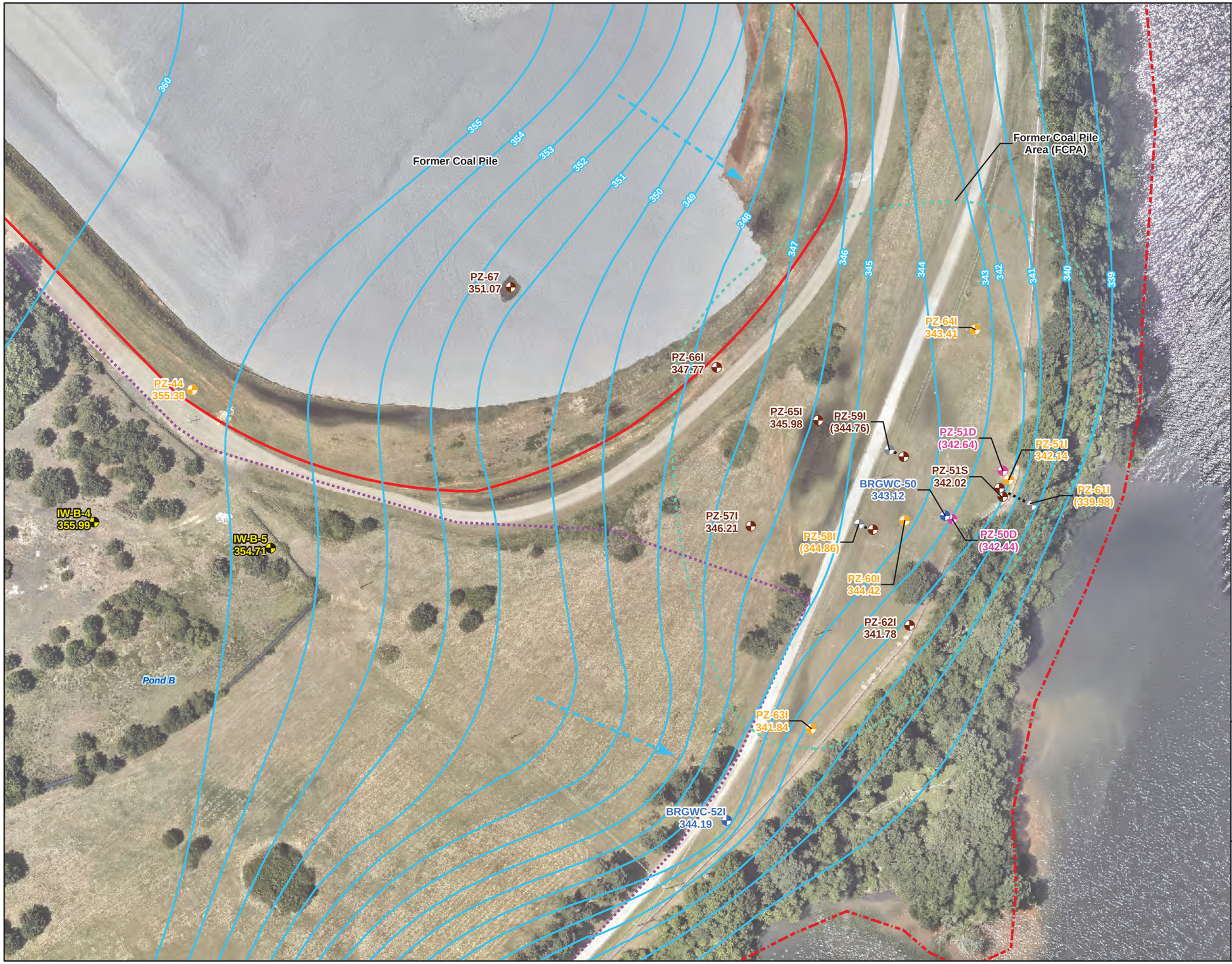
GEORGIA POWER COMPANY
PLANT BRANCH AP-BCD
PUTNAM COUNTY, GEORGIA

Prepared For: Georgia Power

Prepared By: Geosyntec consultants

KENNESAW, GA | JULY 2024

FIGURE 8



N

LEGEND

- Detection Monitoring Well
- Horizontal Assessment Monitoring Well
- Vertical Assessment Monitoring Well
- Piezometer
- Angled Well Screen
- Interstitial Piezometer
- Groundwater Elevation Iso-Contour (August 2023)
- Approximate Groundwater Flow Direction
- Plant Branch Property Boundary
- Approximate Ash Pond Boundary
- Former Coal Pile Area (FCPA)
- Approximate Extent of Former Coal Pile

Notes:
1. Water level elevation recorded on August 21, 2023, for semiannual groundwater event.
2. Elevation provided in feet (ft) referenced to the North American Vertical Datum of 1988 (NAVD 88).
3. Groundwater iso-contours based on linear interpolation and extrapolation from known groundwater elevation data, and topographic elevations.
4. Groundwater elevations in parentheses were not used to make the groundwater contours because these wells are screened at a different elevation in the formation/aquifer.
5. Coordinate System: NAD 1983 State Plane Georgia West_FIPS (U.S. Feet).
6. Property Boundary Provided by Southern Company Services.
7. Aerial: Google Earth Imagery, November 2019 and Georgia Power Company, May 2023.

0 100 200
Scale in Feet

POTENTIOMETRIC SURFACE CONTOUR MAP - AUGUST 2023

GEORGIA POWER COMPANY
PLANT BRANCH AP-BCD
PUTNAM COUNTY, GEORGIA

Prepared For: Georgia Power

Prepared By: Geosyntec consultants

KENNESAW, GA | JULY 2024

FIGURE 9

LEGEND

pH_DPT

- 3 to 4
- 4 to 5
- 5 to 6
- > 6

pH Iso-Concentration Contour (standard units)

- 3 to 4
- 4 to 5
- 5 to 6
- > 6
- Plant Branch Property Boundary
- Approximate Ash Pond Boundary
- Former Coal Pile Area (FCPA)
- Approximate Extent of Former Coal Pile

Notes:
1. DPT pH values collected in 2018. C2-02 pH value collected October 2022. Piezometer and monitoring well pH values collected between January 2023 and February 2024.
2. pH presented in standard units (s.u.)
3. * - Data reported for wells screened in the shallow aquifer were not used to generate the pH iso-concentration contour.
4. Property Boundary Provided by Southern Company Services.
5. Aerial: Google Earth Imagery, November 2019 and Georgia Power Company, May 2023.

0 200 400

Scale in Feet

AP-B AND FORMER COAL PILE PH MAP

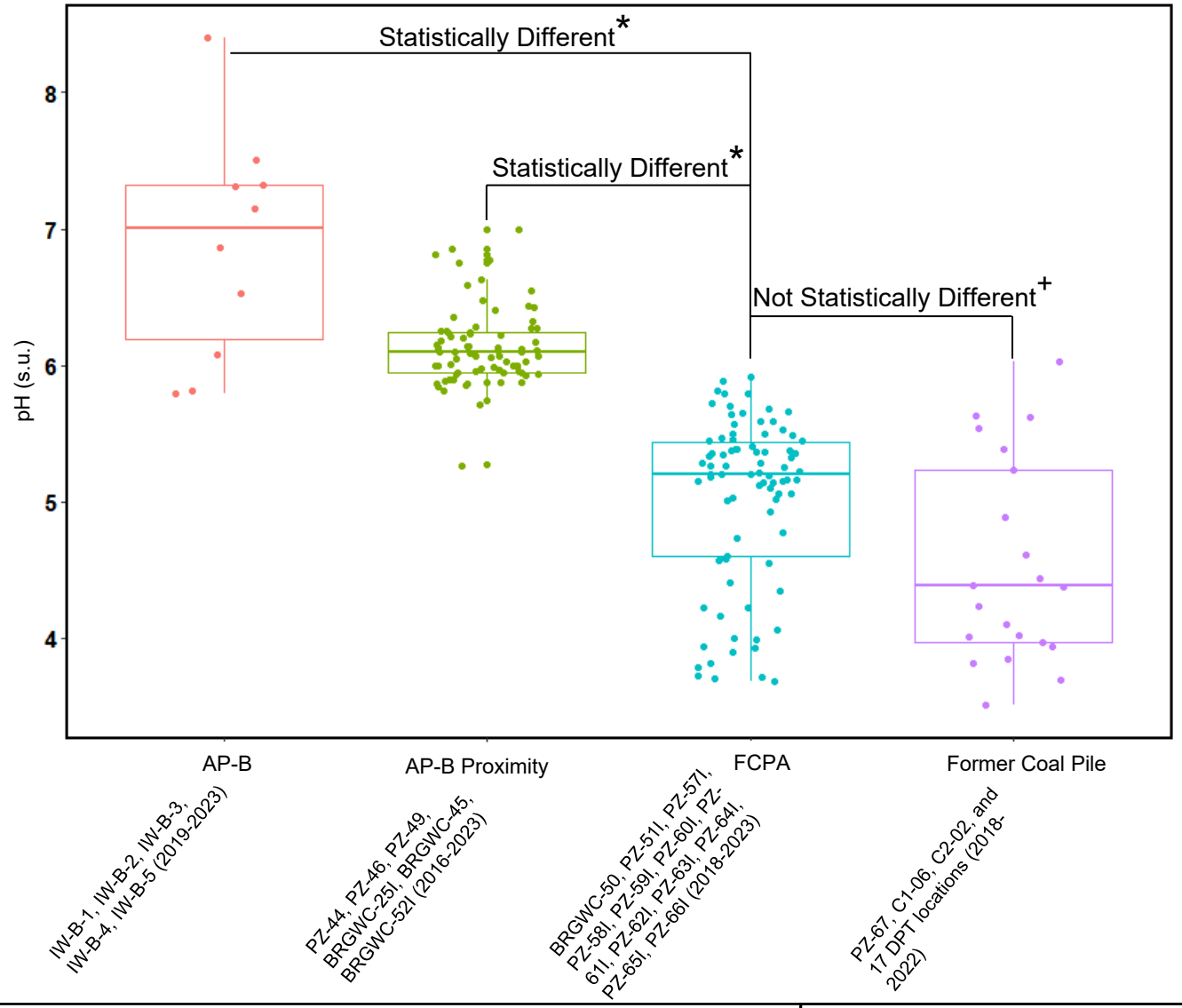
GEORGIA POWER COMPANY
PLANT BRANCH AP-BCD
PUTNAM COUNTY, GEORGIA

Prepared For: Georgia Power

Prepared By: Geosyntec consultants

KENNESAW, GA | JULY 2024

FIGURE 10



Notes:

1. FCPA = Former coal pile area
2. "*" indicates statistically significant differences between two means, while "+" indicates no statistically significant difference between groups at a 95% confidence level (Kruskal-Wallis one-way analysis of variance followed by Dunn post-hoc pairwise comparison. p-values adjusted with the Holm method).

pH Box Plots

Georgia Power Company
Plant Branch AP-BCD
Putnam County, Georgia

Prepared For: Georgia Power

Prepared By: Geosyntec consultants

KENNESAW, GA | JULY 2024

Figure 11

N

LEGEND

Sulfate (mg/L)

- < 500
- 500 - 1,000
- 1,000 - 1,500
- 1,500 - 2,000
- > 2,000
- Groundwater Elevation Iso-Contour (August 2023)
- Plant Branch Property Boundary
- Approximate Ash Pond Boundary
- Former Coal Pile Area (FCPA)
- Approximate Extent of Former Coal Pile

Notes:
1. Concentration data from groundwater samples collected during the August 2023, semiannual monitoring event. Interstitial groundwater samples collected June 5, 2023.
2. Concentrations are reported in milligrams per liter (mg/L).
3. Water level elevation recorded on August 21, 2023.
4. Elevation provided in feet (ft) referenced to the North American Vertical Datum (NAVD) 88.
5. Property Boundary Provided by Southern Company Services.
6. Aerial: Google Earth Imagery, November 2019 and Georgia Power Company, May 2023.

0 100 200
Scale in Feet

AP-BCD SULFATE CONCENTRATIONS - 2023

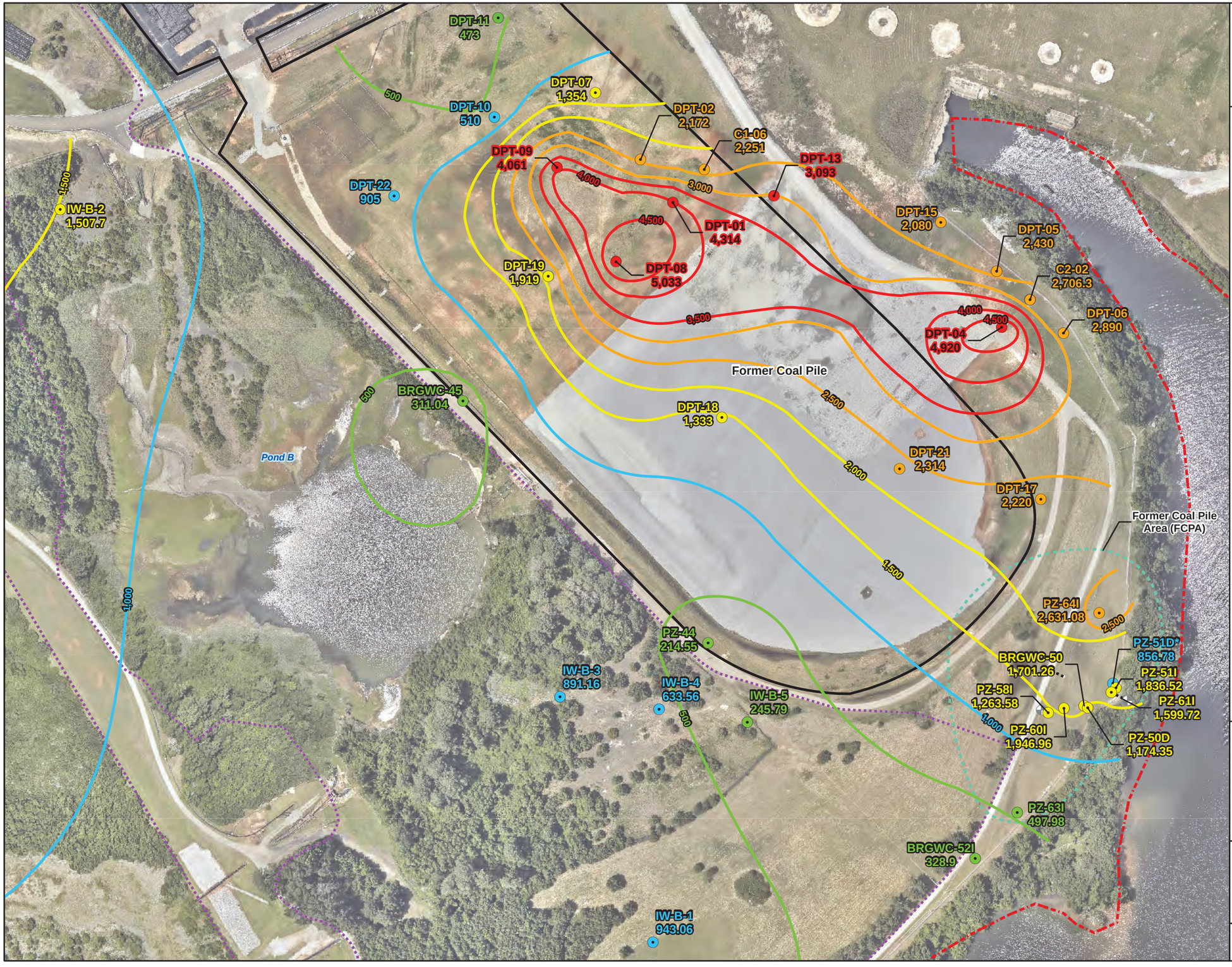
GEORGIA POWER COMPANY
PLANT BRANCH AP-BCD
PUTNAM COUNTY, GEORGIA

Prepared For: Georgia Power

Prepared By: Geosyntec consultants

KENNESAW, GA | JULY 2024

FIGURE 12



N

LEGEND

Specific Conductivity (µS/cm)

- < 500
- 500 to 1,000
- 1,000 to 2,000
- 2,000 to 3,000
- > 3,000

Specific Conductivity Iso-Concentration Contour (µS/cm)

- < 500
- 500 to 1,000
- 1,000 to 2,000
- 2,000 to 3,000
- > 3,000
- Plant Branch Property Boundary
- Approximate Ash Pond Boundary
- Former Coal Pile Area (FCPA)
- Approximate Extent of Former Coal Pile

Notes:
1. DPT Specific Conductivity (Cond) values collected in 2018. C2-02 Cond value collected October 2022. Piezometer and monitoring well Cond values collected between January 2023 and February 2024.
2. Specific Conductivity presented in micro siemens per centimeter (µS/cm).
3. * - Data not used to generate iso-concentration contour.
4. Property Boundary Provided by Southern Company Services.
5. Aerial: Google Earth Imagery, November 2019 and Georgia Power Company, May 2023.

0 200 400
Scale in Feet

AP-B AND FORMER COAL PILE SPECIFIC CONDUCTIVITY MAP

GEORGIA POWER COMPANY
PLANT BRANCH AP-BCD
PUTNAM COUNTY, GEORGIA

Prepared For: Georgia Power

Prepared By: Geosyntec consultants

KENNESAW, GA | JULY 2024

FIGURE 13

N

LEGEND

- Detection Monitoring Well
- Horizontal Assessment Monitoring Well
- Vertical Assessment Monitoring Well
- Piezometer
- Angled Well Screen
- Temporary Interstitial Well
- Dewatering Pilot Study Location
- Surface Water
- Plant Branch Property Boundary
- Approximate Ash Pond Boundary
- Former Coal Pile Area (FCPA)
- Approximate Extent of Former Coal Pile

Notes:
1. BRGWC-27I and BRGWC-32S were sampled at the request of the Georgia Environmental Protection Division (GA EPD).
2. Property Boundary Provided by Southern Company Services.
3. Aerial: Google Earth Imagery, November 2019 and Georgia Power Company, May 2023.

0 500 1,000
Scale in Feet

STABLE ISOTOPE SAMPLING LOCATIONS

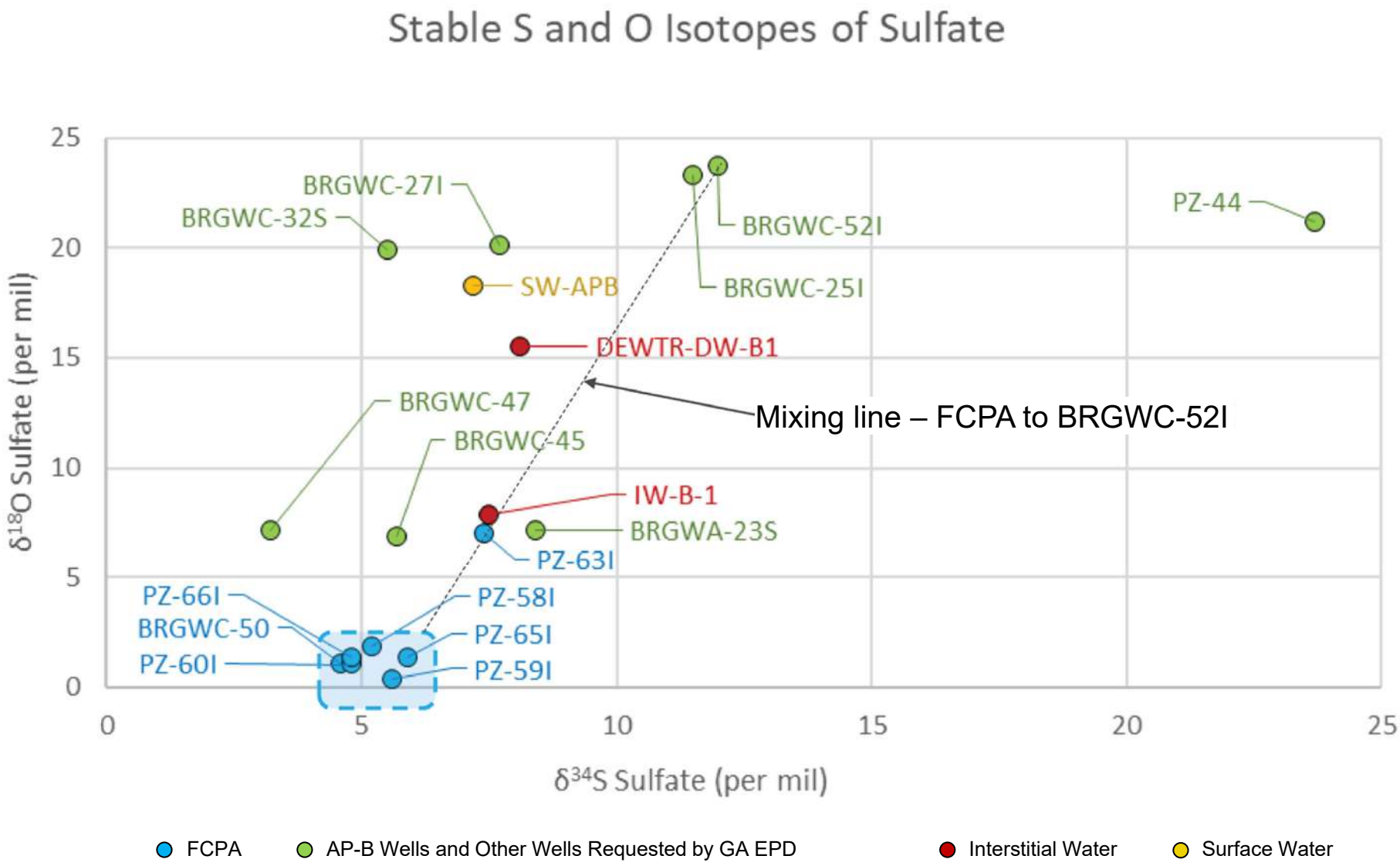
GEORGIA POWER COMPANY
PLANT BRANCH AP-BCD
PUTNAM COUNTY, GEORGIA

Prepared For: Georgia Power

Prepared By: Geosyntec consultants

KENNESAW, GA | JULY 2024

FIGURE 14



Notes:
1. Full Report by Arcadis in Appendix E (2024).
2. FCPA = Former coal pile area

Stable Isotopes of Sulfur and Oxygen

Georgia Power Company
Plant Branch AP-BCD
Putnam County, Georgia

Prepared For: Georgia Power

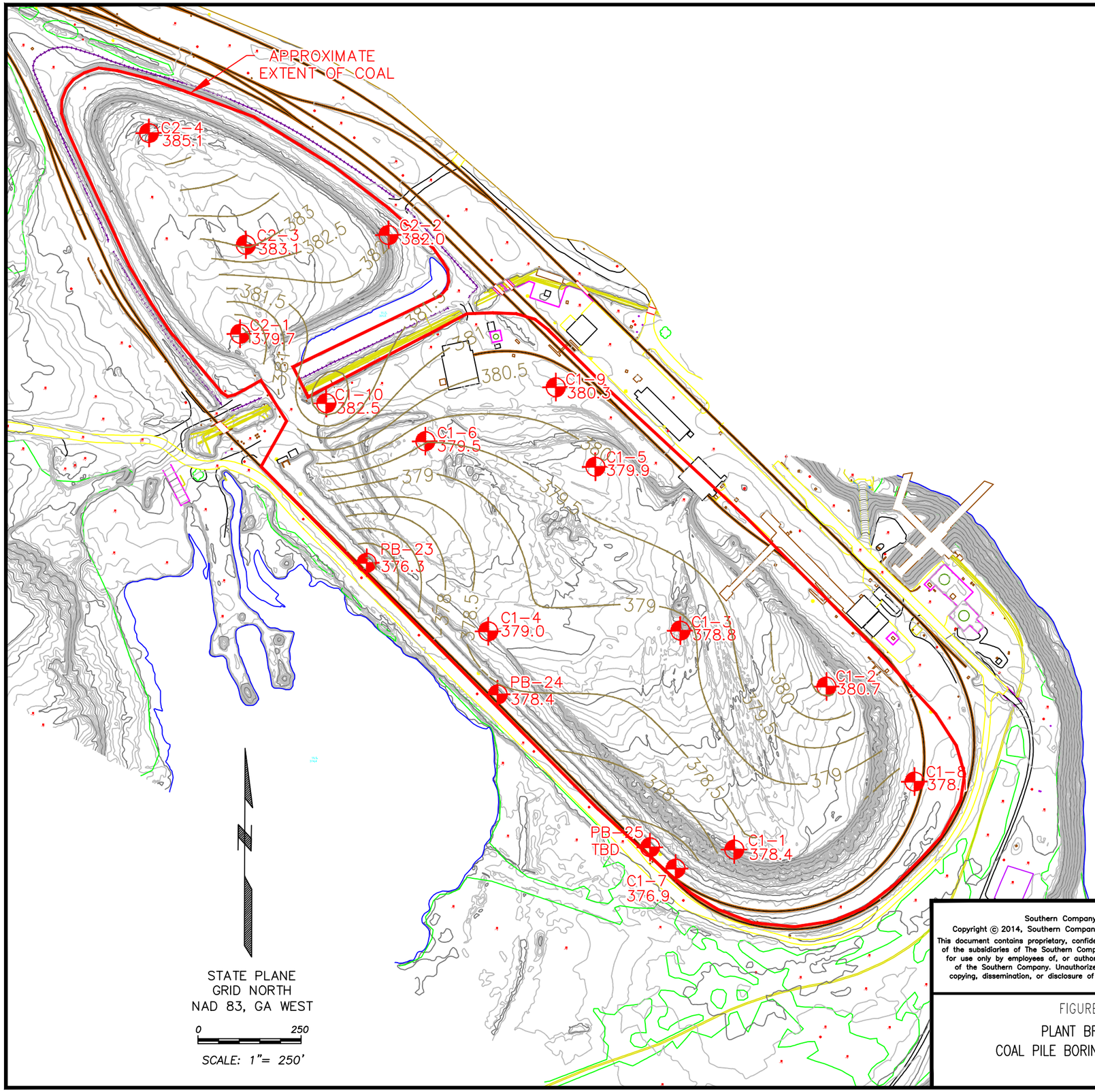
Prepared By: Geosyntec consultants

KENNESAW, GA | JULY 2024

Figure 15

APPENDIX A

Monitoring Well Construction Logs



Legend:

C1–1 378.4 Boring location and name
Coal Pile Bottom including coal/soil mix

Approximate extent of coal

AS OF AUGUST 12 AND 13, 2014

	PLANT GRID		GA NAD83 WEST		
PT#	North	East	North	East	Elev.
C1-1	4451.44	7740.28	1161816.43	2561712.32	383.41
C1-2	4897.08	7826.43	1162211.52	2561935.74	402.66
C1-3	4912.79	7447.45	1162346.97	2561581.45	400.75
C1-4	4763.20	7006.62	1162345.36	2561115.93	383.97
C1-5	5223.74	7126.05	1162744.00	2561375.65	414.88
C1-6	5151.32	6715.63	1162805.89	2560963.51	382.00
C1-7	4362.55	7619.94	1161770.43	2561569.95	380.10
C1-8	4746.57	8102.21	1161981.10	2562149.32	381.14
C1-9	5376.01	6973.51	1162936.88	2561279.47	382.31
C1-10	5162.24	6458.45	1162898.05	2560723.17	383.51
C2-1	5255.19	6207.10	1163066.12	2560514.44	383.72
C2-2	5596.79	6471.82	1163305.78	2560874.07	383.53
C2-3	5463.95	6151.56	1163281.71	2560528.19	386.11
C2-4	5646.35	5842.78	1163552.86	2560293.47	387.11
PB-23	4826.79	6674.43	1162511.33	2560821.22	381.28
PB-24	4625.20	7076.79	1162192.22	2561138.56	381.35
PB-25			1161822.15 tbd	2561508.14 tbd	

Note:
1. C1–7, C1–8, C1–9, C1–10 are hyro–excavated locations
2. PB–2B, PB–24, PB–25 performed by Golder Associates Inc.
3. Figure topography is dated as of 01/16/2014

BY	CHK'D	DATE
ASF	ARC	09/02/2014

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FIGURE 1
PLANT BRANCH
COAL PILE BORING LOCATIONS

Southern Company Generation
Engineering and Construction Services
FOR
Georgia Power Company

SCALE	DRAWING NUMBER	SHEET	CONT'D	REV
1"= 250'	ES2374	1	FINAL	0

ANSI B: 17x11 CIVIL 2013

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DRILLING LOG
GEOLOGICAL SERVICES

Hole No. C1-1
Sheet 1 of 1

SITE	Plant Branch Coal Pile			HOLE DEPTH	10'	SURF.ELEV.	383.4
LOCATION	Milledgeville, GA			COORDINATES N	1161816.43	E	2561712.32
ANGLE	0	BEARING	0	CONTRACTOR	SC Services	DRILL NO.	CME550
DRILLING METHOD	Hollow Stem Auger			NO. SAMPLES	0	NO. U.D. SAMPLES	0
CASING SIZE	NA	LENGTH	NA	CORE SIZE	NA	TOTAL % REC.	NA
WATER TABLE DEPTH	DRY	ELEV.		TIME AFTER COMP.	End +1 hrs	DATE TAKEN	8/12/2014
TYPE GROUT	Drill Cuttings	QUANTITY	NA	MIX	NA	DRILLING START DATE	8/12/2014
DRILLER	S. Milam	RECORDER	S. Baxter	APPROVED	C. Sellers	DRILLING COMP. DATE	8/12/2014

Depth	Elev.	Material Description, Classification and Remarks	Sample No.	Standard Penetration Test From To	Blows	N	Comments	% Rec	RQD
0	383.40								
1	382.40	COAL							
2	381.40								
3	380.40								
4	379.40								
5	378.40	4.5-5.0'- COAL/SOIL mix zone							
6	377.40	brown sandy SILT (ML), moist, fine to very coarse grained, mottled orange, well graded, micaceous, weathered quartz gravel					NATIVE SAPROLITE		
7	376.40								
8	375.40								
9	374.40								
10	373.40								
11	372.40	10'- Bottom of boring					Boring terminated 5 ft into "clean" native soil		
12	371.40								
13	370.40								
14	369.40								
15	368.40								
16	367.40								
17	366.40								
18	365.40								
19	364.40								
20	363.40								
21	362.40								
22	361.40								
23	360.40								
24	359.40								

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DRILLING LOG
GEOLOGICAL SERVICES

Hole No. C1-2
Sheet 1 of 2

SITE	Plant Branch Coal Pile			HOLE DEPTH	30'	SURF.ELEV.	402.7
LOCATION	Milledgeville, GA		COORDINATES N	1162211.52	E	2561935.74	
ANGLE	0	BEARING	0	CONTRACTOR	SC Services	DRILL NO.	CME550
DRILLING METHOD	Hollow Stem Auger		NO. SAMPLES	0	NO. U.D. SAMPLES	0	
CASING SIZE	NA	LENGTH	NA	CORE SIZE	NA	TOTAL % REC.	NA
WATER TABLE DEPTH	29.4'	ELEV.		TIME AFTER COMP.	End +1 hrs	DATE TAKEN	8/12/2014
TYPE GROUT	Drill Cuttings	QUANTITY	NA	MIX	NA	DRILLING START DATE	8/12/2014
DRILLER	S. Milam	RECORDER	S. Baxter	APPROVED	C. Sellers	DRILLING COMP. DATE	8/12/2014

Depth	Elev.	Material Description, Classification and Remarks	Sample No.	Standard Penetration Test From To	Blows	N	Comments	% Rec	RQD
0	402.70								
1	401.70	COAL					Blind bore to 20 ft		
2	400.70								
3	399.70								
4	398.70								
5	397.70								
6	396.70								
7	395.70								
8	394.70								
9	393.70								
10	392.70								
11	391.70								
12	390.70								
13	389.70								
14	388.70								
15	387.70								
16	386.70								
17	385.70								
18	384.70								
19	383.70								
20	382.70								
21	381.70								
22	380.70	21-22'- COAL/SOIL mix zone							
23	379.70	red silty CLAY (CL), wet, relatively stiff, micaceous, trace gravel							
24	378.70								

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DRILLING LOG
GEOLOGICAL SERVICES

Hole No. C1-2
Sheet 2 of 2

SITE: Plant Branch Coal Pile — Milledgeville, GA
TOTAL DEPTH: 30'
SURF.ELEV.: 402.7

Depth	Elev.	Material Description, Classification and Remarks	Sample No.	Standard Penetration Test From To	Standard Penetration Test Blows	N	Comments	% Rec	RQD
25	377.70	red silty CLAY (CL), wet, mottled orange, micaceous, trace gravel							
26	376.70								
27	375.70								
28	374.70								
29	373.70								
30	372.70								
31	371.70	30' - Bottom of boring					Boring terminated 5 ft into "clean" native soil		
32	370.70								
33	369.70								
34	368.70								
35	367.70								
36	366.70								
37	365.70								
38	364.70								
39	363.70								
40	362.70								
41	361.70								
42	360.70								
43	359.70								
44	358.70								
45	357.70								
46	356.70								
47	355.70								
48	354.70								
49	353.70								
50	352.70								
51	351.70								
52	350.70								
53	349.70								
54	348.70								
55	347.70								
56	346.70								

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DRILLING LOG
GEOLOGICAL SERVICES

Hole No. C1-3
Sheet 1 of 2

SITE	Plant Branch Coal Pile			HOLE DEPTH	30'	SURF.ELEV.	400.8
LOCATION	Milledgeville, GA			COORDINATES N	1162346.97	E	2561581.45
ANGLE	0	BEARING	0	CONTRACTOR	SC Services	DRILL NO.	CME550
DRILLING METHOD	Hollow Stem Auger			NO. SAMPLES	0	NO. U.D. SAMPLES	0
CASING SIZE	NA	LENGTH	NA	CORE SIZE	NA	TOTAL % REC.	NA
WATER TABLE DEPTH	DRY	ELEV.		TIME AFTER COMP.	End +1 hrs	DATE TAKEN	8/12/2014
TYPE GROUT	Drill Cuttings	QUANTITY	NA	MIX	NA	DRILLING START DATE	8/12/2014
DRILLER	S. Milam	RECORDER	S. Baxter	APPROVED	C. Sellers	DRILLING COMP. DATE	8/12/2014

Depth	Elev.	Material Description, Classification and Remarks	Sample No.	Standard Penetration Test From To	Blows	N	Comments	% Rec	RQD
0	400.80								
1	399.80	COAL					Blind bore to 20 ft		
2	398.80								
3	397.80								
4	396.80								
5	395.80								
6	394.80								
7	393.80								
8	392.80								
9	391.80								
10	390.80								
11	389.80								
12	388.80								
13	387.80								
14	386.80								
15	385.80								
16	384.80								
17	383.80								
18	382.80								
19	381.80								
20	380.80								
21	379.80	20-22'- COAL/SOIL mix zone							
22	378.80								
23	377.80	brown sandy SILT (ML), moist, coarse to fine grained, mottled orange and white, well graded, micaceous, trace pwrf					NATIVE SOIL		
24	376.80								

Updated 1/4/2012

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DRILLING LOG
GEOLOGICAL SERVICES

Hole No. C1-3
Sheet 2 of 2

SITE: Plant Branch Coal Pile — TOTAL DEPTH: 30' — SURF.ELEV.: 400.8
Milledgeville, GA

Depth	Elev.	Material Description, Classification and Remarks	Sample No.	Standard Penetration Test From To	Blows	N	Comments	% Rec	RQD
25	375.80	brown sandy SILT (ML), moist, fine to very coarse grained, mottled orange and white, well graded, micaceous, trace pwrf					SAPROLITE		
26	374.80								
27	373.80								
28	372.80								
29	371.80								
30	370.80								
31	369.80	30' - Bottom of boring					Boring terminated 5 ft into "clean" native soil		
32	368.80								
33	367.80								
34	366.80								
35	365.80								
36	364.80								
37	363.80								
38	362.80								
39	361.80								
40	360.80								
41	359.80								
42	358.80								
43	357.80								
44	356.80								
45	355.80								
46	354.80								
47	353.80								
48	352.80								
49	351.80								
50	350.80								
51	349.80								
52	348.80								
53	347.80								
54	346.80								
55	345.80								
56	344.80								

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DRILLING LOG
GEOLOGICAL SERVICES

Hole No. C1-4
Sheet 1 of 1

SITE	Plant Branch Coal Pile			HOLE DEPTH	10'	SURF.ELEV.	384.0
LOCATION	Milledgeville, GA			COORDINATES N	1162345.36	E	2561115.93
ANGLE	0	BEARING	0	CONTRACTOR	SC Services	DRILL NO.	CME550
DRILLING METHOD	Hollow Stem Auger			NO. SAMPLES	0	NO. U.D. SAMPLES	0
CASING SIZE	NA	LENGTH	NA	CORE SIZE	NA	TOTAL % REC.	NA
WATER TABLE DEPTH	DRY	ELEV.		TIME AFTER COMP.	End +1 hrs	DATE TAKEN	8/13/2014
TYPE GROUT	Drill Cuttings	QUANTITY	NA	MIX	NA	DRILLING START DATE	8/13/2014
DRILLER	S. Milam	RECORDER	S. Baxter	APPROVED	C. Sellers	DRILLING COMP. DATE	8/13/2014

Depth	Elev.	Material Description, Classification and Remarks	Sample No.	Standard Penetration Test From To	Blows	N	Comments	% Rec	RQD
0	384.00								
1	383.00	COAL							
2	382.00								
3	381.00								
4	380.00								
5	379.00								
6	378.00	brown sandy SILT (ML), moist, fine to very coarse grained, mottled orange, well graded, micaceous,					NATIVE SAPROLITE		
7	377.00	weathered quartz gravel, trace red silty clay in upper portion							
8	376.00								
9	375.00								
10	374.00								
11	373.00	10'- Bottom of boring					Boring terminated 5 ft into "clean" native soil		
12	372.00								
13	371.00								
14	370.00								
15	369.00								
16	368.00								
17	367.00								
18	366.00								
19	365.00								
20	364.00								
21	363.00								
22	362.00								
23	361.00								
24	360.00								

SOUTHERN COMPANY
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DRILLING LOG
GEOLOGICAL SERVICES

Hole No. C1-5
Sheet 1 of 2

SITE	Plant Branch Coal Pile			HOLE DEPTH	40'	SURF.ELEV.	414.9
LOCATION	Milledgeville, GA		COORDINATES N	1162744.00	E	2561375.65	
ANGLE	0	BEARING	0	CONTRACTOR	SC Services	DRILL NO.	CME550
DRILLING METHOD	Hollow Stem Auger		NO. SAMPLES	0	NO. U.D. SAMPLES	0	
CASING SIZE	NA	LENGTH	NA	CORE SIZE	NA	TOTAL % REC.	NA
WATER TABLE DEPTH	39.5'	ELEV.		TIME AFTER COMP.	End +2 hrs	DATE TAKEN	8/12/2014
TYPE GROUT	Drill Cuttings	QUANTITY	NA	MIX	NA	DRILLING START DATE	8/12/2014
DRILLER	S. Milam	RECORDER	S. Baxter	APPROVED	C. Sellers	DRILLING COMP. DATE	8/12/2014

Depth	Elev.	Material Description, Classification and Remarks	Sample No.	Standard Penetration Test From To	Blows	N	Comments	% Rec	RQD
0	414.90								
1	413.90	COAL					Blind bore to 35 ft, missed coal/soil interface. Offset five feet then redrilled to 25 ft for spoon.		
2	412.90								
3	411.90								
4	410.90								
5	409.90								
6	408.90								
7	407.90								
8	406.90								
9	405.90								
10	404.90								
11	403.90								
12	402.90								
13	401.90								
14	400.90								
15	399.90								
16	398.90								
17	397.90								
18	396.90								
19	395.90								
20	394.90								
21	393.90								
22	392.90								
23	391.90								
24	390.90								

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DRILLING LOG
GEOLOGICAL SERVICES

Hole No. C1-5
Sheet 2 of 2

SITE: Plant Branch Coal Pile, Milledgeville, GA
TOTAL DEPTH: 40'
SURF.ELEV.: 414.9

Depth	Elev.	Material Description, Classification and Remarks	Sample No.	Standard Penetration Test From To	Blows	N	Comments	% Rec	RQD
25	389.90								
26	388.90								
27	387.90								
28	386.90								
29	385.90								
30	384.90								
31	383.90								
32	382.90								
33	381.90								
34	380.90								
35	379.90	34.5-35.0'- COAL/SOIL mix zone							
36	378.90	brown sandy SILT (ML), moist, fine grained, slight orange and white mottle, well graded, micaceous, trace red silty clay					NATIVE SOIL		
37	377.90								
38	376.90								
39	375.90	brown sandy SILT (ML), moist, coarse to fine grained, mottled orange and white, well graded, micaceous, trace pwrf							
40	374.90								
41	373.90	40'- Bottom of boring					Boring terminated 5 ft into "clean" native soil		
42	372.90								
43	371.90								
44	370.90								
45	369.90								
46	368.90								
47	367.90								
48	366.90								
49	365.90								
50	364.90								
51	363.90								
52	362.90								
53	361.90								
54	360.90								
55	359.90								
56	358.90								

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DRILLING LOG
GEOLOGICAL SERVICES

Hole No. C1-6
Sheet 1 of 1

SITE	Plant Branch Coal Pile			HOLE DEPTH	10'	SURF.ELEV.	382.0
LOCATION	Milledgeville, GA			COORDINATES N	1162805.89	E	2560963.51
ANGLE	0	BEARING	0	CONTRACTOR	SC Services	DRILL NO.	CME550
DRILLING METHOD	Hollow Stem Auger	NO. SAMPLES	0	NO. U.D. SAMPLES	0		
CASING SIZE	NA	LENGTH	NA	CORE SIZE	NA	TOTAL % REC.	NA
WATER TABLE DEPTH	9.5'	ELEV.		TIME AFTER COMP.	End +1 hrs	DATE TAKEN	8/13/2014
TYPE GROUT	Drill Cuttings	QUANTITY	NA	MIX	NA	DRILLING START DATE	8/13/2014
DRILLER	S. Milam	RECORDER	S. Baxter	APPROVED	C. Sellers	DRILLING COMP. DATE	8/13/2014

Depth	Elev.	Material Description, Classification and Remarks	Sample No.	Standard Penetration Test From To	Blows	N	Comments	% Rec	RQD
0	382.00								
1	381.00	COAL							
2	380.00								
		2.0-2.5'- COAL/SOIL mix zone							
3	379.00	red silty CLAY (CL), moist, mottled orange, micaceous, trace pwrf							
4	378.00								
5	377.00								
6	376.00	red brown sandy clayey SILT (ML), moist, fine to very coarse grained, mottled orange, well graded, micaceous, trace weathered quartz gravel					NATIVE SAPROLITE		
7	375.00								
8	374.00								
9	373.00								
10	372.00								
11	371.00	10'- Bottom of boring					Boring terminated 5 ft into "clean" native soil		
12	370.00								
13	369.00								
14	368.00								
15	367.00								
16	366.00								
17	365.00								
18	364.00								
19	363.00								
20	362.00								
21	361.00								
22	360.00								
23	359.00								
24	358.00								

2012 GEOTECH ENGINEERING LOGS - ESEE2012DATABASE.GDT - 9/2/14 13:38 - S:\WORKGROUPS\SCS ENGINEERING\TECHNICAL SERVICES\EARTH SCIENCES AND ENVIRONMENTAL ENGINEERING\ESEE MAJOR PROJECTS\PROJECTS\BRANCH\2014\ES237-

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LOG OF TEST BORING

BORING C1-7
PAGE 1 OF 1
ES2374

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Plant Branch Coal Pile Decommissioning
LOCATION Milledgeville, GA

DATE STARTED 7/31/2014 **COMPLETED** 7/31/2014 **SURF. ELEV.** 380.1 **COORDINATES:** N:1,161,770.43 E:2,561,569.95
CONTRACTOR Badger **EQUIPMENT** _____ **METHOD** Hydro-Excavate
DRILLED BY C. Williams **LOGGED BY** A. Crooks **CHECKED BY** _____ **ANGLE** _____ **BEARING** _____
BORING DEPTH 4 ft. **GROUND WATER DEPTH: DURING** _____ **COMP.** _____ **DELAYED** _____
NOTES _____

DEPTH (ft)	GRAPHIC LOG	STRATA DESCRIPTION	ELEV.	SAMPLE TYPE NUMBER	SAMPLE DEPTH (ft.)	BLOW COUNTS (N-VALUE) / PERCENT RECOVERY (RQD)	COMMENTS
1		**Coal (FILL)** - black - Coal with orange silty soil with sand, low plasticity, some mica - Coal with tan silty sand, with mica					COAL 0 ft. to 0.5 ft. COAL/SOIL mix 0.5 ft. to 3.25 ft.
2							
3			376.9				
4		**Silty Sand (SM)** - tan, with mica	376.1				

Bottom of borehole at 4.0 feet.

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LOG OF TEST BORING

BORING C1-8
PAGE 1 OF 1
ES2374

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Plant Branch Coal Pile Decommissioning
LOCATION Milledgeville, GA

DATE STARTED 7/31/2014 **COMPLETED** 7/31/2014 **SURF. ELEV.** 381.1 **COORDINATES:** N:1,161,981.10 E:2,562,149.32
CONTRACTOR Badger **EQUIPMENT** **METHOD** Hydro-Excavate
DRILLED BY C. Williams **LOGGED BY** A. Crooks **CHECKED BY** **ANGLE** **BEARING**
BORING DEPTH 4.3 ft. **GROUND WATER DEPTH: DURING** **COMP.** **DELAYED**
NOTES

DEPTH (ft)	GRAPHIC LOG	STRATA DESCRIPTION	ELEV.	SAMPLE TYPE NUMBER	SAMPLE DEPTH (ft.)	BLOW COUNTS (N-VALUE) / PERCENT RECOVERY (RQD)	COMMENTS
1		**Coal (FILL)** - black					COAL 0 ft. to 1 ft.
2		- Coal with some soil mix					COAL/SOIL mix 1 ft. to 3 ft.
3			378.1				
4		**Silt (ML)** - orange and tanish brown, low plasticity, with sand - trace organics (roots)	376.8				

Bottom of borehole at 4.3 feet.

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LOG OF TEST BORING

BORING C1-9
PAGE 1 OF 1
ES2374

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Plant Branch Coal Pile Decommissioning
LOCATION Milledgeville, GA

DATE STARTED 7/31/2014 **COMPLETED** 7/31/2014 **SURF. ELEV.** 382.3 **COORDINATES:** N:1,162,936.88 E:2,561,279.47
CONTRACTOR Badger **EQUIPMENT** _____ **METHOD** Hydro-Excavate
DRILLED BY C. Williams **LOGGED BY** A. Crooks **CHECKED BY** _____ **ANGLE** _____ **BEARING** _____
BORING DEPTH 4.5 ft. **GROUND WATER DEPTH: DURING** _____ **COMP.** _____ **DELAYED** _____
NOTES _____

DEPTH (ft)	GRAPHIC LOG	STRATA DESCRIPTION (ELEV.)	SAMPLE TYPE NUMBER	SAMPLE DEPTH (ft.)	BLOW COUNTS (N-VALUE) / PERCENT RECOVERY (RQD)	COMMENTS
1		**Coal (FILL)** - black				COAL 0 ft. to 1 ft.
2		- mixed with sand 380.3				COAL/SOIL mix 1 ft. to 2 ft.
3		**Silty Sand (SM)** - tan, coarse grain, very micatious				
4		377.8				

Bottom of borehole at 4.5 feet.

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LOG OF TEST BORING

BORING C1-10
PAGE 1 OF 1
ES2374

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Plant Branch Coal Pile Decommissioning
LOCATION Milledgeville, GA

DATE STARTED 7/31/2014 **COMPLETED** 7/31/2014 **SURF. ELEV.** 383.5 **COORDINATES:** N:1,162,898.05 E:2,560,723.17
CONTRACTOR Badger **EQUIPMENT** _____ **METHOD** Hydro-Excavate
DRILLED BY C. Williams **LOGGED BY** A. Crooks **CHECKED BY** _____ **ANGLE** _____ **BEARING** _____
BORING DEPTH 5 ft. **GROUND WATER DEPTH: DURING** _____ **COMP.** _____ **DELAYED** _____
NOTES _____

DEPTH (ft)	GRAPHIC LOG	STRATA DESCRIPTION	ELEV.	SAMPLE TYPE NUMBER	SAMPLE DEPTH (ft.)	BLOW COUNTS (N-VALUE) / PERCENT RECOVERY (RQD)	COMMENTS
1		**Coal (FILL)** - black - some silty soil	382.5				COAL 0 ft. to 0.5 ft. COAL/SOIL mix 0.5 ft. to 1 ft.
2		**Silt (ML)** - red brown, with trace COAL pieces	381.5				
3		- red brown, with sand, some mica					
4							
5			378.5				

Bottom of borehole at 5.0 feet.

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DRILLING LOG
GEOLOGICAL SERVICES

Hole No. C2-1
Sheet 1 of 1

SITE	Plant Branch Coal Pile			HOLE DEPTH	10'	SURF.ELEV.	383.7
LOCATION	Milledgeville, GA			COORDINATES N	1163066.12	E	2560514.44
ANGLE	0	BEARING	0	CONTRACTOR	SC Services	DRILL NO.	CME550
DRILLING METHOD	Hollow Stem Auger			NO. SAMPLES	0	NO. U.D. SAMPLES	0
CASING SIZE	NA	LENGTH	NA	CORE SIZE	NA	TOTAL % REC.	NA
WATER TABLE DEPTH	DRY	ELEV.		TIME AFTER COMP.	End +1 hrs	DATE TAKEN	8/13/2014
TYPE GROUT	Drill Cuttings	QUANTITY	NA	MIX	NA	DRILLING START DATE	8/13/2014
DRILLER	S. Milam	RECORDER	S. Baxter	APPROVED	C. Sellers	DRILLING COMP. DATE	8/13/2014

Depth	Elev.	Material Description, Classification and Remarks	Sample No.	Standard Penetration Test From To	Blows	N	Comments	% Rec	RQD
0	383.70								
1	382.70	COAL							
2	381.70								
3	380.70	1.0-4.0'- COAL/SOIL mix zone, red silty CLAY (CL), moist, mottled orange, micaceous, trace coal							
4	379.70								
5	378.70	gray sandy SILT (ML), moist, fine to very coarse grained, mottled orange, well graded, micaceous, trace white quartz							
6	377.70						NATIVE SAPROLITE		
7	376.70						Sample lost 5-10'		
8	375.70								
9	374.70								
10	373.70								
11	372.70	10'- Bottom of boring					Boring terminated 5 ft into "clean" native soil		
12	371.70								
13	370.70								
14	369.70								
15	368.70								
16	367.70								
17	366.70								
18	365.70								
19	364.70								
20	363.70								
21	362.70								
22	361.70								
23	360.70								
24	359.70								

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DRILLING LOG
GEOLOGICAL SERVICES

Hole No. C2-2
Sheet 1 of 1

SITE	Plant Branch Coal Pile			HOLE DEPTH	8.3'	SURF.ELEV.	383.5
LOCATION	Milledgeville, GA			COORDINATES N	1163305.78	E	2560874.07
ANGLE	0	BEARING	0	CONTRACTOR	SC Services	DRILL NO.	CME550
DRILLING METHOD	Hollow Stem Auger			NO. SAMPLES	0	NO. U.D. SAMPLES	0
CASING SIZE	NA	LENGTH	NA	CORE SIZE	NA	TOTAL % REC.	NA
WATER TABLE DEPTH	8.0'	ELEV.		TIME AFTER COMP.	End +1 hrs	DATE TAKEN	8/13/2014
TYPE GROUT	Drill Cuttings	QUANTITY	NA	MIX	NA	DRILLING START DATE	8/13/2014
DRILLER	S. Milam	RECORDER	S. Baxter	APPROVED	C. Sellers	DRILLING COMP. DATE	8/13/2014

Depth	Elev.	Material Description, Classification and Remarks	Sample No.	Standard Penetration Test From To	Blows	N	Comments	% Rec	RQD
0	383.50								
1	382.50	COAL							
		1.0-1.5'- COAL/SOIL mix zone							
2	381.50	brown sandy SILT (ML), moist, fine to very coarse							
3	380.50	grained, mottled orange, well graded, micaceous, trace pwrf					NATIVE SAPROLITE		
4	379.50								
5	378.50								
6	377.50	brown sandy SILT (ML), moist, fine to very coarse grained, mottled orange, well graded, micaceous, trace pwrf							
7	376.50								
8	375.50								
9	374.50	8.3'- Bottom of boring					Auger refusal at 8.3' in "clean" native soil		
10	373.50								
11	372.50								
12	371.50								
13	370.50								
14	369.50								
15	368.50								
16	367.50								
17	366.50								
18	365.50								
19	364.50								
20	363.50								
21	362.50								
22	361.50								
23	360.50								
24	359.50								

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DRILLING LOG
GEOLOGICAL SERVICES

Hole No. C2-3
Sheet 1 of 1

SITE: Plant Branch Coal Pile | HOLE DEPTH: 10' | SURF.ELEV.: 386.1
LOCATION: Milledgeville, GA | COORDINATES N: 1163281.71 | E: 2560528.19
ANGLE: 0 | BEARING: 0 | CONTRACTOR: SC Services | DRILL NO.: CME550
DRILLING METHOD: Hollow Stem Auger | NO. SAMPLES: 0 | NO. U.D. SAMPLES: 0
CASING SIZE: NA | LENGTH: NA | CORE SIZE: NA | TOTAL % REC.: NA
WATER TABLE DEPTH: DRY | ELEV.: | TIME AFTER COMP.: End +1 hrs | DATE TAKEN: 8/13/2014
TYPE GROUT: Drill Cuttings | QUANTITY: NA | MIX: NA | DRILLING START DATE: 8/13/2014
DRILLER: S. Milam | RECORDER: S. Baxter | APPROVED: C. Sellers | DRILLING COMP. DATE: 8/13/2014

Depth	Elev.	Material Description, Classification and Remarks	Sample No.	Standard Penetration Test From To	Blows	N	Comments	% Rec	RQD
0	386.10								
1	385.10	COAL							
2	384.10								
3	383.10	2.0-3.0'- COAL/SOIL mix zone							
4	382.10	red silty CLAY (CL), moist, mottled red, micaceous, trace pwrf							
5	381.10								
6	380.10	brown sandy SILT (ML), wet, medium to very coarse grained, well graded, micaceous, trace pwrf					NATIVE SAPROLITE		
7	379.10								
8	378.10								
9	377.10								
10	376.10								
11	375.10	10'- Bottom of boring					Boring terminated 5 ft into "clean" native soil		
12	374.10								
13	373.10								
14	372.10								
15	371.10								
16	370.10								
17	369.10								
18	368.10								
19	367.10								
20	366.10								
21	365.10								
22	364.10								
23	363.10								
24	362.10								

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DRILLING LOG
GEOLOGICAL SERVICES

Hole No. C2-4
Sheet 1 of 1

SITE	Plant Branch Coal Pile			HOLE DEPTH	10'	SURF.ELEV.	387.1
LOCATION	Milledgeville, GA		COORDINATES N	1163552.86	E	2560293.47	
ANGLE	0	BEARING	0	CONTRACTOR	SC Services	DRILL NO.	CME550
DRILLING METHOD	Hollow Stem Auger		NO. SAMPLES	0	NO. U.D. SAMPLES	0	
CASING SIZE	NA	LENGTH	NA	CORE SIZE	NA	TOTAL % REC.	NA
WATER TABLE DEPTH	DRY	ELEV.		TIME AFTER COMP.	End +1 hrs	DATE TAKEN	8/13/2014
TYPE GROUT	Drill Cuttings	QUANTITY	NA	MIX	NA	DRILLING START DATE	8/13/2014
DRILLER	S. Milam	RECORDER	S. Baxter	APPROVED	C. Sellers	DRILLING COMP. DATE	8/13/2014

Depth	Elev.	Material Description, Classification and Remarks	Sample No.	Standard Penetration Test From To	Blows	N	Comments	% Rec	RQD
0	387.10								
1	386.10	COAL							
2	385.10	1.0-2.0'- COAL/SOIL mix zone							
3	384.10	brown silty SAND (SM), moist, fine to very coarse grained, mottled orange, micaceous, trace pwrf					NATIVE SAPROLITE		
4	383.10								
5	382.10								
6	381.10	brown sandy SILT (ML), moist, fine to coarse grained, mottled orange, micaceous, trace pwrf and white quartz							
7	380.10								
8	379.10								
9	378.10								
10	377.10								
11	376.10	10'- Bottom of boring					Boring terminated 5 ft into "clean" native soil		
12	375.10								
13	374.10								
14	373.10								
15	372.10								
16	371.10								
17	370.10								
18	369.10								
19	368.10								
20	367.10								
21	366.10								
22	365.10								
23	364.10								
24	363.10								

Location resurveyed June - July 2020

BORING BRGWA-2S/PZ-02 S

BORING LOG

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Plant Branch Hydrogeologic Study

LOCATION Milledgeville, GA

DATE STARTED 4/2/2014 **COMPLETED** 4/2/2014 **GROUND ELEVATION** 440.4 ft **COORDINATES** N 1167139.7 E 2549952.6

CONTRACTOR SCS Field Services **METHOD** Hollow Stem Auger **EQUIPMENT** CME 550

DRILLED BY S. Denty **LOGGED BY** W. Shaughnessy **CHECKED BY** _____ **BORING DEPTH** 44.6 ft.

GROUND WATER DEPTH: DURING _____ **COMP.** _____ **DELAYED** 10.2 ft. after 288 hrs.

NOTES _____

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION	Natural Gamma (75 / 150 / 225)	WELL DATA (Top of casing Elev. = 443.20)
0			440.4		
5		See PZ-02 I for material descriptions			
10		▼			
15					
20					
25					
30					Annular Seal
35					Filter Pack
40					
					Screen Tip

Bottom of borehole at 44.6 feet.

SIMPLE GEOLOGY WITH WELL - ESEE DATABASE.GDT - 10/29/20 14:45 - \\ALTRCFP01\LAPARKER$\DESKTOP\GPC\PLANT BRANCH PIEZOMETERS.GPJ

Location resurveyed June - July 2020

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BORING LOG

BORING BRGWA-2I/PZ-02 I

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Plant Branch Hydrogeologic Study
LOCATION Milledgeville, GA

DATE STARTED 3/13/2014 **COMPLETED** 3/14/2014 **GROUND ELEVATION** 440.5 ft **COORDINATES** N 1167130 E 2549957.3

CONTRACTOR SCS Field Services **METHOD** Hollow Stem Auger; Casing Advance; HQ Coring **EQUIPMENT** CME 550

DRILLED BY T. Milam **LOGGED BY** W. Shaughnessy **CHECKED BY** _____ **BORING DEPTH** 64.3 ft.

GROUND WATER DEPTH: DURING _____ **COMP.** _____ **DELAYED** 10.1 ft. after 288 hrs.

NOTES _____

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION	Natural Gamma (75 / 150 / 225)	WELL DATA
			440.5		Top of casing Elev. = 443.14
5		subsoil damp, medium stiff, silty CLAY, red and yellow-red			
10		saprolite damp, medium stiff, silty CLAY, yellow-red with black mottles, micas	428.5		
15		saprolite very damp, soft, clayey SILT, soft, red-brown, micas			
20		saprolite very damp, soft, clayey SILT, soft, red-brown, micas, some sand			
25		saprolite very damp, soft, clayey SILT, red-brown, micas, some sand			
30		saprolite very damp, hard, sandy SILT, dark gray and dark brown with black and white mottles	408.5		
35		saprolite wet, dense, silty SAND, dark gray-brown	403.5		
40		saprolite wet, stiff, clayey SILT, stiff, gray-brown with black mottles, micas	397.5		
45					

SIMPLE GEOLOGY WITH WELL - ESEE DATABASE.GDT - 10/29/20 14:45 - \\ALTRCFP01\LAPARKER$\DESKTOP\GPC\PLANT BRANCH PIEZOMETERS.GPJ

(Continued Next Page)

Location resurveyed June - July 2020

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BORING BRGWA-2I/PZ-02 I

BORING LOG

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Plant Branch Hydrogeologic Study

LOCATION Milledgeville, GA

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION
		saprolite wet, very dense, silty SAND, very dense, dark gray with white mottles *(Con't)*	440.5
50		saprolite wet, dense, silty SAND, very dense, dark gray	390.9
		fine to medium grain, very hard, not weathered, flow banded, few fractures, hornblende, biotite, feldspar, quartz, trace pyrite, vertical quartz veins, fresh	
55		fine to coarse grain, very hard, not weathered, flow banded, few fractures, hornblende, biotite, feldspar, quartz, trace pyrite and garnet, fresh	
60		fine to coarse grain, very hard, not weathered, flow banded, few fractures, hornblende, biotite, feldspar, quartz, trace pyrite, fresh	
			376.2

Bottom of borehole at 64.3 feet.

Natural Gamma

75 150 225

WELL DATA

Top of casing Elev. = 443.14

(CONTINUED)

Annular Seal

Filter Pack

Screen Tip Elevation

SIMPLE GEOLOGY WITH WELL - ESEE DATABASE.GDT - 10/29/20 14:45 - \\ALTRCFP01\LAPARKER$\DESKTOP\GPC\PLANT BRANCH PIEZOMETERS.GPJ

Location resurveyed June - July 2020

BORING BRGWA-5S/PZ-05 S

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BORING LOG

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Plant Branch Hydrogeologic Study
LOCATION Milledgeville, GA

DATE STARTED 4/3/2014 **COMPLETED** 4/3/2014 **GROUND ELEVATION** 440.8 ft **COORDINATES** N 1170177.5 E 2549415.5

CONTRACTOR SCS Field Services **METHOD** Hollow Stem Auger **EQUIPMENT** CME 550

DRILLED BY S. Denty **LOGGED BY** W. Shaughnessy **CHECKED BY** _____ **BORING DEPTH** 40 ft.

GROUND WATER DEPTH: DURING _____ **COMP.** _____ **DELAYED** 10 ft. after 250 hrs.

NOTES _____

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION	Natural Gamma (75 / 150 / 225)	WELL DATA
			440.8		Top of casing Elev. = 443.86
5		See PZ-05 I for material descriptionsSee PZ-5 I for material descriptions			
10		▼			
15					
20					
25					Annular Seal
30					Filter Pack
35					
40					Screen Tip Elevation

Bottom of borehole at 40.0 feet.

SIMPLE GEOLOGY WITH WELL - ESEE DATABASE.GDT - 10/29/20 14:45 - \\ALTRCFP01\LAPARKER$\DESKTOP\GPC\PLANT BRANCH PIEZOMETERS.GPJ

Location resurveyed June - July 2020

BORING BRGWA-5I/PZ-05 I

SOUTHERN COMPANY

BORING LOG

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Plant Branch Hydrogeologic Study
LOCATION Milledgeville, GA

DATE STARTED 4/2/2014 **COMPLETED** 4/3/2014 **GROUND ELEVATION** 441.1 ft **COORDINATES** N 1170183.7 E 2549408

CONTRACTOR SCS Field Services **METHOD** Hollow Stem Auger; Casing Advance; HQ Coring **EQUIPMENT** CME 550

DRILLED BY S. Denty **LOGGED BY** W. Shaughnessy **CHECKED BY** _____ **BORING DEPTH** 61.2 ft.

GROUND WATER DEPTH: DURING _____ **COMP.** _____ **DELAYED** 10 ft. after 250 hrs.

NOTES _____

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION	Natural Gamma (75 / 150 / 225)	WELL DATA (Top of casing Elev. = 443.79)
			441.1		Surface Seal
5		residuum damp, very stiff, silty CLAY, red with yellow-red mottles			
10		residuum damp, medium stiff, silty CLAY, red with yellow-red and black mottles			
15		saprolite very damp, soft, silty CLAY, yellow-red with black mottles, mica	425.1		
20		saprolite wet, soft, clayey SILT, red-yellow with black mottles			Annular Fill
25		saprolite wet, medium stiff, clayey SILT, yellow-brown with black mottles, mica			
30		saprolite wet, stiff, clayey SILT, brown-gray with black mottles			
35		saprolite wet, very stiff, sandy SILT, gray with white mottles			
40		saprolite wet, hard, sandy SILT, gray with white mottles			
45		----auger refusal----	397.2 396.4		

SIMPLE GEOLOGY WITH WELL - ESEE DATABASE.GDT - 10/29/20 14:45 - \\ALTRCFP01\LAPARKER$\DESKTOP\GPC\PLANT BRANCH PIEZOMETERS.GPJ

(Continued Next Page)

Location resurveyed June - July 2020

SOUTHERN COMPANY

BORING LOG

BORING BRGWA-5I/PZ-05 I

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Plant Branch Hydrogeologic Study

LOCATION Milledgeville, GA

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION
		(CONTINUED)	441.1
		Amphibolite GNEISS fine to medium grain, moderately weathered, massive, numerous fractures, black and white grains, boulder	394.8
		Soft material, norecovery	
50		**Amphibolite GNEISS** fine to coarse grain, not to moderately weathered, massive, numerous fractures, light gray partially weathered rock, then coarse grained weathered amphibolite	
		fine to medium grain, not to highly weathered, massive, numerous fractures, gray to dark gray, light gray banding	
55			
		fine to medium grain, not to slightly weathered, massive, fractures 58-59 ft., gray, light gray banding, pyrite	
60			
		fine to medium grain, not to slightly weathered, massive, fractures 60-61 ft., gray, light gray banding, pyrite	379.9

Bottom of borehole at 61.2 feet.

Natural Gamma

75 150 225

WELL DATA

Top of casing Elev. = 443.79

Annular Fill

Annular Seal

Filter Pack

Screen Tip Elevation

SIMPLE GEOLOGY WITH WELL - ESEE DATABASE.GDT - 10/29/20 14:45 - \\ALTRCFP01\LAPARKER$\DESKTOP\GPC\PLANT BRANCH PIEZOMETERS.GPJ

Location resurveyed June - July 2020

BORING BRGWA-6S/PZ-06 S

SOUTHERN COMPANY

BORING LOG

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Plant Branch Hydrogeologic Study
LOCATION Milledgeville, GA

DATE STARTED 4/1/2014 **COMPLETED** 4/1/2014 **GROUND ELEVATION** 455.8 ft **COORDINATES** N 1170732.9 E 2551540.8

CONTRACTOR SCS Field Services **METHOD** Hollow Stem Auger **EQUIPMENT** CME 550

DRILLED BY S. Denty **LOGGED BY** W. Shaughnessy **CHECKED BY** _____ **BORING DEPTH** 51 ft.

GROUND WATER DEPTH: DURING _____ **COMP.** _____ **DELAYED** 24.9 ft. after 300 hrs.

NOTES _____

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION	Natural Gamma (75 / 150 / 225)	WELL DATA (Top of casing Elev. = 458.96)
			455.8		
5		residuum dry, very stiff, CLAY, red			
10		residuum dry, medium stiff, silty CLAY, red with yellow-red mottles			
			442.8		
15		saprolite dry, medium stiff, clayey SILT, red with red-yellow and black mottles, micas			
20		saprolite dry, medium stiff, clayey SILT, red with red-yellow and black mottles, micas			
			431.8		
25		saprolite wet, soft, clayey SILT, brown-yellow with black mottles, micas			
30		saprolite wet, soft, clayey SILT, brown-yellow with black mottles, micas			
35		saprolite wet, medium stiff, clayey SILT, brown-yellow with black mottles, micas			Annular Seal
40		saprolite wet, medium stiff, clayey SILT, brown-yellow with black mottles, micas			Filter Pack
45					

SIMPLE GEOLOGY WITH WELL - ESEE DATABASE.GDT - 10/29/20 14:45 - \\ALTRCFP01\LAPARKER$\DESKTOP\GPC\PLANT BRANCH PIEZOMETERS.GPJ

(Continued Next Page)

Location resurveyed June - July 2020

SOUTHERN COMPANY

BORING LOG

BORING BRGWA-6S/PZ-06 S

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Plant Branch Hydrogeologic Study
LOCATION Milledgeville, GA

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION	Natural Gamma (75 / 150 / 225)	WELL DATA
			455.8		Top of casing Elev. = 458.96 (CONTINUED)
50		saprolite wet, stiff, clayey SILT, olive-yellow with gray mottles, sand *(Con't)*			**Screen Tip Elevation**
		saprolite wet, medium stiff, clayey SILT, olive-gray with brown mottles	404.8		

Bottom of borehole at 51.0 feet.

SIMPLE GEOLOGY WITH WELL - ESEE DATABASE.GDT - 10/29/20 14:45 - \\ALTRCFP01\LAPARKER$\DESKTOP\GPC\PLANT BRANCH PIEZOMETERS.GPJ

Location resurveyed June - July 2020

RECORD OF BOREHOLE PZ-23S/BRGWA-23S

SHEET 1 of 1

PROJECT: SCS Plant Branch
PROJECT NUMBER: 166-0939
DRILLED DEPTH: 41.00 ft
LOCATION: Milledgville, GA

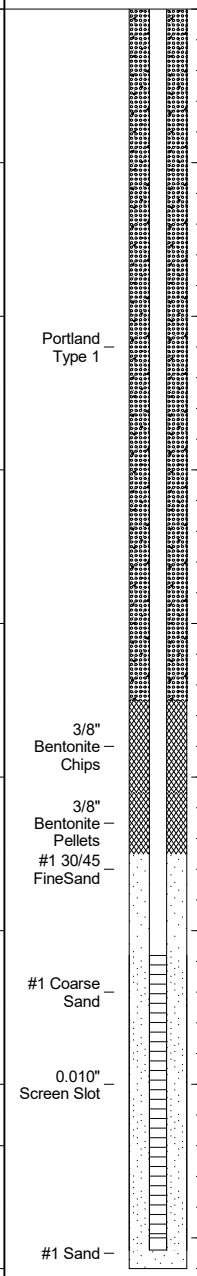
DRILL RIG: Mini-Sonic Track Mounted Rig
DATE STARTED: 7/25/16
DATE COMPLETED: 7/26/16

NORTHING: 1,162,971.70
EASTING: 2,557,868.10
GS ELEVATION: 425.5
TOC ELEVATION: 428.24 ft

DEPTH W.L.: 27.2
ELEVATION W.L.: 401.22
DATE W.L.: 7/25/16
TIME W.L.: na

DEPTH (ft)	ELEVATION (ft)	DESCRIPTION	USCS	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE	REC
0	425	0.00 - 5.00 SILT, NP, reddish brown, white mottling, highly weathered, massive, friable, relic foliation structure micaceous, SAPROLITE; cohesive, dry, very stiff	ML	420.5	1		5.00/5.00
5	420	5.00 - 19.00 SILT, low plasticity; reddish brown, white mottling, massive, semi-friable, micaceous, SAPROLITE; cohesive, moist, soft		5.00	2		5.00/5.00
10	415				3		5.00/5.00
15	410			406.5	4		5.00/5.00
20	405	19.00 - 20.00 trace fine-coarse subangular sand, pinkish brown 20.00 - 28.00 NP, well graded; reddish brown, light brown, dark grey, white mottling , moderately weathered, massive, micaceous, SAPROLITE; cohesive, moist, very soft		19.00 405.5 20.00	5		5.00/5.00
25	400			397.5	6		5.00/5.00
30	395	28.00 - 31.40 silty SAND, fine grained sand, NP, trace coarse subangular grain sand; reddish brown, white mottling, moderately weathered, massive, micaceous, SAPROLITE; cohesive, moist, very soft	SM	28.00 394.1			
35	390	31.40 - 35.00 SAND, poorly graded, very fine grained, few silt, trace subangular medium grain sand; light grey, brown, white mottling, medium weathered, massive, micaceous, SAPROLITE; non-cohesive, moist, loose	SP	31.40 390.5	7		5.00/5.00
		35.00 - 37.00 SAND, poorly graded, fine grained, trace silt; light grey brown, white mottling, highly weathered quartz nodules, heterogenous, micaceous, SAPROLITE; NC, moist-wet, very loose		35.00 388.5	8		2.00/2.00
40	385	37.00 - 40.50 TRANSITIONALLY WEATHERED ROCK, biotite GNEISS, moderately weathered, banded , dark grey, coarsely crystalline, strong rock, iron oxide staining, Sand part of weathered matrix	TWR	37.00 385	9		4.00/4.00
		40.50 - 41.00 BEDROCK, biotite GNEISS, slightly weathered, banded, grey to light tan, medium crystalline, highly competent rock	GNEISS				
45	380	Boring completed at 41.00 ft					
50							

MONITORING WELL/ PIEZOMETER DIAGRAM and NOTES



WELL CONSTRUCTION DETAILS

WELL CASING
Interval: 0'-30.8'
Material: Schedule 40 PVC
Diameter: 2"
Joint Type: Threaded

WELL SCREEN
Interval: 30.8'-40.8'
Material: Schedule 40 PVC
Diameter: 2"
Slot Size: 0.010"
End Cap: Schedule 40 PVC

FILTER PACK
Interval: 27.5'-40.0'
Type: 27.5'-28.5', 30/45 fine sand; 28.5'-40.0', #1 sand

FILTER PACK SEAL
Interval: 22.5'-27.5'
Type: 22.5'-25.5', 3/8" Bentonite Chips; 25.5'-27.5', Bentonite Pellets

ANNULUS SEAL
Interval: 2.0'-22.5'
Type: Portland Cement (Type I)

WELL COMPLETION
Pad: 4'x4'x4"
Protective Casing: Anodized Aluminum

DRILLING METHODS
Soil Drill: 4-inch Sonic
Rock Drill: 4-inch Sonic

LOG SCALE: 1 in = 6.5 ft
DRILLING COMPANY: Cascade Drilling
DRILLER: Scotty Vermillon

GA INSPECTOR: Will Ethier
CHECKED BY: Rachel P. Kirkman, P.G.
DATE: 9/15/16

GOLDER

BOREHOLE RECORD PLANT BRANCH LOGS2_SURVEY UPDATED.GPJ PIEDMONT.GDT 8/20/20

Location resurveyed June - July 2020

RECORD OF BOREHOLE PZ-25I/BRGWC-25I

SHEET 1 of 1

PROJECT: SCS Plant Branch
PROJECT NUMBER: 166-0939
DRILLED DEPTH: 21.00 ft
LOCATION: Milledgville, GA

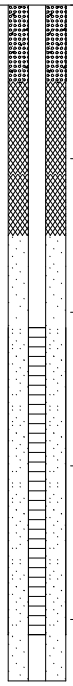
DRILL RIG: Mini-Sonic Track Mounted Rig
DATE STARTED: 7/24/16
DATE COMPLETED: 7/25/16

NORTHING: 1,160,583.70
EASTING: 2,561,315.10
GS ELEVATION: 355.0
TOC ELEVATION: 357.37 ft

DEPTH W.L.: 5.5
ELEVATION W.L.: 351.96
DATE W.L.: 7/24/16
TIME W.L.: 9:45

DEPTH (ft)	ELEVATION (ft)	DESCRIPTION	USCS	GRAPHIC LOG	ELEV. / DEPTH (ft)	SAMPLE NO.	TYPE	REC
0	355	0.00 - 3.30 SILT, NP, trace fine-medium sand, trace roots; reddish brown, highly weathered, masssive, micaceous, regolith; cohesive, dry (perched water~2.0'-2.8'), firm	ML		351.7	1		5.00 5.00
		3.30 - 4.00 TRANSITIONALLY WEATHERED ROCK, Moderately weathered, massive, opaque white, slightly yellow, very coarsely crystalline, medium strong, biotite GNEISS, veined, quartz, feldspar, vuggy	TWR ML		351 4.00 350			
5	350	4.00 - 5.00 SILT, NP, trace fine-medium sand, trace roots; reddish brown, highly weathered, masssive, micaceous, regolith; cohesive, dry, firm			5.00 348			
		5.00 - 7.00 SILT, NP, trace fine-medium sand, trace roots; reddish brown, highly weathered, masssive, micaceous, regolith; cohesive, moist, firm	MLS		7.00 345.5			
10	345	7.00 - 9.50 sandy SILT, low plasticity, subangular medium-coarse grain; reddish light brown with light brown mottling, moderately weathered, massive, micaceous, SAPROLITE; cohesive, moist, loose	SM		10.00	2		5.00 10.00
		9.50 - 10.00 silty SAND, angular medium-coarse grain, well graded, NP; medium reddish brown, slightly weathered, massive, micaceous, SAPROLITE; NC, moist, very loose			340			
15	340	10.00 - 15.00 silty SAND, well grdaded, angular fine-coarse grain, NP, trace subangular coarse gravel; medium reddish brown, medium weathered, massive, micaceous, SAPROLITE; NC, moist, loose	PWR		15.00 339 16.00			
		15.00 - 16.00 TRANSITIONALLY WEATHERED ROCK, slightly weathered, foliated, dark grey, pink, opaque off-white, fine-coarsely crystalline, highly compotent rock, weathered granitic biotite GNEISS, intensely fractured, saturated rock , discontinuities normal to core axis	GNEISS		335	3		5.00 15.00
20	335	16.00 - 20.00 Fresh, foliated, dark grey, white, medium-coarsely crystalline, strong rock, biotite GNEISS, instensely fractured	GNEISS		20.00 334			
		20.00 - 21.00 No Recovery				4		1.00 16.00
		Boring completed at 21.00 ft				5		4.00 21.00
25	330							
30	325							
35	320							
40	315							
45	310							
50	305							

MONITORING WELL/ PIEZOMETER DIAGRAM and NOTES



WELL CONSTRUCTION DETAILS

WELL CASING
Interval: 0'-10.5'
Material: Schedule 40 PVC
Diameter: 2"
Joint Type: Threaded

WELL SCREEN
Interval: 10.5'-20.5'
Material: Schedule 40 PVC
Diameter: 2"
Slot Size: 0.010"
End Cap: Schedule 40 PVC

FILTER PACK
Interval: 7.5'-20.5'
Type: 7.5'-8.5', 30/45 fine sand; 8.5'-20.5', #1 sand

FILTER PACK SEAL
Interval: 2.5'-7.5
Type: 2.5'-5.5', 3/8" Bentonite Chips; 5.5'-7.5', 3/8" Bentonite Pellets

ANNULUS SEAL
Interval: 2.0'-2.5'
Type: Portland Cement (Type I)

WELL COMPLETION
Pad: 4'x4'x4"
Protective Casing: Anodized Aluminum

DRILLING METHODS
Soil Drill: 4-inch Sonic
Rock Drill: 4-inch Sonic

LOG SCALE: 1 in = 6.5 ft
DRILLING COMPANY: Cascade Drilling
DRILLER: Scotty Vermillon

GA INSPECTOR: Will Ethier
CHECKED BY: Rachel P. Kirkman, P.G.
DATE: 9/15/16

GOLDER

BOREHOLE RECORD PLANT BRANCH LOGS2_SURVEY UPDATED.GPJ PIEDMONT.GDT 8/20/20

Location resurveyed June - July 2020

RECORD OF BOREHOLE PZ-27S/BRGWC-27I

SHEET 1 of 1

PROJECT: SCS Plant Branch
PROJECT NUMBER: 166-0939
DRILLED DEPTH: 24.00 ft
LOCATION: Milledgville, GA

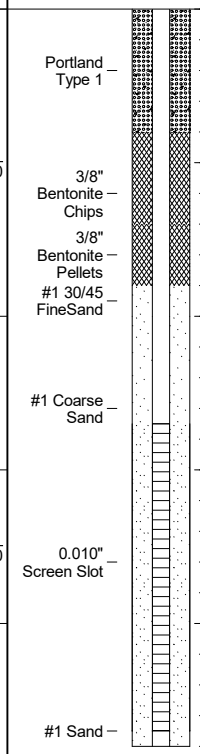
DRILL RIG: Mini-Sonic Track Mounted Rig
DATE STARTED: 7/21/16
DATE COMPLETED: 7/22/16

NORTHING: 1,159,695.30
EASTING: 2,559,712.20
GS ELEVATION: 364.0
TOC ELEVATION: 366.86 ft

DEPTH W.L.: 3.45
ELEVATION W.L.: 364.54
DATE W.L.: 7/22/16
TIME W.L.: 15:00

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE DESCRIPTION	USCS	GRAPHIC LOG	ELEV. / DEPTH (ft)	SAMPLES SAMPLE NO.	TYPE	REC
0		0.00 - 10.00 No Recovery; Hydrovac				1		0.00 10.00
5	360							
10	355				354			
		10.00 - 15.00 SAND with CLAY, medium plasticity,. medium-coarse sand, trace fine angular gravel; moderate reddish brown (10R 4/6), moderately weathered, massive, micaceous, SAPROLITE; cohesive, wet, firm	SP-SC		10.00 349			
15	350	15.00 - 17.50 lean CLAY, medium plasticity, some silt, trace medium grain angular sand; medium reddish brown (10R 4/6), moderate orange pink (5YR 8/4), moderately weathered, laminated, micaceous, SAPROLITE; cohesive, wet, dense	CL		15.00 346.5	2		5.00 15.00
			ML		345.7			
	345	17.50 - 18.30 SILT, non-plastic, coarse angular sand, fine angular gravel; moderate reddish brown (10R 4/6), moderately weathered, massive, micaceous, SAPROLITE; non-cohesive, wet, loose	CL		18.30 344			
20		18.30 - 20.00 lean CLAY, medium plasticity, some silt, trace medium grain angular sand; medium reddish brown (10R 4/6), moderate orange pink (5YR 8/4), moderately weathered, laminated, micaceous, SAPROLITE; cohesive, wet, dense	SM		20.00 342			
			SW					
			SM		23.00			
	340	20.00 - 22.00 silty SAND, medium-coarse angular sand, NP, trace subrounded cobbles; moderate brown (5YR 4/4), moderately weathered, massive, micaceous, SAPROLITE; NC, wet, very loose			340	3		5.00 20.00
25		22.00 - 22.50 gravelly SAND, fine-coarse grain sand, well graded, coarse sub rounded gravel, trace silt; light brown (5YR 5/6), slightly weathered, massive, quartzitic, micaceous, SAPROLITE; NC, wet, very loose						
	335	22.50 - 23.00 silty SAND, fine-medium grain, well graded, subrounded, trace subrounded coarse quartz gravel; light brown (5YR 6/4) mottled with pale brown (5YR 5/2), lightly weathered, relic foliation structures, micaceous, SAPROLITE; NC, moist, loose						
30		23.00 - 24.00 No Recovery				4		4.00 24.00
		Boring completed at 24.00 ft						
35	330							
40	325							
45	320							
50	315							

MONITORING WELL/ PIEZOMETER DIAGRAM and NOTES



WELL CONSTRUCTION DETAILS

WELL CASING
Interval: 0'-14'
Material: Schedule 40 PVC
Diameter: 2"
Joint Type: Threaded

WELL SCREEN
Interval: 14'-24'
Material: Schedule 40 PVC
Diameter: 2"
Slot Size: 0.010"
End Cap: Schedule 40 PVC

FILTER PACK
Interval: 9.0'-24'
Type: 9.0'-10.0', 30/45 fine sand; 10.0'-23.5', #1 sand

FILTER PACK SEAL
Interval: 4.0'-9.0'
Type: 4.0'-7.0', 3/8" Bentonite Chips; 7.0'-9.0', Bentonite Pellets

ANNULUS SEAL
Interval: 0.0'-4.0'
Type: Portland Cement (Type I)

WELL COMPLETION
Pad: 4'x4'x4"
Protective Casing: Anodized Aluminum

DRILLING METHODS
Soil Drill: 4-inch Sonic
Rock Drill: N/A

Hydrovac left standing water at 3.45'

LOG SCALE: 1 in = 6.5 ft
DRILLING COMPANY: Cascade Drilling
DRILLER: Scotty Vermillon

GA INSPECTOR: Will Ethier
CHECKED BY: Rachel P. Kirkman, P.G.
DATE: 9/15/16

GOLDER

BOREHOLE RECORD PLANT BRANCH LOGS2_SURVEY UPDATED.GPJ PIEDMONT.GDT 8/20/20

Location resurveyed June - July 2020

RECORD OF BOREHOLE PZ-29I/BRGWC-29I

SHEET 1 of 1

PROJECT: SCS Plant Branch
PROJECT NUMBER: 166-0939
DRILLED DEPTH: 21.00 ft
LOCATION: Milledgville, GA

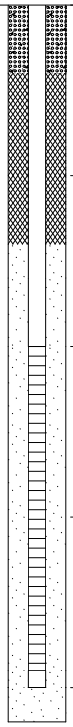
DRILL RIG: Mini-Sonic Track Mounted Rig
DATE STARTED: 7/22/16
DATE COMPLETED: 7/23/16

NORTHING: 1,160,297.60
EASTING: 2,561,050.20
GS ELEVATION: 350.6
TOC ELEVATION: 353.23 ft

DEPTH W.L.: 6.56
ELEVATION W.L.: 346.74
DATE W.L.: 7/24/2016
TIME W.L.: 06:52

DEPTH (ft)	ELEVATION (ft)	DESCRIPTION	USCS	GRAPHIC LOG	ELEV. / DEPTH (ft)	SAMPLE NO.	TYPE	REC
0	350	0.00 - 1.00 TOPSOIL, SILTY SAND, some organic matter; dark brown; moist	SM		349.6			
		1.00 - 7.00 Sandy SILT sub-angular fine sand; brown-orange, relic foliation present, SAPROLITE; moist, loose	ML		1.00	1		5.00 / 5.00
5	345				343.6	2		5.00 / 5.00
		7.00 - 8.00 SILTY SAND, micaceous; densely foliated, SAPROLITE; Dense	SM		7.00 342.6			
		8.00 - 20.00 TRANSITIONALLY WEATHERED ROCK, highly weathered (W4), densely foliated, white-black, medium grained, weak (R2) with some strong (W4) fresh sections, BIOTITE GNIESS, with biotite, quartz and some weathered feldspars	TWR		8.00	3		2.50 / 5.00
10	340					4		1.00 / 5.00
15	335				330.6			
20	330	20.00 - 21.00 No recovery			20.00 329.6	5		0.00 / 1.00
		Boring completed at 21.00 ft						
25	325							
30	320							
35	315							
40	310							
45								

MONITORING WELL/ PIEZOMETER DIAGRAM and NOTES



WELL CONSTRUCTION DETAILS

WELL CASING
Interval: 0.0'-10.0'
Material: Schedule 40 PVC
Diameter: 2"
Joint Type: Threaded

WELL SCREEN
Interval: 10.0'-20.0'
Material: Schedule 40 PVC
Diameter: 2"
Slot Size: 0.010"
End Cap: Schedule 40 PVC

FILTER PACK
Interval: 7.0'-21.0'
Type: 7.0'-8.0' 30/45 Sand - 8.0'-21.0' #1 Sand

FILTER PACK SEAL
Interval: 2.0'-7.0'
Type: 2.0'-5.0' 3/8" Bentonite Chips - 5.0'-7.0' 3/8" Bentonite Pellets

ANNULUS SEAL
Interval: 0.0'-2.0'
Type: Concrete

WELL COMPLETION
Pad: 4'x4'x4"
Protective Casing: Anodized Aluminum

DRILLING METHODS
Soil Drill: 4-inch Sonic
Rock Drill: N/A

LOG SCALE: 1 in = 5.5 ft
DRILLING COMPANY: Cascade
DRILLER: Ray Whitt

GA INSPECTOR: Mike Smilley, P.G.
CHECKED BY: Rachel P. Kirkman, P.G.
DATE: 9/15/16

GOLDER

BOREHOLE RECORD PLANT BRANCH LOGS_SURVEY UPDATED.GPJ PIEDMONT.GDT 8/20/20

Location resurveyed June - July 2020

RECORD OF BOREHOLE PZ-30I/BRGWC-30I

SHEET 1 of 1

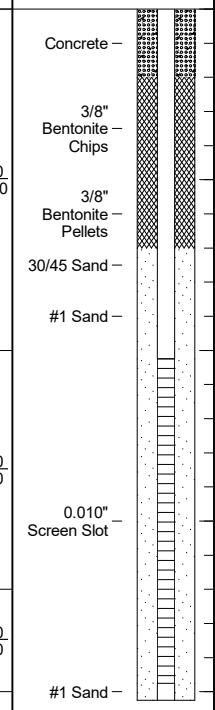
PROJECT: SCS Plant Branch
PROJECT NUMBER: 166-0939
DRILLED DEPTH: 20.25 ft
LOCATION: Milledgville, GA

DRILL RIG: Mini-Sonic Track Mounted Rig
DATE STARTED: 7/18/16
DATE COMPLETED: 7/18/16

NORTHING: 1,161,607.60
EASTING: 2,557,691.80
GS ELEVATION: 350.0
TOC ELEVATION: 352.61 ft

DEPTH W.L.: 1.55
ELEVATION W.L.: 350.78
DATE W.L.: 7/20/2016
TIME W.L.: 08:57

DEPTH (ft)	ELEVATION (ft)	DESCRIPTION	USCS	ELEV. / DEPTH (ft)	SAMPLE NO.	TYPE	REC
0	350	0.00 - 4.70 Sandy CLAYEY SILT, low plasticity fines, fine to medium sub-angular sand, trace organics (roots); moderate reddish brown (10YR 4/6), cohesive, w<PL, soft	ML	345.3			
5	345	4.70 - 6.60 Sandy SILTY CLAY, medium plasticity fines, fine sand; grayish blue green (5BG 5/2) to light blue gray (5B 7/1) mottled with moderate yellowish brown (10YR 5/4) and white (N9), cohesive, w~PL, firm	CL	4.70 343.4	1		8.00 10.00
		6.60 - 6.80 SAND, fine to medium sub-angular sand, non-plastic fines; greenish gray (5G 6/1) to pale olive (10Y 6/2), non-cohesive, moist, loose	SP CL	342.6 7.40			
		6.80 - 7.40 Sandy SILTY CLAY, medium plasticity fines, fine sand; grayish blue green (5BG 5/2) to light blue gray (5B 7/1) mottled with moderate yellowish brown (10YR 5/4) and white (N9), cohesive, w~PL, firm	SM	339.5			
10	340	7.40 - 10.50 SILTY SAND, fine to coarse well graded sub-angular sand, low plasticity fines, trace fine sub-angular gravels; dark yellowish orange (10YR 6/6) to very pale orange (10YR 8/2), SAPROLITE; non-cohesive, moist, compact	SP SP-SM	338.9 11.10			
		10.50 - 11.10 SAND, fine to medium sub-angular sand, trace non-plastic fines, trace fine angular gravels; dusky brown (5YR 2/2) to moderate brown (5YR 4/4), highly weathered (W4), quartz, biotite, and weathered micaceous grains, SAPROLITE; non-cohesive, moist, dense		336.1	2		7.00 7.00
15	335	11.10 - 13.90 SAND, fine angular sand, some non-plastic fines, trace fine angular gravels; dark yellowish orange (10YR 6/6) and grayish orange (10YR 7/4), highly weathered (W$4, weathered micaceous grains, quartz, and biotite, SAPROLITE; non-cohesive, wet, very dense	SW TWR GNEISS	13.90 334.6 15.80 333.2 16.80			
		13.90 - 15.40 SAND, fine to coarse angular sand, trace non-plastic fines, some fine to coarse soft angular gravel (core stones); moderate yellowish brown (10YR 5/4) mottled white (N9) and pale olive (10YR 6/2), moderately to highly weathered (W3 to W4), weathered micaceous grains, quartz, plagioclase, biotite, SAPROLITE; non-cohesive, wet, very dense		330 20.00	3		2.80 3.00
20	330	15.40 - 15.80 TRANSITIONALLY WEATHERED ROCK, fine to coarse angular sand, fine to coarse angular gravels (core stones), trace non-plastic fines; light gray (N7), slightly to moderately weathered (W2-W3), quartz, biotite and weathered micaceous grains, non-cohesive, wet, very dense					
25	325	15.80 - 16.80 Slightly weathered (W2), medium bedded, light olive gray (5Y 5/2) to medium light gray (N7), fine grained, slightly porous, weak rock (R2), GNIESS, some weathering staining, quartz, biotite and weathered micaceous grains.					
30	320	16.80 - 20.00 Slightly weathered (W2), medium to thinly wavy foliated, medium to coarse grained, white (N1) and grayish black (N2) with some dark yellowish orange (10YR 6/6) weathered surfaces, slightly porous (fracture surfaces), medium strong to strong (R3 to R4), BIOTITE GNIESS, with biotite, quartz, hornblende, frequent weathering surfaces 17.00: (17.0) fresh (W1), occasional weathered surfaces					
35	315	Boring completed at 20.25 ft					
40	310						
45	305						



WELL CASING
Interval: 0'-10'
Material: Schedule 40 PVC
Diameter: 2"
Joint Type: Threaded

WELL SCREEN
Interval: 10'-20'
Material: Schedule 40 PVC
Diameter: 2"
Slot Size: 0.010"
End Cap: Schedule 40 PVC

FILTER PACK
Interval: 7.0'-20.25'
Type: 7.0'-8.0' 30/45 Sand - 8.0'-20.25' #1 Sand

FILTER PACK SEAL
Interval: 2.0'-7.0'
Type: 2.0'-5.0' 3/8" Bentonite Chips - 5.0'-7.0' 3/8" Bentonite Pellets

ANNULUS SEAL
Interval: 0'-2'
Type: Concrete

WELL COMPLETION
Pad: 4'x4'x4"
Protective Casing: Anodized Aluminum

DRILLING METHODS
Soil Drill: 4-inch Sonic
Rock Drill: N/A

LOG SCALE: 1 in = 5.5 ft
DRILLING COMPANY: Cascade Drilling
DRILLER: Trenton Herod

GA INSPECTOR: Jeffrey Ingram
CHECKED BY: Rachel P. Kirkman, P.G.
DATE: 9/15/16

GOLDER

BOREHOLE RECORD PLANT BRANCH LOGS_SURVEY UPDATED.GPJ PIEDMONT.GDT 8/20/20

Location resurveyed June - July 2020

RECORD OF BOREHOLE PZ-32S/BRGWC-32S

SHEET 1 of 2

PROJECT: SCS Plant Branch
PROJECT NUMBER: 166-0939
DRILLED DEPTH: 45.00 ft
LOCATION: Milledgville, GA

DRILL RIG: TS-150 Track Mounted Rig
DATE STARTED: 7/19/16
DATE COMPLETED: 7/20/16

NORTHING: 1,160,677.70
EASTING: 2,558,497.90
GS ELEVATION: 403.6
TOC ELEVATION: 406.39 ft

DEPTH W.L.: 30.05
ELEVATION W.L.: 322.28
DATE W.L.: 7/22/2016
TIME W.L.: 08:00

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE: DESCRIPTION	USCS	GRAPHIC LOG	ELEV. / DEPTH (ft)	SAMPLES: SAMPLE NO.	TYPE	REC	MONITORING WELL/ PIEZOMETER DIAGRAM and NOTES
0		0.00 - 0.70 TOPSOIL, SILTY SAND, fine poorly graded sand, non-plastic fines, some organics (roots); dark yellowish brown (10YR 4/2); non-cohesive, dry, loose	SM		402.9 0.70				
		0.70 - 8.30 non-plastic to low plasticity fines, trace organics (roots); moderate reddish brown (10R 4/6), completely weathered (W5), some weathered micaceous grains, SAPROLITE; non-cohesive, moist, loose							
5	400					1		8.80 10.00	
					395.3				
	395	8.30 - 17.90 fine to coarse well graded angular sand, non-plastic to low plasticity fines, some fine to coarse soft angular gravels (core stones); pale yellowish brown (10YR 6/2), light brown (5YR 5/6) and black (N1), highly to completely weathered (W4 to W5), some relic foliations in core stones, weathered micaceous grains, quartz, biotite, SAPROLITE; non-cohesive, moist, compact			8.30				
10									
	390					2		7.90 10.00	Portland Cement (Type II)
15					385.7				
		17.90 - 19.10 fine to coarse well graded angular sand, non-plastic to low plasticity fines, some fine to coarse soft angular gravels (core stones); layers of dark yellowish orange (10YR 6/6), pale yellowish brown (10YR 6/2), pale reddish brown (10R 5/4) mottled black (N1) and white (N9), highly weathered (W4), some relic foliaitions in core stones, weathered micaceous grains, biotite, quartz, SAPROLITE; non-cohesive, moist, compact			17.90 384.5 19.10				
	385								
20		19.10 - 28.50 (SP-SM) SAND, fine to coarse sub-angular sand, non-plastic to low plasticity fines, some soft angular gravels (core stones); pale yellowish brown (10YR 6/2), white (N9), and black (N1), highly weathered (W4), some relic foliaitions in core stones, weathered micausous grains, biotite, quartz, SAPROLITE; non-cohesive, moist, Dense 25.00: (25.0) some white (N9) fresh quartz pockets	SP-SM						
	380					3		10.00 10.00	
25					375.1				
		28.50 - 30.00 SILTY SAND, fine to medium sub-angular poorly graded sand, non-plastic to low plasticity fines; light brown (5YR 5/6) black (N1), and pale yellowish brown (10YR 6/2), highly weathered (W4), some relic foliations, biotite, quartz, weathered micaceous grains, SAPROLITE; non-cohesive, moist, dense	SM		28.50 373.6				3/8" Bentonite Chips
30	375		SC		30.00 371.6				3/8" Bentonite Pellets
		30.00 - 32.00 CLAYEY SAND, fine sand, medium plasticity fines; pale yellowish brown (10YR 6/2), to light olive gray (5Y 5/2) mottled black (N1) and white (N9), some relic foliations, weathered micaceous grains, biotite, quartz, SAPROLITE; cohesive, w~PL, hard			32.00				30/45 Sand
	370								#1 Sand
35		32.00 - 38.70 SAND, fine sand, non-plastic fines; light brown (5YR 5/6), black (N1) and pale yellowish brown (10YR 6/2), highly weathered (W4), weathered micaceous grains, SAPROLITE; non-cohesive, wet, loose	SP-SM			4		10.00 10.00	
	365				364.9				
		38.70 - 40.00 SAND, fine to coarse sub-angular sand, trace non-plastic fines; pale yellowish brown (10YR 6/2) mottled white (N9) and Black (N1), moderately weathered (W3), some foliation layers, SAPROLITE; non-cohesive, wet, dense	SW		38.70 363.6				0.010" Screen Slot
40			ML		40.00				
		40.00 - 42.50 SANDY SILT, fine sand, low plasticity fines; light olive gray (5Y 5/2), completely weathered rock (W6), weathered micaceous grains, biotite, quartz, SAPROLITE; cohesive, w>PL, firm			361.1	5		5.00 5.15	
	360	42.50 - 45.00 SAND, fine to medium angular sand, trace non-plastic fines; pale yellowish brown (10YR 6/2), some relic foliations, weathered	SP		42.50 358.6				
45		Log continued on next page							

WELL CASING
Interval: 0.0'-35'
Material: Schedule 40 PVC
Diameter: 2"
Joint Type: Threaded

WELL SCREEN
Interval: 35'-45'
Material: Schedule 40 PVC
Diameter: 2"
Slot Size: 0.010"
End Cap: Schedule 40 PVC

FILTER PACK
Interval: 32.0'-45.15
Type: 32.0'-33.0' 30/45 Sand - 33.0'-45.15' #1 Sand

FILTER PACK SEAL
Interval: 27.0'-32.0'
Type: 27.0'-30.0' 3/8" Bentonite Chips - 30.0'-32.0' 3/8" Bentonite Pellets

ANNULUS SEAL
Interval: 3'-27'
Type: Portland Cement (Type II)

WELL COMPLETION
Pad: 4'x4'x4"
Protective Casing: Anodized Aluminum

DRILLING METHODS
Soil Drill: 4-inch Sonic
Rock Drill: N/A

LOG SCALE: 1 in = 5.5 ft
DRILLING COMPANY: Cascade Drilling
DRILLER: Trenton Herod

GA INSPECTOR: Jeffrey Ingram
CHECKED BY: Rachel P. Kirkman, P.G.
DATE: 9/15/16

GOLDER

BOREHOLE RECORD PLANT BRANCH LOGS_SURVEY UPDATED.GPJ PIEDMONT.GDT 8/20/20

Location resurveyed June - July 2020

RECORD OF BOREHOLE PZ-32S/BRGWC-32S

SHEET 2 of 2

PROJECT: SCS Plant Branch
PROJECT NUMBER: 166-0939
DRILLED DEPTH: 45.00 ft
LOCATION: Milledgville, GA

DRILL RIG: TS-150 Track Mounted Rig
DATE STARTED: 7/19/16
DATE COMPLETED: 7/20/16

NORTHING: 1,160,677.70
EASTING: 2,558,497.90
GS ELEVATION: 403.6
TOC ELEVATION: 406.39 ft

DEPTH W.L.: 30.05
ELEVATION W.L.: 322.28
DATE W.L.: 7/22/2016
TIME W.L.: 08:00

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE: DESCRIPTION	USCS	GRAPHIC LOG	SAMPLES: ELEV. / DEPTH (ft)	SAMPLE NO.	TYPE	REC	MONITORING WELL/ PIEZOMETER DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
45		micaceous grains, biotite, quartz, SAPROLITE; non-cohesive, wet, dense							#1 Sand	
		Boring completed at 45.00 ft								
	355									
50										
	350									
55										
	345									
60										
	340									
65										
	335									
70										
	330									
75										
	325									
80										
	320									
85										
	315									
90										

WELL CASING
Interval: 0.0'-35'
Material: Schedule 40 PVC
Diameter: 2"
Joint Type: Threaded

WELL SCREEN
Interval: 35'-45'
Material: Schedule 40 PVC
Diameter: 2"
Slot Size: 0.010"
End Cap: Schedule 40 PVC

FILTER PACK
Interval: 32.0'-45.15
Type: 32.0'-33.0' 30/45 Sand - 33.0'-45.15' #1 Sand

FILTER PACK SEAL
Interval: 27.0'-32.0'
Type: 27.0'-30.0' 3/8" Bentonite Chips - 30.0'-32.0' 3/8" Bentonite Pellets

ANNULUS SEAL
Interval: 3'-27'
Type: Portland Cement (Type II)

WELL COMPLETION
Pad: 4'x4'x4"
Protective Casing: Anodized Aluminum

DRILLING METHODS
Soil Drill: 4-inch Sonic
Rock Drill: N/A

LOG SCALE: 1 in = 5.5 ft
DRILLING COMPANY: Cascade Drilling
DRILLER: Trenton Herod

GA INSPECTOR: Jeffrey Ingram
CHECKED BY: Rachel P. Kirkman, P.G.
DATE: 9/15/16

GOLDER

BOREHOLE RECORD PLANT BRANCH LOGS_SURVEY UPDATED.GPJ PIEDMONT.GDT 8/20/20

Location resurveyed June - July 2020

RECORD OF BOREHOLE PZ-45/BRGWC-45

SHEET 1 of 2

PROJECT: Plant Branch
PROJECT NUMBER: 1666254-01
DRILLED DEPTH: 57.00 ft
LOCATION: Former Coal Pile

DRILL RIG: Pro Sonic 150
DATE STARTED: 2/3/18
DATE COMPLETED: 2/3/18

NORTHING: 1,162,229.80
EASTING: 2,561,075.50
GS ELEVATION: 381.6
TOC ELEVATION: 384.58 ft

DEPTH W.L.: 11.41
ELEVATION W.L.: 370.19
DATE W.L.: 2/14/18
TIME W.L.:

DEPTH (ft)	ELEVATION (ft)	DESCRIPTION	USCS	GRAPHIC LOG	ELEV. / DEPTH (ft)	SAMPLE NO.	TYPE	REC	MONITORING WELL/ PIEZOMETER DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
0	380	0.00 - 8.00 Soils removed by Hydrovac from 0-8 feet bgs.							Grout mix with stainless steel casing	**WELL CASING** Interval: 0-46.6 Material: Schedule 40 PVC Diameter: 2" Joint Type: Screw **WELL SCREEN** Interval: 46.6-56.6 Material: 0.010 Slotted Schedule 40 PVC Diameter: 2" Slot Size: 0.010" End Cap: 56.6-57 **FILTER PACK** Interval: 45-57 Type: FilterSil **FILTER PACK SEAL** Interval: 40-45 Type: 3/8" PEL-PLUG Bentonite Pellets **ANNULUS SEAL** Interval: 0-40 Type: Portland Cement/Quikrete Grout Mix **WELL COMPLETION** Pad: 4'x4' Protective Casing: 4"x4"x5' **DRILLING METHODS** Soil Drill: Rotosonic Rock Drill: Core
5	375				373.6					
		8.00 - 33.00 Fill, Silty Sand, orangish brown, non-cohesive, moist.	SM		8.00					
10	370									
15	365								Portland Cement/Quikrete grout mix	
20	360									
25	355									
30	350				348.6					
		33.00 - 52.00 Saprolite, Sand, reddish brown with white and black relic foliation, non cohesive, moist.	SP		33.00					
35	345									
40										

Log continued on next page

LOG SCALE: 1 in = 5 ft
DRILLING COMPANY: Cascade
DRILLER: Matt Pope

GA INSPECTOR: David Hannam
CHECKED BY: Rachel P. Kirkman, P.G.
DATE: 5/31/18

GOLDER

BOREHOLE RECORD 1666254-01 (1)_SURVEY UPDATED.GPJ PIEDMONT.GDT 8/21/20

Location resurveyed June - July 2020

RECORD OF BOREHOLE PZ-45/BRGWC-45

PROJECT: Plant Branch
PROJECT NUMBER: 1666254-01
DRILLED DEPTH: 57.00 ft
LOCATION: Former Coal Pile

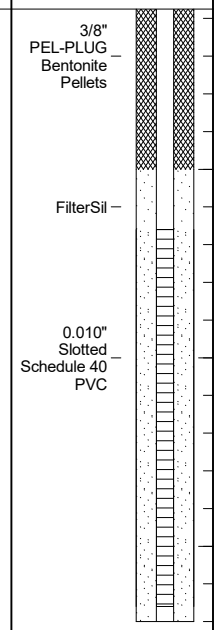
DRILL RIG: Pro Sonic 150
DATE STARTED: 2/3/18
DATE COMPLETED: 2/3/18

NORTHING: 1,162,229.80
EASTING: 2,561,075.50
GS ELEVATION: 381.6
TOC ELEVATION: 384.58 ft

DEPTH W.L.: 11.41
ELEVATION W.L.: 370.19
DATE W.L.: 2/14/18
TIME W.L.:

DEPTH (ft)	ELEVATION (ft)	DESCRIPTION	USCS	GRAPHIC LOG	ELEV. / DEPTH (ft)	SAMPLE NO.	TYPE	REC
	340	33.00 - 52.00 Saprolite, Sand, reddish brown with white and black relic foliation, non cohesive, moist. *(Continued)*						
45	335		SP					
	330				329.6			
50		52.00 - 57.00 BIOTITE GNEISS, moderately weathered to fresh, oxide staining, thinly bedded, black and white, phaneritic, extremely weak to strong.			52.00			
55	325				324.6			
		Boring completed at 57.00 ft						
60	320							
65	315							
70	310							
75	305							
80								

MONITORING WELL/ PIEZOMETER DIAGRAM and NOTES



WELL CONSTRUCTION DETAILS

WELL CASING
Interval: 0-46.6
Material: Schedule 40 PVC
Diameter: 2"
Joint Type: Screw

WELL SCREEN
Interval: 46.6-56.6
Material: 0.010 Slotted Schedule 40 PVC
Diameter: 2"
Slot Size: 0.010"
End Cap: 56.6-57

FILTER PACK
Interval: 45-57
Type: FilterSil

FILTER PACK SEAL
Interval: 40-45
Type: 3/8" PEL-PLUG Bentonite Pellets

ANNULUS SEAL
Interval: 0-40
Type: Portland Cement/Quikrete Grout Mix

WELL COMPLETION
Pad: 4'x4'
Protective Casing: 4"x4"x5'

DRILLING METHODS
Soil Drill: Rotosonic
Rock Drill: Core

LOG SCALE: 1 in = 5 ft
DRILLING COMPANY: Cascade
DRILLER: Matt Pope

GA INSPECTOR: David Hannam
CHECKED BY: Rachel P. Kirkman, P.G.
DATE: 5/31/18

GOLDER

Location resurveyed June - July 2020

RECORD OF BOREHOLE PZ-47/BRGWC-47

SHEET 1 of 3

PROJECT: Plant Branch
PROJECT NUMBER: 1666254-01
DRILLED DEPTH: 97.00 ft
LOCATION: Between Pond B

DRILL RIG: Pro Sonic 150
DATE STARTED: 1/25/18
DATE COMPLETED: 1/26/18

NORTHING: 1,162,700.70
EASTING: 2,559,456.70
GS ELEVATION: 408.8
TOC ELEVATION: 411.20 ft

DEPTH W.L.: 25.93
ELEVATION W.L.: 382.87
DATE W.L.: 2/14/18
TIME W.L.:

DEPTH (ft)	ELEVATION (ft)	DESCRIPTION	USCS	GRAPHIC LOG	ELEV. / DEPTH (ft)	SAMPLE NO.	TYPE	REC	MONITORING WELL/ PIEZOMETER DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
0	405	0.00 - 0.50 Ash as sand, fine, dark gray, moist, non-cohesive.	SP		408.3 0.50				Grout Mix with stainless steel casing	**WELL CASING** Interval: 0-81.6 Material: Schedule 40 PVC Diameter: 2" Joint Type: Screw **WELL SCREEN** Interval: 81.6-91.6 Material: 0.010" Slotted Schedule 40 PVC Diameter: 2" Slot Size: 0.010" End Cap: 91.6-92 **FILTER PACK** Interval: 80-93 Type: FilterSil **FILTER PACK SEAL** Interval: 75-80 Type: 3/8" PEL-PLUG Bentonite Pellets **ANNULUS SEAL** Interval: 0-75 Type: Portland Cement/Quikrete grout mix **WELL COMPLETION** Pad: 4'x4' Protective Casing: 4"x4"x5' **DRILLING METHODS** Soil Drill: Rotosonic Rock Drill: Core
5	400	0.50 - 15.00 Residuum, silty Sand, sands f-m, reddish brown, micaceous, moist, non-cohesive.	SM							
10	395									
15	390	15.00 - 75.00 Saprolite, silty Sand, reddish brown to grayish brown with intermediate white mottling, relic structure, micaceous, dry to moist, non			393.8 15.00					
20	385									
25	380		SM							
30	375								Portland Cement/Quikrete grout mix	
35	370									
40										

Log continued on next page

LOG SCALE: 1 in = 5 ft
DRILLING COMPANY: Cascade
DRILLER: Matt Pope

GA INSPECTOR: David Hannam
CHECKED BY: Rachel P. Kirkman, P.G.
DATE: 5/31/18

GOLDER

BOREHOLE RECORD 1666254-01 (1)_SURVEY UPDATED.GPJ PIEDMONT.GDT 8/21/20

Location resurveyed June - July 2020

RECORD OF BOREHOLE PZ-47/BRGWC-47

PROJECT: Plant Branch
PROJECT NUMBER: 1666254-01
DRILLED DEPTH: 97.00 ft
LOCATION: Between Pond B

DRILL RIG: Pro Sonic 150
DATE STARTED: 1/25/18
DATE COMPLETED: 1/26/18

NORTHING: 1,162,700.70
EASTING: 2,559,456.70
GS ELEVATION: 408.8
TOC ELEVATION: 411.20 ft

DEPTH W.L.: 25.93
ELEVATION W.L.: 382.87
DATE W.L.: 2/14/18
TIME W.L.:

DEPTH (ft)	ELEVATION (ft)	DESCRIPTION	USCS	GRAPHIC LOG	ELEV. / DEPTH (ft)	SAMPLE NO.	TYPE	REC	MONITORING WELL/ PIEZOMETER DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
45	365	15.00 - 75.00 Saprolite, silty Sand, reddish brown to grayish brown with intermediate white mottling, relic structure, micaceous, dry to moist, non *(Continued)*	SM							
50	360									
55	355									
60	350									
65	345									
70	340									
75	335				333.8 / 75.00					
80	330	75.00 - 92.00 Partially Weathered Rock, shows in sample as Sand with trace gravel and silt, grayish brown with white mottling, micaceous, relic foliation where preserved, dry, non-cohesive.	SP						3/8" PEL-PLUG Bentonite Pellets FilterSil	

Log continued on next page

WELL CASING
Interval: 0-81.6
Material: Schedule 40 PVC
Diameter: 2"
Joint Type: Screw

WELL SCREEN
Interval: 81.6-91.6
Material: 0.010" Slotted Schedule 40 PVC
Diameter: 2"
Slot Size: 0.010"
End Cap: 91.6-92

FILTER PACK
Interval: 80-93
Type: FilterSil

FILTER PACK SEAL
Interval: 75-80
Type: 3/8" PEL-PLUG Bentonite Pellets

ANNULUS SEAL
Interval: 0-75
Type: Portland Cement/Quikrete grout mix

WELL COMPLETION
Pad: 4'x4'
Protective Casing: 4"x4"x5'

DRILLING METHODS
Soil Drill: Rotosonic
Rock Drill: Core

LOG SCALE: 1 in = 5 ft
DRILLING COMPANY: Cascade
DRILLER: Matt Pope

GA INSPECTOR: David Hannam
CHECKED BY: Rachel P. Kirkman, P.G.
DATE: 5/31/18

GOLDER

Location resurveyed June - July 2020

RECORD OF BOREHOLE PZ-47/BRGWC-47

SHEET 3 of 3

PROJECT: Plant Branch
PROJECT NUMBER: 1666254-01
DRILLED DEPTH: 97.00 ft
LOCATION: Between Pond B

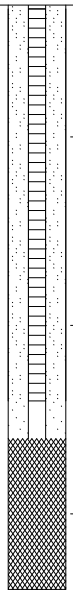
DRILL RIG: Pro Sonic 150
DATE STARTED: 1/25/18
DATE COMPLETED: 1/26/18

NORTHING: 1,162,700.70
EASTING: 2,559,456.70
GS ELEVATION: 408.8
TOC ELEVATION: 411.20 ft

DEPTH W.L.: 25.93
ELEVATION W.L.: 382.87
DATE W.L.: 2/14/18
TIME W.L.:

DEPTH (ft)	ELEVATION (ft)	DESCRIPTION	USCS	GRAPHIC LOG	ELEV. / DEPTH (ft)	SAMPLE NO.	TYPE	REC
85	325	75.00 - 92.00 Partially Weathered Rock, shows in sample as Sand with trace gravel and silt, grayish brown with white mottling, micaceous, relic foliation where preserved, dry, non-cohesive. *(Continued)*	SP					
90	320				316.8 / 92.00			
95	315	92.00 - 97.00 BIOTITE GNEISS, sample recovered as rock flour, cobbles, and gravel. Slightly weathered to fresh, white and black, thinly bedded, phaneritic, strong.	GP		311.8			
100	310	Boring completed at 97.00 ft						
105	305							
110	300							
115	295							
120	290							

MONITORING WELL/ PIEZOMETER DIAGRAM and NOTES



WELL CONSTRUCTION DETAILS

WELL CASING
Interval: 0-81.6
Material: Schedule 40 PVC
Diameter: 2"
Joint Type: Screw

WELL SCREEN
Interval: 81.6-91.6
Material: 0.010" Slotted Schedule 40 PVC
Diameter: 2"
Slot Size: 0.010"
End Cap: 91.6-92

FILTER PACK
Interval: 80-93
Type: FilterSil

FILTER PACK SEAL
Interval: 75-80
Type: 3/8" PEL-PLUG Bentonite Pellets

ANNULUS SEAL
Interval: 0-75
Type: Portland Cement/Quikrete grout mix

WELL COMPLETION
Pad: 4'x4'
Protective Casing: 4"x4"x5'

DRILLING METHODS
Soil Drill: Rotosonic
Rock Drill: Core

LOG SCALE: 1 in = 5 ft
DRILLING COMPANY: Cascade
DRILLER: Matt Pope

GA INSPECTOR: David Hannam
CHECKED BY: Rachel P. Kirkman, P.G.
DATE: 5/31/18

GOLDER

BOREHOLE RECORD 1666254-01 (1)_SURVEY UPDATED.GPJ PIEDMONT.GDT 8/21/20

Location resurveyed June - July 2020

RECORD OF BOREHOLE PZ-50/BRGWC-50

PROJECT: Plant Branch
PROJECT NUMBER: 1666254-01
DRILLED DEPTH: 67.00 ft
LOCATION: South boundary of site

DRILL RIG: Pro Sonic 150
DATE STARTED: 1/31/18
DATE COMPLETED: 1/31/18

NORTHING: 1,161,593.30
EASTING: 2,562,372.90
GS ELEVATION: 378.8
TOC ELEVATION: 381.35 ft

DEPTH W.L.: 37.68
ELEVATION W.L.: 341.12
DATE W.L.: 2/14/19
TIME W.L.:

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE: DESCRIPTION	USCS	GRAPHIC LOG	ELEV. / DEPTH (ft)	SAMPLES: SAMPLE NO.	TYPE	REC	MONITORING WELL/ PIEZOMETER DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
0	375	0.00 - 7.00 Soil removed by Hydrovac from 0-7 ft bgs, but logged by sight. silty Sand, reddish brown, micaceous, moist, non-cohesive.	SM		371.8 / 7.00				Grout mix and stainless steel casing	**WELL CASING** Interval: 0-54.6 Material: Schedule 40 PVC Diameter: 2" Joint Type: Screw **WELL SCREEN** Interval: 54.6-64.6 Material: 0.010" Slotted Schedule 40 PVC Diameter: 2" Slot Size: 0.010" End Cap: 64.6-65 **FILTER PACK** Interval: 53-66 Type: FilterSil **FILTER PACK SEAL** Interval: 48-53 Type: 3/8" PEL-PLUG Bentonite Pellets **ANNULUS SEAL** Interval: 0-48 Type: Portland Cement/Quikrete grout mix **WELL COMPLETION** Pad: 4'x4' Protective Casing: 4"x4"x5' **DRILLING METHODS** Soil Drill: Rotosonic Rock Drill: Core
5										
10	370	7.00 - 47.00 Residuum, silty Sand, reddish brown, micaceous, non-cohesive, moist.								
15	365									
20	360									
25	355		SM							
30	350								Portland cement/Quikrete grout mix	
35	345									
40	340									

Log continued on next page

LOG SCALE: 1 in = 5 ft
DRILLING COMPANY: Cascade
DRILLER: Matt Pope

GA INSPECTOR: David Hannam
CHECKED BY: Rachel P. Kirkman, P.G.
DATE: 5/31/18

GOLDER

BOREHOLE RECORD 1666254-01 (1)_SURVEY UPDATED.GPJ PIEDMONT.GDT 8/21/20

Location resurveyed June - July 2020

RECORD OF BOREHOLE PZ-50/BRGWC-50

SHEET 2 of 2

PROJECT: Plant Branch
PROJECT NUMBER: 1666254-01
DRILLED DEPTH: 67.00 ft
LOCATION: South boundary of site

DRILL RIG: Pro Sonic 150
DATE STARTED: 1/31/18
DATE COMPLETED: 1/31/18

NORTHING: 1,161,593.30
EASTING: 2,562,372.90
GS ELEVATION: 378.8
TOC ELEVATION: 381.35 ft

DEPTH W.L.: 37.68
ELEVATION W.L.: 341.12
DATE W.L.: 2/14/19
TIME W.L.:

DEPTH (ft)	ELEVATION (ft)	DESCRIPTION	USCS	GRAPHIC LOG	ELEV. / DEPTH (ft)	SAMPLE NO.	TYPE	REC	MONITORING WELL/ PIEZOMETER DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
45	335	7.00 - 47.00 Residuum, silty Sand, reddish brown, micaceous, non-cohesive, moist. *(Continued)*	SM							
					331.8 47.00					
50	330	47.00 - 60.00 Residuum, Sand with trace gravel, some relic structure, light reddish brown, moist, non-cohesive.	SP						3/8" PEL-PLUG Bentonite Pellets	
55	325								FilterSil	
60	320				318.8 60.00				0.010" Slotted Schedule 40 PVC	
65	315	60.00 - 67.00 BIOTITE GNEISS, slightly weathered to fresh, subhorizontal foliation, white/black, phaneritic, moderately strong to strong.								
					311.8				3/8" PEL-PLUG Bentonite Pellets	
		Boring completed at 67.00 ft								
70	310									
75	305									
80	300									

WELL CASING
Interval: 0-54.6
Material: Schedule 40 PVC
Diameter: 2"
Joint Type: Screw

WELL SCREEN
Interval: 54.6-64.6
Material: 0.010" Slotted Schedule 40 PVC
Diameter: 2"
Slot Size: 0.010"
End Cap: 64.6-65

FILTER PACK
Interval: 53-66
Type: FilterSil

FILTER PACK SEAL
Interval: 48-53
Type: 3/8" PEL-PLUG Bentonite Pellets

ANNULUS SEAL
Interval: 0-48
Type: Portland Cement/Quikrete grout mix

WELL COMPLETION
Pad: 4'x4'
Protective Casing: 4"x4"x5'

DRILLING METHODS
Soil Drill: Rotosonic
Rock Drill: Core

LOG SCALE: 1 in = 5 ft
DRILLING COMPANY: Cascade
DRILLER: Matt Pope

GA INSPECTOR: David Hannam
CHECKED BY: Rachel P. Kirkman, P.G.
DATE: 5/31/18

GOLDER

BOREHOLE RECORD 1666254-01 (1)_SURVEY UPDATED.GPJ PIEDMONT.GDT 8/21/20

Location resurveyed June - July 2020

RECORD OF BOREHOLE PZ-52I/BRGWC-52I

SHEET 1 of 2

PROJECT: Plant Branch
PROJECT NUMBER: 1666254-01
DRILLED DEPTH: 75.00 ft
LOCATION: SE of Pond B

DRILL RIG: 8140LC
DATE STARTED: 8/6/18
DATE COMPLETED: 8/6/18

NORTHING: 1,161,275.00
EASTING: 2,562,145.30
GS ELEVATION: 381.2
TOC ELEVATION: 383.87 ft

DEPTH W.L.: 35.99
ELEVATION W.L.: 345.21
DATE W.L.: 8/9/2018
TIME W.L.: 11:45:00

DEPTH (ft)	ELEVATION (ft)	DESCRIPTION	USCS	GRAPHIC LOG	ELEV. / DEPTH (ft)	SAMPLE NO.	TYPE	REC
0		0.00 - 8.00 Soil was hydrovacuum to 8 feet			373.2			
	380				8.00			
		8.00 - 10.00 Loss of material			371.2			
10		10.00 - 18.00 sandy SILT w/ trace gravel, fine to coarse, weathered, micaceous, fill, moist to dry, loose to compact, non-cohesive	MLS		10.00	S - 1	ROTO SONIC	4.00 / 10.00
	370				363.2			
15					18.00			
	365	18.00 - 20.00 sandy SILT, fine to coarse, weathered, dry, loose, non-cohesive, trace gravel at bottom	MLS		361.2			
20		20.00 - 26.00 sandy SILT with trace gravel, dark brown, micaceous, sand/gravel fine to coarse, loose to compact	MLS		20.00	S - 2	ROTO SONIC	7.00 / 10.00
	360				355.2			
25					26.00			
	355	26.00 - 30.00 sandy SILT with trace gravel, grey to brown, less micaceous, sand/gravel fine to coarse, moist, compact	MLS		351.2			
30		30.00 - 32.50 sandy SILT with trace gravel, red, sand/gravel fine to coarse, moist, compact, non-cohesive,high plasticity	MLS		30.00			
	350				348.7			
		32.50 - 37.00 CLAY with some sand, RED, cohesive, w>PL, stiff to very stiff, sand fine to coarse, high plasticity	CH		32.50	S - 3	ROTO SONIC	10.00 / 10.00
35					344.2			
	345				37.00			
		37.00 - 40.00 sandy SILT, red, w>PL, soft to firm,sand fine to coarse, cohesive, high plasticity	MLS		341.2			
40		Log continued on next page						

MONITORING WELL/ PIEZOMETER DIAGRAM and NOTES

WELL CONSTRUCTION DETAILS

WELL CASING
Interval: 0-73.9'
Material: Schedule 40 PVC
Diameter: 2"
Joint Type: Flush/Screen

WELL SCREEN
Interval: 63.9-73.9'
Material: 0.010" Slotted Schedule 40 PVC Pre-Pack Screen
Diameter: 2
Slot Size: 0.010
End Cap: 73.9

FILTER PACK
Interval: 59.7-73.9
Type: FilterSil

FILTER PACK SEAL
Interval: 50.4-59.7'
Type: 3/8" PEL-PLUG

ANNULUS SEAL
Interval: 0.50.4'
Type: Portland Cement and Quick Gel Bentonite Mix

WELL COMPLETION
Pad: 4' x 4'
Protective Casing: 4" x 4" x 5'

DRILLING METHODS
Soil Drill: Geoprobe
Rock Drill: None

LOG SCALE: 1 in = 5 ft
DRILLING COMPANY: Cascade Environmental, LLC
DRILLER: M.Rodriguez

GA INSPECTOR: Ben Hodges
CHECKED BY: Rachel Kirkman, PG
DATE: 9/6/18

GOLDER

BOREHOLE RECORD PLANT_BRANCH_20200603_SURVEY UPDATED-ATL1-L-BSTEELE.GPJ PIEDMONT.GDT 8/21/20

Location resurveyed June - July 2020

RECORD OF BOREHOLE PZ-52I/BRGWC-52I

SHEET 2 of 2

PROJECT: Plant Branch
PROJECT NUMBER: 1666254-01
DRILLED DEPTH: 75.00 ft
LOCATION: SE of Pond B

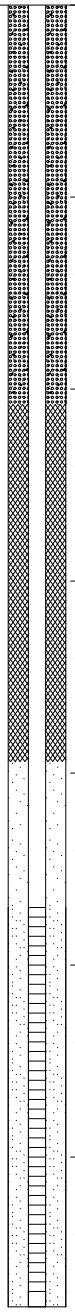
DRILL RIG: 8140LC
DATE STARTED: 8/6/18
DATE COMPLETED: 8/6/18

NORTHING: 1,161,275.00
EASTING: 2,562,145.30
GS ELEVATION: 381.2
TOC ELEVATION: 383.87 ft

DEPTH W.L.: 35.99
ELEVATION W.L.: 345.21
DATE W.L.: 8/9/2018
TIME W.L.: 11:45:00

DEPTH (ft)	ELEVATION (ft)	DESCRIPTION	USCS	GRAPHIC LOG	ELEV. / DEPTH (ft)	SAMPLE NO.	TYPE	REC
40		40.00 - 45.00 silty SAND with trace gravel and clay, light grey to brown , sand/gravel fine to coarse, non-cohesive, compact to dense, wet	GM		40.00			
	340				336.2	S - 4	ROTO SONIC	10.00 / 10.00
45		45.00 - 47.50 Sandy Clay, red, cohesive, very stiff w> PL, sand, fine, high plasticity	SC		45.00			
	335				333.7			
		47.50 - 50.00 Sandy Clay with trace gravel, red, fine to coarse, cohesive, very firm to stiff, w > PL to w ~ PL, high plasticity	SC		47.50			
50					331.2			
	330	50.00 - 60.00 BIOTITE GNEISS, fresh to weathered, medium to coarse, banding, black/white, weak to strong	BR		50.00	S - 5	ROTO SONIC	3.00 / 3.00
55						S - 6	ROTO SONIC	2.30 / 7.00
	325							
60					321.2			
	320	60.00 - 70.00 BIOTITE GNEISS, fresh, banded coarse and fine grain, black/white, very strong	BR		60.00	S - 7	ROTO SONIC	6.00 / 10.00
65								
	315							
70					311.2			
	310	70.00 - 75.00 BIOTITE GNEISS, fresh, banded coarse and fine grain, black/white, very strong	BR		70.00	S - 8	ROTO SONIC	0.00 / 5.00
75					306.2			
	305	Boring completed at 75.00 ft						
80								

MONITORING WELL/ PIEZOMETER DIAGRAM and NOTES



WELL CONSTRUCTION DETAILS

WELL CASING
Interval: 0-73.9'
Material: Schedule 40 PVC
Diameter: 2"
Joint Type: Flush/Screen

WELL SCREEN
Interval: 63.9-73.9'
Material: 0.010" Slotted Schedule 40 PVC Pre-Pack Screen
Diameter: 2
Slot Size: 0.010
End Cap: 73.9

FILTER PACK
Interval: 59.7-73.9
Type: FilterSil

FILTER PACK SEAL
Interval: 50.4-59.7'
Type: 3/8" PEL-PLUG

ANNULUS SEAL
Interval: 0.50.4'
Type: Portland Cement and Quick Gel Bentonite Mix

WELL COMPLETION
Pad: 4' x 4'
Protective Casing: 4" x 4" x 5'

DRILLING METHODS
Soil Drill: Geoprobe
Rock Drill: None

LOG SCALE: 1 in = 5 ft
DRILLING COMPANY: Cascade Environmental, LLC
DRILLER: M.Rodriguez

GA INSPECTOR: Ben Hodges
CHECKED BY: Rachel Kirkman, PG
DATE: 9/6/18

GOLDER

BOREHOLE RECORD PLANT_BRANCH_20200603_SURVEY UPDATED-ATL1-L-BSTEELE.GPJ PIEDMONT.GDT 8/21/20

RECORD OF BOREHOLE IW-B-1

SHEET 1 of 1

PROJECT: SCS Plant Branch
PROJECT NUMBER: 166-093901
DRILLED DEPTH: 45.00 ft
LOCATION: Milledgville, GA

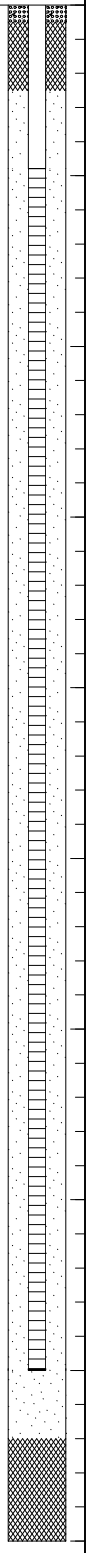
DRILL RIG: TS-150 Track Mounted Rig
DATE STARTED: 7/13/16
DATE COMPLETED: 7/13/16

NORTHING: 1,161,099.78
EASTING: 2,561,471.97
GS ELEVATION: 376.06
TOC ELEVATION: 378.99 ft

DEPTH W.L.:15.27
G.W. ELEVATION:363.72
DATE W.L.:7/24/2016
TIME W.L.:06:50

DEPTH (ft)	ELEVATION (ft)	DESCRIPTION	USCS	GRAPHIC LOG	ELEV. / DEPTH (ft)	SAMPLE NO.	TYPE	REC
0	375	0.00 - 2.00 TOPSOIL, SILT, non-plastic fines, some fine-medium angular sand, some organics (roots); dark yellowish brown (10YR 2/2) to light brown (5YR 5/6); non-cohesive, moist, loose	ML		374.06 2.00			
		2.00 - 7.00 FILL, SAND, fine to coarse sub-angular sand; light dark gray (N3), some weathered micaceous grains, ASH; non-cohesive, dry, loose	SW			1		6.30 10.00
5	370				369.06 7.00			
		7.00 - 12.00 FILL, Sandy SILT, non-plastic fines, fine sand; dark gray (N2), some 1 cm thick laminated layers, ASH; non-cohesive, moist, compact	ML					
10	365				364.06 12.00			
		12.00 - 38.00 FILL, SAND, fine poorly graded sand, trace sub-rounded fine gravels, trace non-plastic fines; grayish black (N2), ASH; non-cohesive, moist, compact				2		3.10 10.00
15	360							
20	355	20.00: wet, trace weathered micaceous grains						
		24.00: no micaceous weathered grains	SP			3		9.30 10.00
25	350							
30	345					4		10.00 10.00
35	340				338.06 38.00			
		38.00 - 40.00 FILL, SILTY SAND, fine poorly graded sand, non-plastic fines; medium dark gray (N4) mottled brownish grey (5YR 4/1), ASH; non-cohesive, wet, compact	SM		336.06 40.00			
40	335	40.00 - 45.00 SILTY CLAY, low to medium plasticity fines, some medium to coarse sub-angular sand, some fine to coarse sub-angular gravels; moderate reddish brown (10YR 4/6), highley weathered (W4), some weathered micaceous grains, SAPROLITE; cohesive, w~PL, very stiff	CL			5		4.60 5.00
45					331.06			
		Boring completed at 45.00 ft						

MONITORING WELL/ PIEZOMETER DIAGRAM and NOTES



WELL CONSTRUCTION DETAILS

WELL CASING
Interval: 0.0'-4.9'
Material: Schedule 40 PVC
Diameter: 2"
Joint Type: Threaded

WELL SCREEN
Interval: 4.9'-39.9
Material: Schedule 40 PVC
Diameter: 2"
Slot Size: 0.010"
End Cap: Schedule 40 PVC

FILTER PACK
Interval: 2.5'-42.0
Type: #1 Sand

FILTER PACK SEAL
Interval: 0.5'-2.5'
Type: 3/8" Bentonite Pellets

ANNULUS SEAL
Interval: 0'-0.5'
Type: Concrete

WELL COMPLETION
Pad: 4'x4'x4"
Protective Casing: Anodized Aluminum

DRILLING METHODS
Soil Drill: 4-inch Sonic
Rock Drill: N/A

LOG SCALE: 1 in = 5.5 ft
DRILLING COMPANY: Cascade Drilling
DRILLER: Trenton Herod

GA INSPECTOR: Jeffrey Ingram
CHECKED BY: Rachel P. Kirkman, P.G.
DATE: 9/13/16

Golder Associates

BOREHOLE RECORD PLAT BRANCH LOGS.GPJ PIEDMONT.GDT 9/14/16

RECORD OF BOREHOLE IW-B-2

SHEET 1 of 1

PROJECT: SCS Plant Branch
PROJECT NUMBER: 166-093901
DRILLED DEPTH: 17.00 ft
LOCATION: Milledgville, GA

DRILL RIG: TS-150 Track Mounted Rig
DATE STARTED: 7/26/16
DATE COMPLETED: 7/26/16

NORTHING: 1,162,629.57
EASTING: 2,560,233.96
GS ELEVATION: 378.47
TOC ELEVATION: 381.34 ft

DEPTH W.L.:3.41
G.W. ELEVATION:377.93
DATE W.L.:7/26/2016
TIME W.L.:10:00

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE: DESCRIPTION	USCS	GRAPHIC LOG	ELEV. / DEPTH (ft)	SAMPLES: SAMPLE NO.	TYPE	REC	MONITORING WELL/ PIEZOMETER DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
0		0.00 - 10.00 Hydrovac (No Recovery)							Concrete 3/8" Bentonite Pellets #1 Sand	**WELL CASING** Interval: 0'-6' Material: Schedule 40 PVC Diameter: 2" Joint Type: Threaded **WELL SCREEN** Interval: 6'-16' Material: Schedule 40 PVC Diameter: 2" Slot Size: 0.010" End Cap: Schedule 40 PVC **FILTER PACK** Interval: 3.8'-17.0' Type: #1 Sand **FILTER PACK SEAL** Interval: 1.8'-3.8' Type: 3/8" Bentonite Pellets **ANNULUS SEAL** Interval: 0'-1.8' Type: Concrete **WELL COMPLETION** Pad: 4'x4'x4" Protective Casing: Anodized Aluminum **DRILLING METHODS** Soil Drill: 4-inch Sonic Rock Drill: N/A
5	375		NA			1		0.00 / 10.00		
10	370				368.47					
		10.00 - 17.00 Sandy SILT; dark grey; moist, soft	ML		10.00	2		NA / 7.00	0.010" Screen Slot	
15	365				361.47				#1 Sand - End Cap #1 Sand	
		Boring completed at 17.00 ft								
20	360									
25	355									
30	350									
35	345									
40	340									
45	335									

LOG SCALE: 1 in = 5.5 ft
DRILLING COMPANY: Cascade Drilling
DRILLER: Trenton Herod

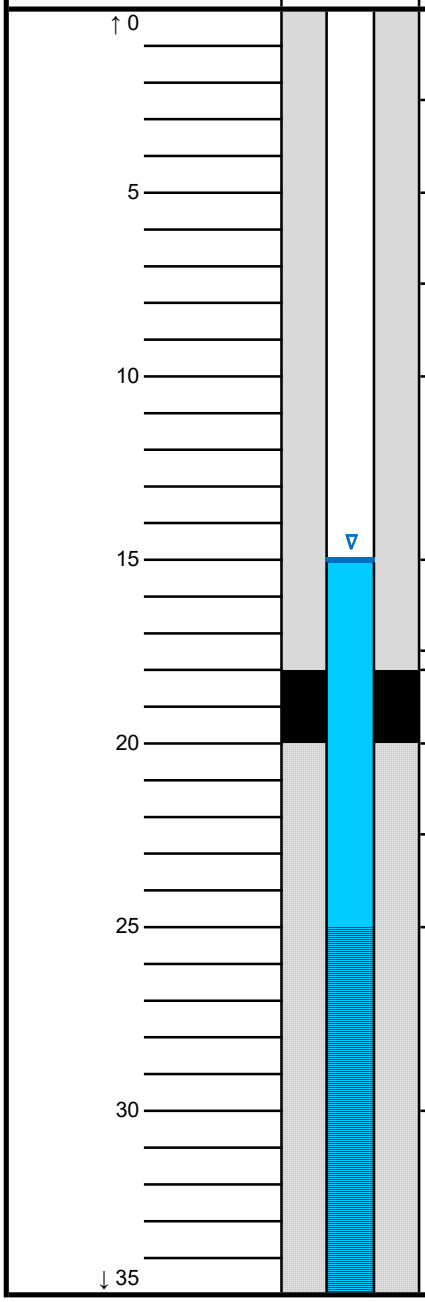
GA INSPECTOR: Aubrey Ellis
CHECKED BY: Rachel P. Kirkman, P.G.
DATE: 9/13/16

Golder Associates

BOREHOLE RECORD PLAT BRANCH LOGS.GPJ PIEDMONT.GDT 9/14/16

BORING LOG: MW-C1-06

SITE:	**Plant Branch**	LOCATION:	**Milledgeville, GA**
BORING NO.:	**MW-C1-06**	BORING DATE:	**30-Jan-2018**
METHOD:	**DPT / HSA**	BIT DIA.:	**6.5"**
TOTAL DEPTH:	**35 ft BGS**	GROUND EL.:	**Not Surveyed**
DRILLING CO.:	**Geo-Lab**	START TIME:	**1445**
DRILLER:	**Mike & Lat**	RIG:	**Trackmount**
LOGGER:	**Robert Mull**	REVIEWER:	**Michael Patinkin**



LITHOLOGICAL DESCRIPTION	COMMENTS
0 - 0.3 ft - moss, grass, sandy topsoil, brown	2.3 ft recovery PID: 5.8 ppm
0.3 - 2.3 ft - Sandy silt with pockets of Silty clay, brown	
5 - 7.5 ft - Clayey silt, red brown	3.1 ft recovery PID: 2.5 ppm
7.5 - 8.1 ft - Sandy silt, brown, tan	
10 - 13.7 ft - Silty clay and Clayey silt, red brown; pieces of gravel randomly distributed; moist bottom 0.5 ft	3.7 ft recovery PID: 3.6 ppm
15 - 18.4 ft - Clayey silt, brown red	4.2 ft recovery PID: 2.0 ppm
18.4 ft - Wet brown clay	
18.4 - 19.2 ft - Sandy silt, brown; wet	
20 - 22.7 ft - Clayey silt, brown to red; wet	4.2 ft recovery Wet
22.7 - 24.2 ft - Sandy silt, gray to brown; wet	
25 - 29.5 ft - Sandy silt, brown red; wet	4.5 ft recovery Wet
DPT boring terminated @ 30 ft bgs HSA boring terminated / bottom of well @ 35 ft bgs top of screen @ 25 ft bgs sand to 20 ft bgs bentonite seal 18 - 20 ft bgs grout to surface	

BORING LOG: MW-C2-02

SITE:	**Plant Branch**	LOCATION:	**Milledgeville, GA**
BORING NO.:	**MW-C2-02**	BORING DATE:	**30-Jan-2018**
METHOD:	**DPT / HSA**	BIT DIA.:	**6.5"**
TOTAL DEPTH:	**56.5 ft BGS**	GROUND EL.:	**Not Surveyed**
DRILLING CO.:	**Geo-Lab**	START TIME:	**0935**
DRILLER:	**Mike & Lat**	RIG:	**Trackmount**
LOGGER:	**Robert Mull**	REVIEWER:	**Michael Patinkin**

DEPTH FEET BELOW GROUND SURFACE (BGS) | WELL CONSTRUCTION DIAGRAM

LITHOLOGICAL DESCRIPTION	COMMENTS
0 - 1.1 ft - Red, brown silty clay, Fill, moist	3.4 ft recovery PID: 300.0 ppm
1.1 - 3.4 ft - Sand, gray, white, black; petroleum odor	
5 - 9 ft - Sandy silt, gray, black, white; petroleum odor	5 ft recovery PID: 197.7 ppm
9 - 10 ft - Clayey silt, red to brown; slight petroleum odor	
5 - 9 ft - Sandy silt, gray, black, white; petroleum odor	5 ft recovery PID: 4.7 ppm
13.5 - 14.5 ft - Silty clay, red	
14.5 - 15 ft - Clayey silt, brown	
15 - 19.4 ft - Clayey silt, brown, gray, red; some weathered rock	4.4 ft recovery PID: 2.1 ppm
20 - 24.5 ft - Clayey silt, dark brown; leads to silty clay, red	5 ft recovery PID: 10.4 ppm
24.5 - 25 ft - Sandy silt, red orange	
25 - 26 ft - Sandy silt, red; pocket of mica rich at bottom	4 ft recovery PID: 5.7 ppm
26 - 29 ft - Clayey silt, red orange; Saporlite, brown, tan, orange	
30 - 33.4 ft - Saporlite, silt to sandy silt where less weatherd, brown, tan, orange	3.4 ft recovery PID: 3.6 ppm
35 - 38.3 ft - Silt, mica rich, brown, tan, orange	4.4 ft recovery PID: 5.7 ppm
38.3 - 39.4 ft - Saporlite, silty sand, white. Black, gray	

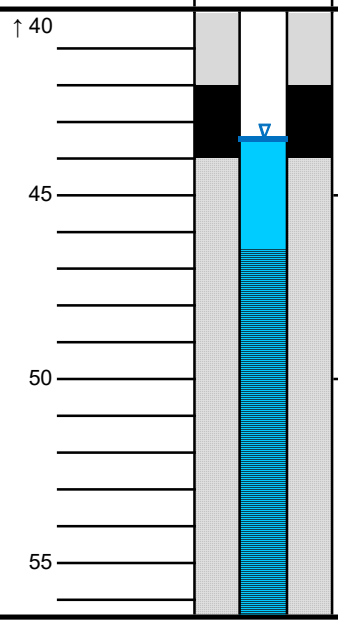
↑ 0 5 10 15 20 25 30 35 ↓ 40

BORING LOG: MW-C2-02

SITE:	**Plant Branch**	LOCATION:	**Milledgeville, GA**
BORING NO.:	**MW-C2-02**	BORING DATE:	**30-Jan-2018**
METHOD:	**DPT / HSA**	BIT DIA.:	**6.5"**
TOTAL DEPTH:	**56.5 ft BGS**	GROUND EL.:	**Not Surveyed**
DRILLING CO.:	**Geo-Lab**	START TIME:	**0935**
DRILLER:	**Mike & Lat**	RIG:	**Trackmount**
LOGGER:	**Robert Mull**	REVIEWER:	**Michael Patinkin**

DEPTH FEET BELOW GROUND SURFACE (BGS)

WELL CONSTRUCTION DIAGRAM



LITHOLOGICAL DESCRIPTION	COMMENTS
40 - 44 ft - Saporlite; Silt, sandy silt and sand with less weathered material	4 ft recovery PID: 3.1 ppm
45 - 50 ft - Saporlite, silt to sandy silt and sand in less weathered material	5 ft recovery PID: 4.7 ppm
DPT boring terminated @ 50 ft bgs HSA boring terminated / bottom of well @ 56.5 ft bgs top of screen @ 46.5 ft bgs sand to 44 ft bgs bentonite seal 42 - 44 ft bgs grout to surface	

PLANT BRANCH PIEZOMETER LOCATIONS **February 23, 2018**

NAD '83 GEORGIA WEST ZONE

FIELD WORK BY E&CS CIVIL FIELD SERVICES - RUSTY BULLARD AND FRANK KENNEY

PIEZOMETER ID	LATITUDE DD	LONGITUDE DD	NAD 83 NORTHING	NAD 83 EASTING	ELEVATION TOP OF PAD	NAVD 88 ELEVATION TOP OF PVC	ELEVATION OF GROUND	SURVEYOR'S POINT#
MW-C1-06	33.1935167	-83.3004187	1162713.27	2561575.06	NA	381.80	NA	NA
MW-C2-02	33.1927239	-83.2982024	1162430.45	2562255.44	383.27	387.18	383.25	NA

Geosyntec consultants
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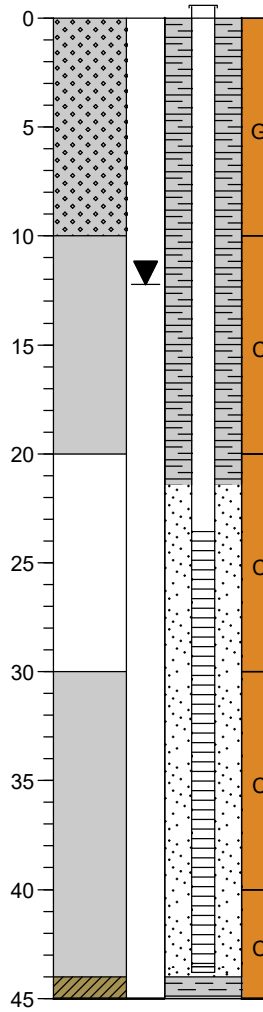
Client: Southern Company Services
Project: Plant Branch Well Install
Address: 1100 Milledgeville Rd, Milledgeville, GA

WELL LOG
Well No. IW-B-03
Page: 1 of 1

Drilling Start Date:	**05/23/2023**	Boring Depth (ft):	**45**	Well Depth (ft TOC):	**43.8**
Drilling End Date:	**05/23/2023**	Boring Diameter (in):	**6**	Well Diameter (in):	**2**
Drilling Company:	**Cascade Drilling**	Sampling Method(s):	**Core Barrel**	Screen Slot (in):	**0.010**
Drilling Method:	**Sonic 4x6**	DTW Post-Installation (ft):	**12.23**	Riser Material:	**Sch 40 PVC**
Drilling Equipment:	**TSI-150C**	Ground Surface Elevation:	**NAV88**	Screen Material:	**Sch 40 PVC U-Pack**
Driller:	**B. Griffis**	Top of Casing Elevation:	**377.72 NAV88**	Seal Material(s):	**Bentonite**
Logged By:	**D. Kegley**	North, East (Y,X):	**1161612.24, 2561277.94**	Filter Pack:	**20/40 Sand**



DEPTH (ft)	Sample Type	Recovery (%)	SOIL/ROCK VISUAL DESCRIPTION	REMARKS	ELEVATION (ft NAV88)
0	GR	20	(0') ASH/BOTTOM ASH; dry.	Hand augered 0-10 feet bgs.	
10	CB	10	(10') FLY ASH; dry.		
20	CB	0	(20') No recovery.	**Filter Pack:** Eight bags 20/40 sand **Top Seal:** 5 bags uncoated bentonite chips	
30	CB	10	(30') FLY ASH; wet.		
40	CB	60	(40') FLY ASH; wet. (42') FLY ASH; mixed with soil, organics. (44') CLAY (CL); reddish-brown, moist, stiff, medium plasticity, micaceous, native soil.		
45			(45') Boring terminated.		

NOTES: Boring cleared with hand auger from 0-10 feet bgs. Well completed aboveground (+3 feet stickup). Well depth measured from the top of casing (TOC).

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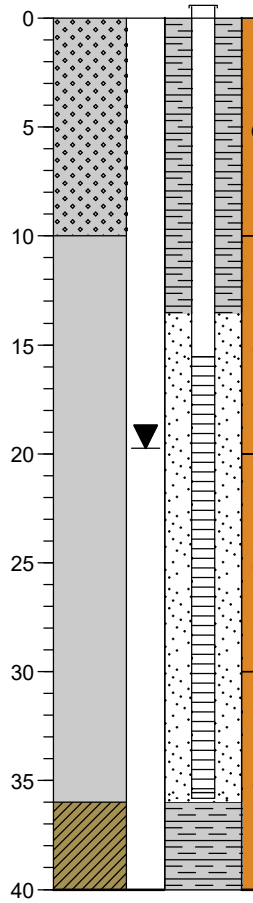
Client: Southern Company Services
Project: Plant Branch Well Install
Address: 1100 Milledgeville Rd, Milledgeville, GA

WELL LOG
Well No. IW-B-04
Page: 1 of 1

Drilling Start Date:	**05/23/2023**	Boring Depth (ft):	**40**	Well Depth (ft TOC):	**35.8**
Drilling End Date:	**05/23/2023**	Boring Diameter (in):	**6**	Well Diameter (in):	**2**
Drilling Company:	**Cascade Drilling**	Sampling Method(s):	**Core Barrel**	Screen Slot (in):	**0.010**
Drilling Method:	**Sonic 4x6**	DTW Post-Installation (ft):	**19.75**	Riser Material:	**Sch 40 PVC**
Drilling Equipment:	**TSI-150C**	Ground Surface Elevation:	**NAV88**	Screen Material:	**Sch 40 PVC U-Pack**
Driller:	**B. Griffis**	Top of Casing Elevation:	**379.34 NAV88**	Seal Material(s):	**Bentonite**
Logged By:	**D. Kegley**	North, East (Y,X):	**1161586.67, 2561485.1**	Filter Pack:	**20/40 Sand**



DEPTH (ft)	Sample Type	Recovery (%)	SOIL/ROCK VISUAL DESCRIPTION	REMARKS
0	GR	30	(0') ASH/BOTTOM ASH; dry.	Hand augered 0-10 feet bgs.
10	CB	60	(10') FLY ASH; dry. (17') Wet.	**Filter Pack:** Seven bags 20/40 sand **Top Seal:** 3 bags of uncoated bentonite chips
20	CB	60	(20') FLY ASH; wet.	
30	CB	70	(30') FLY ASH; wet.	
35			(36') CLAY (CL); reddish-brown, wet, stiff, medium plasticity, micaceous, native soil.	
40			(40') Boring terminated.	

ELEVATION (ft NAV88)

NOTES: Boring cleared with hand auger from 0-10 feet bgs. Well completed aboveground (+3 feet stickup). Well depth measured from the top of casing (TOC).

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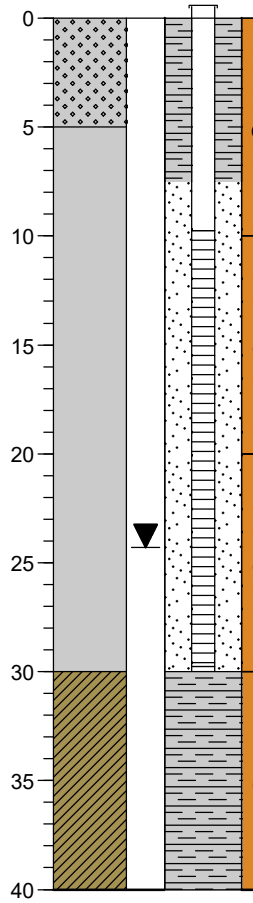
Client: Southern Company Services
Project: Plant Branch Well Install
Address: 1100 Milledgeville Rd, Milledgeville, GA

WELL LOG
Well No. IW-B-05
Page: 1 of 1

Drilling Start Date:	**05/22/2023**	Boring Depth (ft):	**40**	Well Depth (ft TOC):	**30**
Drilling End Date:	**05/22/2023**	Boring Diameter (in):	**6**	Well Diameter (in):	**2**
Drilling Company:	**Cascade Drilling**	Sampling Method(s):	**Core Barrel**	Screen Slot (in):	**0.010**
Drilling Method:	**Sonic 4x6**	DTW Post-Installation (ft):	**24.3**	Riser Material:	**Sch 40 PVC**
Drilling Equipment:	**TSI-150C**	Ground Surface Elevation:	**NAV88**	Screen Material:	**Sch 40 PVC U-Pack**
Driller:	**C. Tindel**	Top of Casing Elevation:	**382.33 NAV88**	Seal Material(s):	**Bentonite**
Logged By:	**D. Kegley**	North, East (Y,X):	**1161559.75, 2561669.23**	Filter Pack:	**20/40 Sand**



DEPTH (ft)	Sample Type	Recovery (%)	SOIL/ROCK VISUAL DESCRIPTION	REMARKS	ELEVATION (ft NAV88)
0	GR	55	(0') BOTTOM ASH dry. (5') FLY ASH; dry.	Hand augered 0-10 feet bgs.	
10	CB	100	(10') FLY ASH; dry.	**Filter Pack:** Eight bags 20/40 sand **Top Seal:** 2 five gallon buckets of coated bentonite pellets	
20	CB	70	(20') Damp.		
30	CB	100	(30') CLAY (CL); reddish-brown, damp, medium stiff, medium plasticity, micaceous, native soil.		
40			(40') Boring terminated.		

NOTES: Boring cleared with hand auger from 0-10 feet bgs. Well completed aboveground (+3 feet stickup). Well depth measured from the top of casing (TOC).

RECORD OF BOREHOLE IW-C-1

SHEET 1 of 1

PROJECT: SCS Plant Branch
PROJECT NUMBER: 166-093901
DRILLED DEPTH: 25.00 ft
LOCATION: Milledgville, GA

DRILL RIG: TS-150 Track Mounted Rig
DATE STARTED: 7/15/16
DATE COMPLETED: 7/15/16

NORTHING: 1,161,547.41
EASTING: 2,559,186.94
GS ELEVATION: 395.28
TOC ELEVATION: 398.28 ft

DEPTH W.L.:5.11
G.W. ELEVATION:393.17
DATE W.L.:7/27/2016
TIME W.L.:06:32

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE: DESCRIPTION	USCS	GRAPHIC LOG	ELEV. / DEPTH (ft)	SAMPLES: SAMPLE NO.	TYPE	REC	MONITORING WELL/ PIEZOMETER DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
0	395	0.00 - 1.70 FILL, Sandy SILT, non-plastic fines, fine sand, some organics (roots), trace fine weathered micaceous grains; medium dark gray (N4), some 1 cm thick laminated layers, ASH; non-cohesive, moist, loose	ML		393.58				Concrete	**WELL CASING** Interval: 0.0'-8.9' Material: Schedule 40 PVC Diameter: 2" Joint Type: Threaded
		1.70 - 2.70 FILL, SAND, fine to medium sub-angular sand, trace non-plastic fines, trace fine angular gravel; medium dark gray (N4), ASH; non-cohesive, wet, loose	SP		1.70 392.58 2.70				3/8" Bentonite Chips	
5	390	2.70 - 19.00 FILL, SILTY SAND, fine sand, non-plastic fines, trace fine weathered micaceous grains; medium dark gray (N4) to brownish black (5YR 4/1), ASH; non-cohesive, wet, loose				1		3.60 10.00	3/8" Bentonite Pellets	**WELL SCREEN** Interval: 8.9'-18.9' Material: Schedule 40 PVC Diameter: 2" Slot Size: 0.010" End Cap: Schedule 40 PVC
									#1 Sand	**FILTER PACK** Interval: 6.7'-21.0' Type: #1 Sand
10	385	10.00: mottled black (N1) grains	SM							**FILTER PACK SEAL** Interval: 2.0'-6.7' Type: 6.7'-5.0' 3/8" Bentonite Pellets and 5.0'-2.0' 3/8" Bentonite Chips
									0.010" Screen Slot	**ANNULUS SEAL** Interval: 0'-2' Type: Concrete
15	380					2		8.20 10.00		**WELL COMPLETION** Pad: 4'x4'x4" Protective Casing: Anodized Aluminum
					376.28				#1 Sand - End Cap	**DRILLING METHODS** Soil Drill: 4-inch Sonic Rock Drill: N/A
20	375	19.00 - 21.50 Sandy SILTY CLAY, low to medium plasticity fines, fine to medium sub-rounded sand, trace organics (roots); moderate brown (5YR 3/4), highly weathered (W4), SAPROLITE; cohesive, w<PL, firm	CL		19.00 373.78				#1 Sand	
		21.50 - 25.00 medium plasticity fines, some fine to medium sub-rounded sand, trace weathered micaceous grains; light brown (5YR 5/6) to moderate reddish brown (10R 4/6), highly weathered (W4), SAPROLITE; cohesive, w<PL, firm			21.50 370.28	3		4.10 5.00	3/8" Bentonite Chips	
25	370	Boring completed at 25.00 ft								
30	365									
35	360									
40	355									
45										

LOG SCALE: 1 in = 5.5 ft
DRILLING COMPANY: Cascade Drilling
DRILLER: Trenton Herod

GA INSPECTOR: Jeffrey Ingram
CHECKED BY: Rachel P. Kirkman, P.G.
DATE: 9/13/16

Golder Associates

BOREHOLE RECORD PLAT BRANCH LOGS.GPJ PIEDMONT.GDT 9/14/16

RECORD OF BOREHOLE IW-C-2

SHEET 1 of 1

PROJECT: SCS Plant Branch
PROJECT NUMBER: 166-093901
DRILLED DEPTH: 26.50 ft
LOCATION: Milledgville, GA

DRILL RIG: TS-150 Track Mounted Rig
DATE STARTED: 7/14/16
DATE COMPLETED: 7/14/16

NORTHING: 1,161,523.36
EASTING: 2,559,924.11
GS ELEVATION: 410.77
TOC ELEVATION: 413.63 ft

DEPTH W.L.:5.14
G.W. ELEVATION:408.49
DATE W.L.:7/24/2016
TIME W.L.:06:27

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE DESCRIPTION	USCS	GRAPHIC LOG	ELEV. / DEPTH (ft)	SAMPLES SAMPLE NO.	TYPE	REC	MONITORING WELL/ PIEZOMETER DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
0	410	0.00 - 1.00 TOPSOIL, SILT, non-plastic fines, some fine sand, some organics (roots); medium gray (N5), ASH & SOIL; non-cohesive, dry, loose	ML		409.77 1.00				Concrete	**WELL CASING** Interval: 0.0'-6.0' Material: Schedule 40 PVC Diameter: 2" Joint Type: Threaded
		1.00 - 9.00 FILL, Sandy SILT, non-plastic fines, fine to medium sub-angular sand; medium dark gray (N4) mottled brownish gray (5YR 4/1), some ~1 cm thick silt/sand seams, occasional ~2 inch sand seams, ASH; non-cohesive, moist, loose							3/8" Bentonite Pellets	
5	405		ML			1		4.80 10.00	#1 Sand	**WELL SCREEN** Interval: 6'-26' Material: Schedule 40 PVC Diameter: 2" Slot Size: 0.010" End Cap: Schedule 40 PVC
					401.77					**FILTER PACK** Interval: 4.0'-26.5' Type: #1 Sand
		9.00 - 20.00 FILL, SILTY SAND, fine to medium poorly graded sand, non-plastic fines, trace fine sub-angular gravels, trace weathered micaceous grains; medium dark gray (N4), ASH; non-cohesive, wet, loose			9.00					**FILTER PACK SEAL** Interval: 2.0'-4.0' Type: 3/8" Bentonite Pellets
10	400									**ANNULUS SEAL** Interval: 0'-2' Type: Concrete
										WELL COMPLETION Pad: 4'x4'x4" Protective Casing: Anodized Aluminum
15	395		SM			2		4.90 10.00	0.010" Screen Slot	**DRILLING METHODS** Soil Drill: 4-inch Sonic Rock Drill: N/A
					390.77					
20	390	20.00 - 26.50 FILL, SAND, fine to coarse well graded sub-angular sand, some fine sub-angular gravels, trace non-plastic fines; dark gray (N3), ASH; non-cohesive, wet, compact			20.00	3		1.00 1.00		
			SW			4		2.40 5.50		
25	385				384.27				#1 Sand - End Cap #1 Sand	
		Boring completed at 26.50 ft								
30	380									
35	375									
40	370									
45										

LOG SCALE: 1 in = 5.5 ft
DRILLING COMPANY: Cascade Drilling
DRILLER: Trenton Herod

GA INSPECTOR: Jeffrey Ingram
CHECKED BY: Rachel P. Kirkman, P.G.
DATE: 9/13/16

Golder Associates

BOREHOLE RECORD PLAT BRANCH LOGS.GPJ PIEDMONT.GDT 9/14/16

RECORD OF BOREHOLE IW-D-1

SHEET 1 of 1

PROJECT: SCS Plant Branch
PROJECT NUMBER: 166-093901
DRILLED DEPTH: 16.65 ft
LOCATION: Milledgville, GA

DRILL RIG: TS-150 Track Mounted Rig
DATE STARTED: 7/15/16
DATE COMPLETED: 7/15/16

NORTHING: 1,161,801.53
EASTING: 2,558,614.89
GS ELEVATION: 403.42
TOC ELEVATION: 406.58 ft

DEPTH W.L.:12.00
G.W. ELEVATION:394.58
DATE W.L.:7/24/2016
TIME W.L.:06:20

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE: DESCRIPTION	USCS	GRAPHIC LOG	ELEV. / DEPTH (ft)	SAMPLES: SAMPLE NO.	TYPE	REC	MONITORING WELL / PIEZOMETER DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
0	405	0.00 - 1.70 FILL, Sandy SILT, non-plastic fines, fine sub-angular sand, some organics (roots); medium dark gray (N4) to brownish gray (5YR 4/1), some 1 cm thick laminated beds, ASH; non-cohesive, dry, loose	ML		401.72				Concrete	**WELL CASING** Interval: 0.0'-6.2' Material: Schedule 40 PVC Diameter: 2" Joint Type: Threaded
		1.70 - 2.30 FILL, SAND, fine sub-angular sand, some non-plastic fines; medium gray (N5), ASH; non-cohesive, dry, loose	SP		401.12 2.30				3/8" Bentonite Pellets	
5	400	2.30 - 6.00 FILL, Sandy SILT, non-plastic fines, fine sub-angular sand; medium dark gray (N4) and brownish grey (5YR 4/3), 1 cm thick laminated beds, ASH; non-cohesive, dry, loose	ML		397.42	1		7.90 / 10.00	#1 Sand	**WELL SCREEN** Interval: 6.2'-16.2' Material: Schedule 40 PVC Diameter: 2" Slot Size: 0.010" End Cap: Schedule 40 PVC
		6.00 - 7.20 FILL, SAND, fine sub-angular sand, some non-plastic fines; medium gray (N5), ASH; non-cohesive, dry, loose	SP		6.00 396.22					**FILTER PACK** Interval: 4.0'-16.65' Type: #1 Sand
		7.20 - 8.30 FILL, Sandy SILT, non-plastic fines, fine to medium sub-angular sand; medium gray (N5), ASH; non-cohesive, moist, loose	ML		7.20 395.12 8.30					**FILTER PACK SEAL** Interval: 2.0'-4.0' Type: 3/8" Bentonite Pellets
10	395	8.30 - 10.70 FILL, SAND, fine poorly graded sand, some non-plastic fines; medium gray (N5), ASH; non-cohesive, wet, loose	SP		392.72 10.70					**ANNULUS SEAL** Interval: 0'-2' Type: Concrete
		10.70 - 16.65 FILL, Sandy SILT, non-plastic fines, fine sand; medium dark gray (N4), ASH; non-cohesive, wet, loose	ML			2		3.60 / 6.65	0.010" Screen Slot	**WELL COMPLETION** Pad: 4'x4'x4" Protective Casing: Anodized Aluminum
15	390				386.77				#1 Sand - End Cap	**DRILLING METHODS** Soil Drill: 4-inch Sonic Rock Drill: N/A
		Boring completed at 16.65 ft								
20	385									
25	380									
30	375									
35	370									
40	365									
45	360									

LOG SCALE: 1 in = 5.5 ft
DRILLING COMPANY: Cascade Drilling
DRILLER: Trenton Herod

GA INSPECTOR: Jeffrey Ingram
CHECKED BY: Rachel P. Kirkman, P.G.
DATE: 9/13/16

Golder Associates

BOREHOLE RECORD PLAT BRANCH LOGS.GPJ PIEDMONT.GDT 9/14/16

RECORD OF BOREHOLE IW-D-2

SHEET 1 of 1

PROJECT: SCS Plant Branch
PROJECT NUMBER: 166-093901
DRILLED DEPTH: 31.00 ft
LOCATION: Milledgville, GA

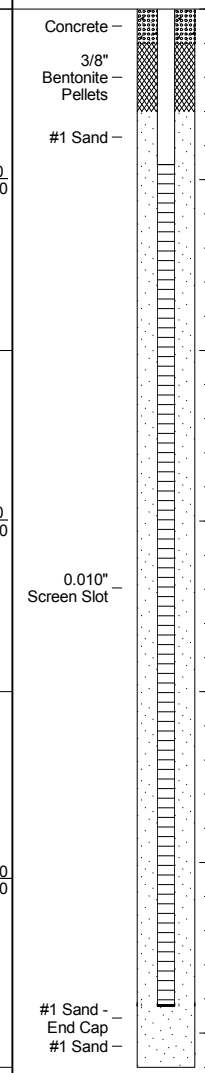
DRILL RIG: TS-150 Track Mounted Rig
DATE STARTED: 7/16/16
DATE COMPLETED: 7/16/16

NORTHING: 1,162,422.38
EASTING: 2,558,298.72
GS ELEVATION: 406.88
TOC ELEVATION: 410.03 ft

DEPTH W.L.:10.23
G.W. ELEVATION:399.80
DATE W.L.:7/24/2016
TIME W.L.:06:20

DEPTH (ft)	ELEVATION (ft)	DESCRIPTION	USCS	ELEV. / DEPTH (ft)	SAMPLE NO.	TYPE	REC
0	405	0.00 - 1.20 Sandy CLAYEY GRAVEL, fine to coarse, angular, gravel (CCR), low plasticity fines, fine to coarse well graded angular sand; grayish black (N2) mottled light brown (5Y5/6), ASH and COAL; non-cohesive, dry, loose	GC	405.68 1.20			
5	400	1.20 - 10.70 SAND, fine to medium sub-angular sand, some coarse angular gravel (coal, ccr and native), trace non-plastic fines; brownish gray (5YR 4/1), ASH; non-cohesive, dry, loose	SP		1		8.00 10.00
10	395	10.70 - 17.00 SAND and SILT, fine poorly graded sand, non-plastic fines; medium gray (N5) to brownish gray (5YR 4/1) mottled black (N1), some ~1 to 5 cm thick laminated layers, ASH; non-cohesive, wet, loose	SP & ML	396.18 10.70	2		5.20 10.00
15	390	17.00 - 29.80 SAND, fine to medium sub-angular sand, non-plastic fines; medium dark gray (N4) mottled black (N1), ASH; non-cohesive, wet, loose	SP	389.88 17.00	3		10.70 11.00
20	385						
25	380						
30	375	29.80 - 31.00 SILTY CLAY, medium plasticity fines, some fine to medium angular to sub-angular sand, light brown (5YR 5/6), Highly weathered (W4), some weathered micaceous grains, SAPROLITE; cohesive, w~PL, firm	CL	377.08 29.80 375.88			
35	370	Boring completed at 31.00 ft					
40	365						
45							

MONITORING WELL/ PIEZOMETER DIAGRAM and NOTES



WELL CONSTRUCTION DETAILS

WELL CASING
Interval: 0.0'-4.7'
Material: Schedule 40 PVC
Diameter: 2"
Joint Type: Threaded

WELL SCREEN
Interval: 4.7'-29.7'
Material: Schedule 40 PVC
Diameter: 2"
Slot Size: 0.010"
End Cap: Schedule 40 PVC

FILTER PACK
Interval: 3.0-31.0
Type: #1 Sand

FILTER PACK SEAL
Interval: 3.0'-1.0'
Type: 3/8" Bentonite Pellets

ANNULUS SEAL
Interval: 0'-1'
Type: Concrete

WELL COMPLETION
Pad: 4'x4'x4"
Protective Casing: Anodized Aluminum

DRILLING METHODS
Soil Drill: 4-inch Sonic
Rock Drill: N/A

LOG SCALE: 1 in = 5.5 ft
DRILLING COMPANY: Cascade Drilling
DRILLER: Trenton Herod

GA INSPECTOR: Jeffrey Ingram
CHECKED BY: Rachel P. Kirkman, P.G.
DATE: 9/13/16

Golder Associates

BOREHOLE RECORD PLAT BRANCH LOGS.GPJ PIEDMONT.GDT 9/14/16

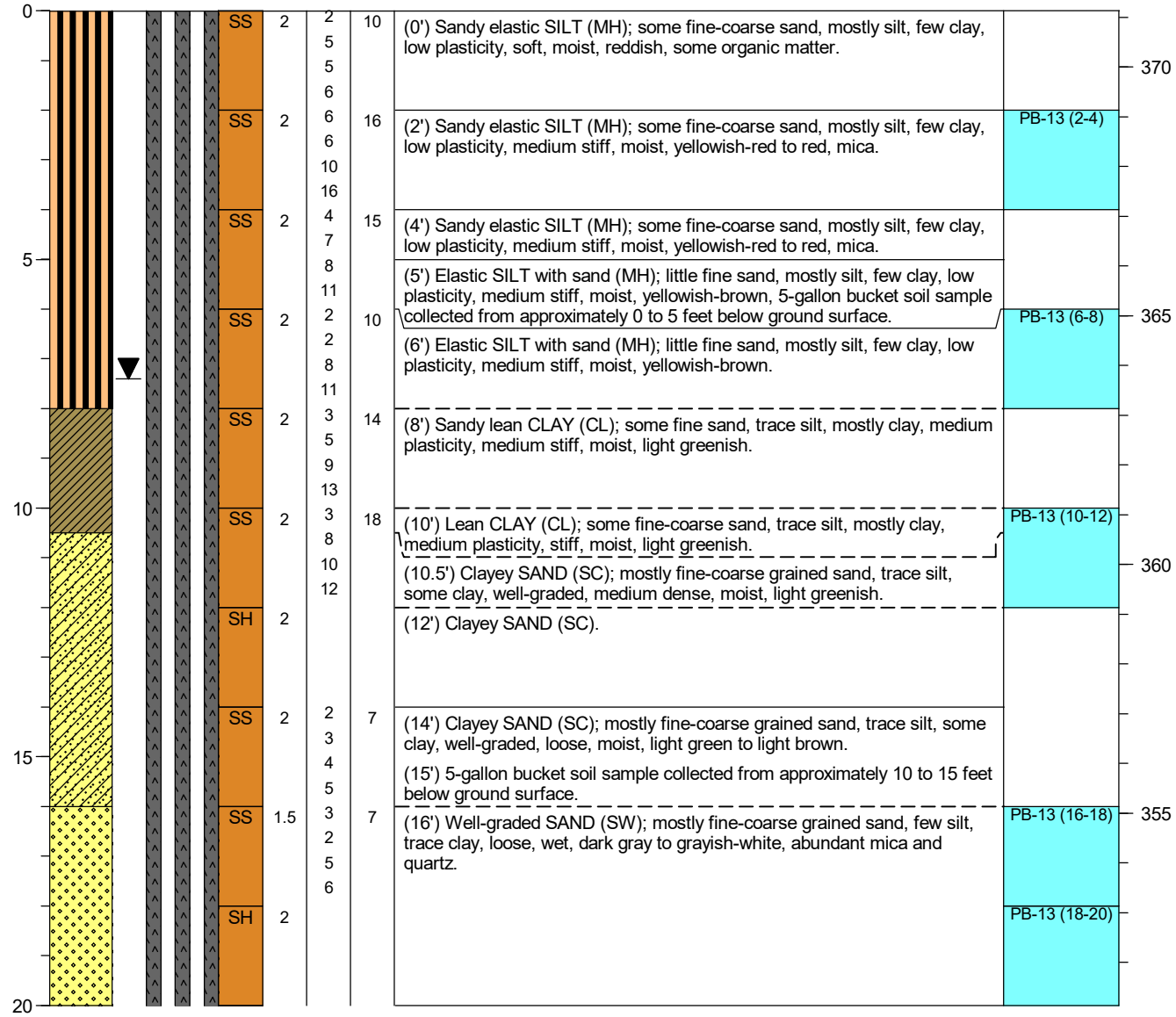
Boring log revised with new survey data dated 7/23/2020.

Geosyntec consultants
engineers | scientists | innovators

Client: Georgia Power Company
Project: Plant Branch CCR Landfill Site Investigation
Address: 1100 Milledgeville Rd, Milledgeville

WELL LOG
Well No. PB-13S/PB-13D
Page: 1 of 6

Drilling Start Date:	12/10/2018	Boring Depth (ft):	107.8	Well Depth (ft):	50/97
Drilling End Date:	12/18/2018	Boring Diameter (in):	6.50	Well Diam. (in)/Screen Slot (in):	2.0/0.010
Drilling Company:	Thompson Engineering	Static Water Level (ft):	7.19/7.74	Riser Material:	Sch 40 PVC
Drilling Method:	Hollow Stem Auger	DTW After Drilling (ft):	7.40/7.40	Screen Material:	Sch 40 PVC Slotted
Drilling Equipment:	D-50	Top of Casing Elev. (ft):	373.31(PB-13S) 373.77(PB-13D)	Sanitary Seal:	Bentonite Pellets
Driller:	Phil Pitts	Ground Elev. (ft):	370.8(PB-13S) 371.1(PB-13D)	Filter Pack:	Sand
Logged By:	Nardos Tilahun	Location (X,Y):	1162084.4, 2556626.1(PB-13S) 1162084.5, 2556638.8(PB-13D)	Sampling Method(s):	SS/SH/CO



NOTES: PB-13S and PB-13D are stickup wells, PB-13S is ~10ft away from PB-13D well. Depth to water at PB-13S is 7.4 feet below ground surface.
NA = Not Applicable

Boring log revised with new survey data dated 7/23/2020.

Geosyntec consultants
engineers | scientists | innovators

Client: Georgia Power Company
Project: Plant Branch CCR Landfill Site Investigation
Address: 1100 Milledgeville Rd, Milledgeville

WELL LOG
Well No. PB-13S/PB-13D
Page: 2 of 6

Drilling Start Date:	12/10/2018	Boring Depth (ft):	107.8	Well Depth (ft):	50/97
Drilling End Date:	12/18/2018	Boring Diameter (in):	6.50	Well Diam. (in)/Screen Slot (in):	2.0/0.010
Drilling Company:	Thompson Engineering	Static Water Level (ft):	7.19/7.74	Riser Material:	Sch 40 PVC
Drilling Method:	Hollow Stem Auger	DTW After Drilling (ft):	7.40/7.40	Screen Material:	Sch 40 PVC Slotted
Drilling Equipment:	D-50	Top of Casing Elev. (ft):	373.31(PB-13S) 373.77(PB-13D)	Sanitary Seal:	Bentonite Pellets
Driller:	Phil Pitts	Ground Elev. (ft):	370.8(PB-13S) 371.1(PB-13D)	Filter Pack:	Sand
Logged By:	Nardos Tilahun	Location (X,Y):	1162084.4, 2556626.1(PB-13S) 1162084.5, 2556638.8(PB-13D)	Sampling Method(s):	SS/SH/CO

DEPTH (ft)	LITHOLOGY	WATER LEVEL	WELL COMPLETION	COLLECT: Sample Type	Recovery (ft)	Blow Counts	N Value RQD (%)	SOIL/ROCK VISUAL DESCRIPTION	MEASURE: Lab Sample	ELEV. (ft msl)
20				SS	1.5	3 5 7 9	12	(20') Silty SAND (SM); mostly fine-medium grained sand, some silt, trace clay, poorly graded, medium dense, wet, light gray.		350
				SS	1.2	4 6 8 11	14	(22') Silty SAND (SM); mostly fine-medium grained sand, some silt, trace clay, poorly graded, medium dense, wet, light gray.		
				SS	0.8	4 7 9 10	16	(24') Well-graded SAND (SW); mostly fine-coarse grained sand, trace silt, trace clay, medium dense, wet, grayish-white, abundant mica, 5-gallon bucket soil sample collected from approximately 20 to 24 feet below ground surface.		
25				SS	1	5 6 9 12	15	(26') Well-graded SAND (SW); mostly fine-coarse grained sand, trace silt, trace clay, medium dense, wet, grayish-white to yellow gray.		345
				SS	0.8	2 5 7 9	12	(28') Well-graded SAND (SW); mostly fine-coarse grained sand, few silt, few clay, medium dense, wet, grayish-white to yellowish-gray, abundant mica and quartz.	PB-13 (28-30)	
30				SH	2				PB-13 (30-32)	340
				SS	0.7	9 13 15 14	28	(32') Well-graded SAND (SW); mostly fine-coarse grained sand, trace silt, trace clay, medium dense, wet, grayish-white to white, abundant mica and quartz.		
				SS	0.8	5 8 15 15	23	(34') Well-graded SAND (SW); mostly fine-coarse grained sand, trace silt, trace clay, medium dense, wet, grayish-white to white, abundant mica and quartz, laminated.		
35				SS	0.8	6 7 10 13	17	(36') Well-graded SAND (SW); mostly fine-coarse grained sand, trace silt, trace clay, medium dense, wet, grayish-white to white, abundant mica and quartz, laminated.		335
				SS	1	6 7 10 13	17	(38') Well-graded SAND (SW); mostly fine-coarse grained sand, trace silt, trace clay, medium dense, wet, grayish-white to white, abundant mica and quartz.		
40										

NOTES: PB-13S and PB-13D are stickup wells, PB-13S is ~10ft away from PB-13D well. Depth to water at PB-13S is 7.4 feet below ground surface.
NA = Not Applicable

Boring log revised with new survey data dated 7/23/2020.

Geosyntec consultants
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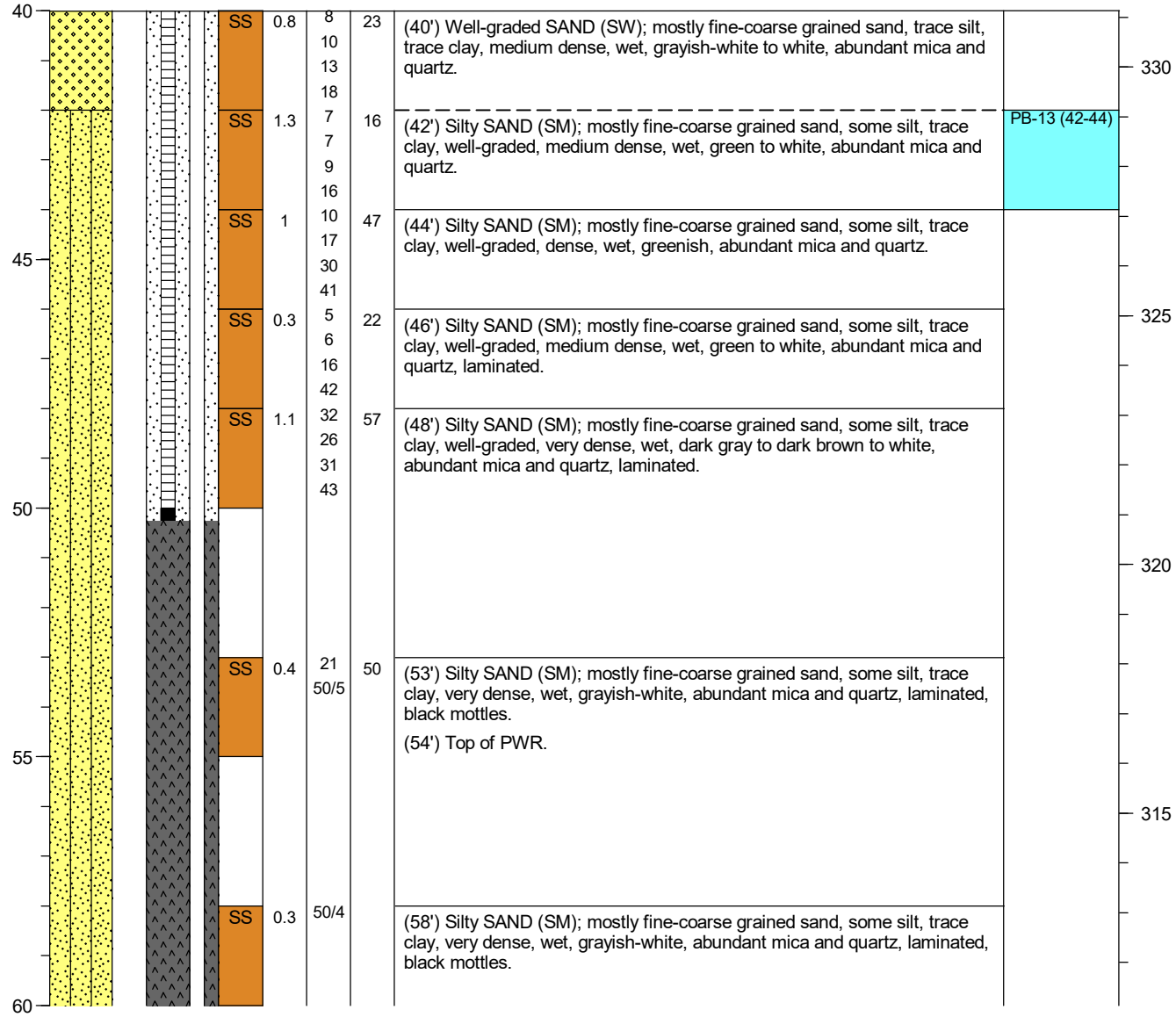
Client: Georgia Power Company
Project: Plant Branch CCR Landfill Site Investigation
Address: 1100 Milledgeville Rd, Milledgeville

WELL LOG
Well No. PB-13S/PB-13D
Page: 3 of 6

Drilling Start Date:	12/10/2018	Boring Depth (ft):	107.8	Well Depth (ft):	50/97
Drilling End Date:	12/18/2018	Boring Diameter (in):	6.50	Well Diam. (in)/Screen Slot (in):	2.0/0.010
Drilling Company:	Thompson Engineering	Static Water Level (ft):	7.19/7.74	Riser Material:	Sch 40 PVC
Drilling Method:	Hollow Stem Auger	DTW After Drilling (ft):	7.40/7.40	Screen Material:	Sch 40 PVC Slotted
Drilling Equipment:	D-50	Top of Casing Elev. (ft):	373.31(PB-13S) 373.77(PB-13D)	Sanitary Seal:	Bentonite Pellets
Driller:	Phil Pitts	Ground Elev. (ft):	370.8(PB-13S) 371.1(PB-13D)	Filter Pack:	Sand
Logged By:	Nardos Tilahun	Location (X,Y):	1162084.4, 2556626.1(PB-13S) 1162084.5, 2556638.8(PB-13D)	Sampling Method(s):	SS/SH/CO



NOTES: PB-13S and PB-13D are stickup wells, PB-13S is ~10ft away from PB-13D well. Depth to water at PB-13S is 7.4 feet below ground surface.
NA = Not Applicable

Boring log revised with new survey data dated 7/23/2020.

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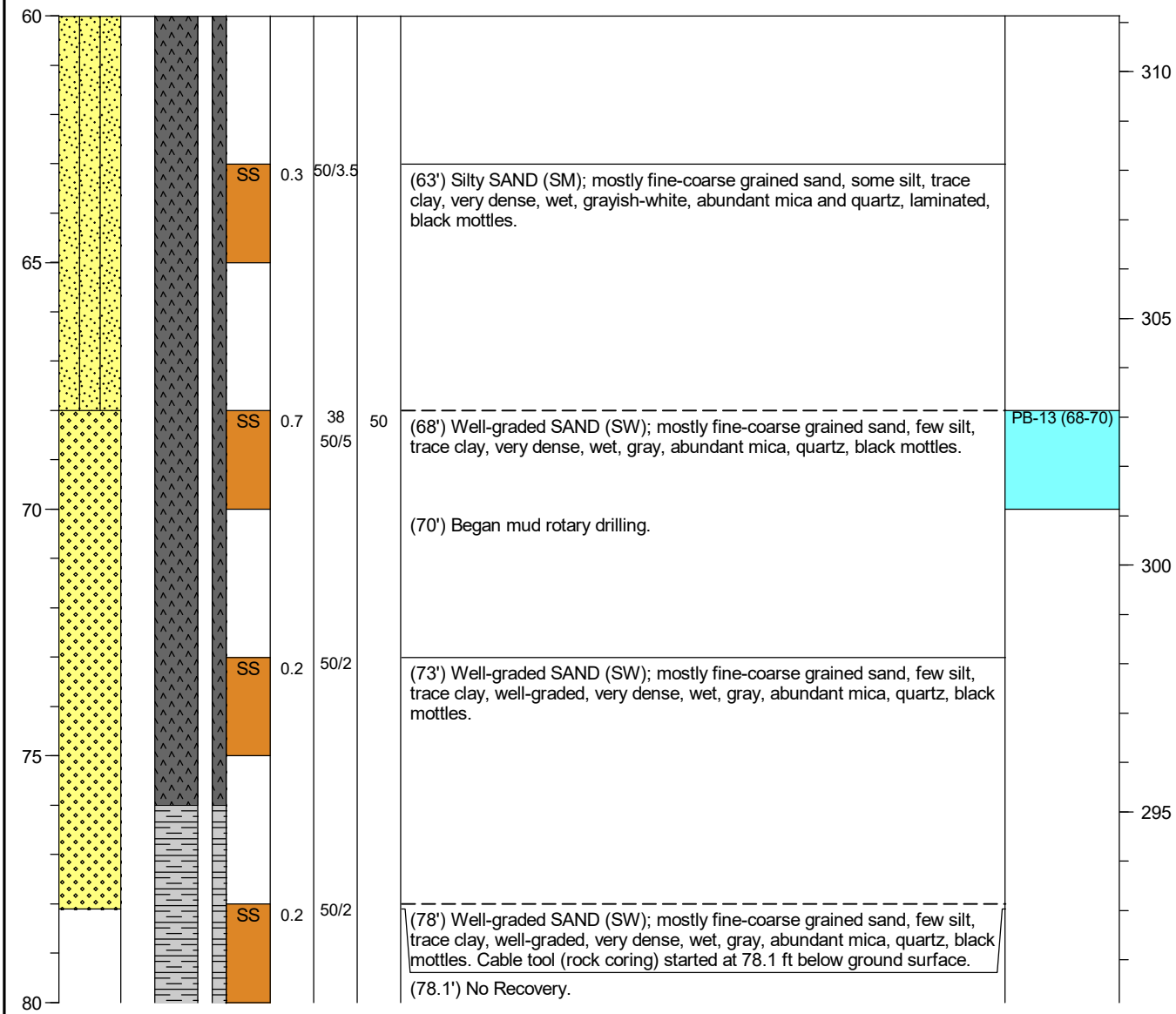
Client: Georgia Power Company
Project: Plant Branch CCR Landfill Site Investigation
Address: 1100 Milledgeville Rd, Milledgeville

WELL LOG
Well No. PB-13S/PB-13D
Page: 4 of 6

Drilling Start Date:	12/10/2018	Boring Depth (ft):	107.8	Well Depth (ft):	50/97
Drilling End Date:	12/18/2018	Boring Diameter (in):	6.50	Well Diam. (in)/Screen Slot (in):	2.0/0.010
Drilling Company:	Thompson Engineering	Static Water Level (ft):	7.19/7.74	Riser Material:	Sch 40 PVC
Drilling Method:	Hollow Stem Auger	DTW After Drilling (ft):	7.40/7.40	Screen Material:	Sch 40 PVC Slotted
Drilling Equipment:	D-50	Top of Casing Elev. (ft):	373.31(PB-13S) 373.77(PB-13D)	Sanitary Seal:	Bentonite Pellets
Driller:	Phil Pitts	Ground Elev. (ft):	370.8(PB-13S) 371.1(PB-13D)	Filter Pack:	Sand
Logged By:	Nardos Tilahun	Location (X,Y):	1162084.4, 2556626.1(PB-13S) 1162084.5, 2556638.8(PB-13D)	Sampling Method(s):	SS/SH/CO



NOTES: PB-13S and PB-13D are stickup wells, PB-13S is ~10ft away from PB-13D well. Depth to water at PB-13S is 7.4 feet below ground surface.
NA = Not Applicable

Boring log revised with new survey data dated 7/23/2020.

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Client: Georgia Power Company
Project: Plant Branch CCR Landfill Site Investigation
Address: 1100 Milledgeville Rd, Milledgeville

WELL LOG
Well No. PB-13S/PB-13D
Page: 5 of 6

Drilling Start Date:	12/10/2018	Boring Depth (ft):	107.8	Well Depth (ft):	50/97
Drilling End Date:	12/18/2018	Boring Diameter (in):	6.50	Well Diam. (in)/Screen Slot (in):	2.0/0.010
Drilling Company:	Thompson Engineering	Static Water Level (ft):	7.19/7.74	Riser Material:	Sch 40 PVC
Drilling Method:	Hollow Stem Auger	DTW After Drilling (ft):	7.40/7.40	Screen Material:	Sch 40 PVC Slotted
Drilling Equipment:	D-50	Top of Casing Elev. (ft):	373.31(PB-13S) 373.77(PB-13D)	Sanitary Seal:	Bentonite Pellets
Driller:	Phil Pitts	Ground Elev. (ft):	370.8(PB-13S) 371.1(PB-13D)	Filter Pack:	Sand
Logged By:	Nardos Tilahun	Location (X,Y):	1162084.4, 2556626.1(PB-13S) 1162084.5, 2556638.8(PB-13D)	Sampling Method(s):	SS/SH/CO

DEPTH (ft)	LITHOLOGY	WATER LEVEL	WELL COMPLETION	COLLECT: Sample Type	COLLECT: Recovery (ft)	COLLECT: Blow Counts	COLLECT: N Value RQD (%)	SOIL/ROCK VISUAL DESCRIPTION	MEASURE: Lab Sample	ELEV. (ft msl)
80										290
				CO	0			(82') No Recovery.		
85										285
				CO	3		8	(87') MET ROCK (GNEISS); coarse grained, moderately weathered, hard, intensely fractured, wet, dark biotite and white feldspar minerals, competent, iron oxidation on fracture surface, fractures not healed. Coring recovery from 78 to 87 feet below ground surface (ft bgs) was zero, top of competent rock could be at 87 ft bgs.		
90										280
				CO	2.2		0	(92') MET ROCK (GNEISS); coarse grained, moderately weathered, hard, intensely fractured, wet, dark biotite and white feldspar minerals, competent, iron oxidation on fracture surface, fractures not healed.		
95										275
				CO	5		100	(97') MET ROCK (GNEISS); coarse grained, fresh, hard, unfractured, dark biotite and white feldspar minerals, competent, strong, flow banding.		
100										

NOTES: PB-13S and PB-13D are stickup wells, PB-13S is ~10ft away from PB-13D well. Depth to water at PB-13S is 7.4 feet below ground surface.
NA = Not Applicable

Boring log revised with new survey data dated 7/23/2020.

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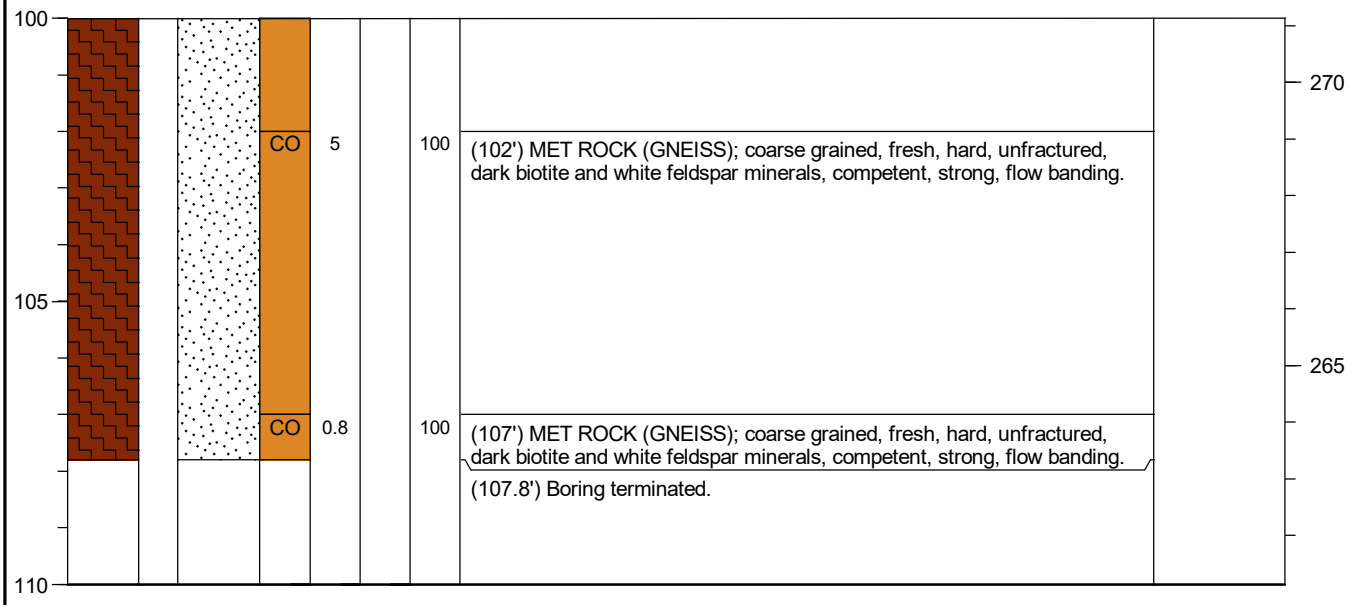
Client: Georgia Power Company
Project: Plant Branch CCR Landfill Site Investigation
Address: 1100 Milledgeville Rd, Milledgeville

WELL LOG
Well No. PB-13S/PB-13D
Page: 6 of 6

Drilling Start Date:	**12/10/2018**	Boring Depth (ft):	**107.8**	Well Depth (ft):	**50/97**
Drilling End Date:	**12/18/2018**	Boring Diameter (in):	**6.50**	Well Diam. (in)/Screen Slot (in):	**2.0/0.010**
Drilling Company:	**Thompson Engineering**	Static Water Level (ft):	**7.19/7.74**	Riser Material:	**Sch 40 PVC**
Drilling Method:	**Hollow Stem Auger**	DTW After Drilling (ft):	**7.40/7.40**	Screen Material:	**Sch 40 PVC Slotted**
Drilling Equipment:	**D-50**	Top of Casing Elev. (ft):	**373.31(PB-13S) 373.77(PB-13D)**	Sanitary Seal:	**Bentonite Pellets**
Driller:	**Phil Pitts**	Ground Elev. (ft):	**370.8(PB-13S) 371.1(PB-13D)**	Filter Pack:	**Sand**
Logged By:	**Nardos Tilahun**	Location (X,Y):	**1162084.4, 2556626.1(PB-13S) 1162084.5, 2556638.8(PB-13D)**	Sampling Method(s):	**SS/SH/CO**



NOTES: PB-13S and PB-13D are stickup wells, PB-13S is ~10ft away from PB-13D well. Depth to water at PB-13S is 7.4 feet below ground surface.
NA = Not Applicable

Easting and Northing in NAD 83.
Elevation in NAVD 88.

Location resurveyed June - July 2020

BORING PZ-18 I
Page 1 of 1

SOUTHERN COMPANY

BORING LOG

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Plant Branch Hydrogeologic Study
LOCATION Milledgeville, GA

DATE STARTED 2/24/2014 **COMPLETED** 2/26/2014 **GROUND ELEVATION** 359.6 ft **COORDINATES** N 1160766.2 E 2557745.5

CONTRACTOR SCS Field Services **METHOD** Hollow Stem Auger; Casing Advance; HQ Coring **EQUIPMENT** CME 550

DRILLED BY S. Denty **LOGGED BY** W. Shaughnessy **CHECKED BY** _____ **BORING DEPTH** 38.8 ft.

GROUND WATER DEPTH: DURING _____ **COMP.** _____ **DELAYED** 14.7 ft. after 260 hrs.

NOTES _____

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION	Natural Gamma (75 / 150 / 225)	WELL DATA (Top of casing Elev. = 362.55)
		Lean Clay (CL) residuum dry, medium stiff, CLAY, red, micas, silt	359.6		
5		residuum dry, stiff, Clayey SILT, reds, mica	352.6		
10		residuum dry, stiff, Clayey SILT, yellow-red, micas			
15		saprolite very damp, stiff, Clayey SILT, yellow-red, light gray, pale yellow, micas			
20		saprolite wet, stiff, Clayey SILT, brown, white, micas, sand			**Annular Seal**
25		saprolite wet, hard, Clayey SILT, yellow-brown, dark gray, gray, micas, sand	333.5		
		Felsic biotite GNEISS medium to coarse grain, medium hard to hard, moderately to not weathered, flow banded, numerous fractures, dark gray, pale yellow, white banding, feldspar, quartz, biotite, pyrite			**Filter Pack**
30		medium to coarse grain, medium hard to hard, slightly to not weathered, flow banded, few fractures, dark gray, white banding, feldspar, quartz, biotite, pyrite			
35		medium to coarse grain, medium hard to hard, slightly to not weathered, flow banded, few fractures, dark gray, white banding, feldspar, quartz, biotite, pyrite	320.8		**Screen Tip Elevation**

Bottom of borehole at 38.8 feet.

SIMPLE GEOLOGY WITH WELL - ESEE DATABASE.GDT - 10/29/20 14:45 - \\ALTRCFP01\LAPARKER$\DESKTOP\GPC\PLANT BRANCH PIEZOMETERS.GPJ

Location resurveyed June - July 2020

BORING PZ-18 S
Page 1 of 1

BORING LOG

SOUTHERN COMPANY

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Plant Branch Hydrogeologic Study
LOCATION Milledgeville, GA

DATE STARTED 2/26/2014 **COMPLETED** 2/26/2014 **GROUND ELEVATION** 359.7 ft **COORDINATES** N 1160757.3 E 2557747.4

CONTRACTOR SCS Field Services **METHOD** Hollow Stem Auger **EQUIPMENT** CME 550

DRILLED BY S. Denty **LOGGED BY** W. Shaughnessy **CHECKED BY** _____ **BORING DEPTH** 25.1 ft.

GROUND WATER DEPTH: DURING _____ **COMP.** _____ **DELAYED** 14.8 ft. after 260 hrs.

NOTES _____

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION	Natural Gamma (75 / 150 / 225)	WELL DATA (Top of casing Elev. = 362.82)
			359.7		
5		See PZ-18 I for material descriptions			
10					Annular Seal
					Filter Pack
15		▽			
20					
25					Screen Tip Elevation

Bottom of borehole at 25.1 feet.

SIMPLE GEOLOGY WITH WELL - ESEE DATABASE.GDT - 10/29/20 14:45 - \\ALTRCFP01\LAPARKER$\DESKTOP\GPC\PLANT BRANCH PIEZOMETERS.GPJ

Location resurveyed June - July 2020

SOUTHERN COMPANY

BORING LOG

BORING PZ-19 I
Page 1 of 1

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Plant Branch Hydrogeologic Study
LOCATION Milledgeville, GA

DATE STARTED 2/27/2014 **COMPLETED** 3/4/2014 **GROUND ELEVATION** 368.9 ft **COORDINATES** N 1159797.1 E 2558900

CONTRACTOR SCS Field Services **METHOD** Hollow Stem Auger; Casing Advance; HQ Coring **EQUIPMENT** CME 550

DRILLED BY S. Denty **LOGGED BY** W. Shaughnessy **CHECKED BY** _____ **BORING DEPTH** 43.7 ft.

GROUND WATER DEPTH: DURING _____ **COMP.** _____ **DELAYED** 7 ft. after 50 hrs.

NOTES _____

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION
		Lean Clay (CL) residuum damp, soft, sandy CLAY, dark red-brown	368.9
			364.9
5		subsoil dry, very dense, silty SAND, pale gray-brown, gravel, weathered rock/boulder	361.9
10		---no recovery/sampler plugged by gravel----	
			355.9
15		saprolite damp, stiff, silty CLAY, dark red-brown, sand, micas	
			350.9
20		saprolite very damp, dense, silty SAND, pale gray-brown with yellow mottles, clay, micas	
25		saprolite wet, very dense, silty SAND, dark yellow-brown, clay	
30			338.7
		saprolite wet, very dense, silty SAND, red-yellow and pale gray-brown	
		Felsic biotite GNEISS medium to coarse grain, hard, slightly to not weathered, flow banded, few fractures, black and white banding, feldspar, quartz, biotitie, feldsapr phenocrysts	
35		medium to coarse grain, hard, slightly to not weathered, flow banded, few fractures, distinct black and white banding, feldspar, quartz, biotitie, feldsapr phenocrysts	
40		medium to coarse grain, hard, slightly to not weathered, flow banded, few fractures, distinct black and white banding, feldspar, quartz, biotitie, feldsapr phenocrysts	
			325.2

Bottom of borehole at 43.7 feet.

Natural Gamma
75 150 225

WELL DATA
Top of casing Elev. = 371.74

Annular Seal
Filter Pack
Screen Tip Elevation

SIMPLE GEOLOGY WITH WELL - ESEE DATABASE.GDT - 10/29/20 14:45 - \\ALTRCFP01\LAPARKER$\DESKTOP\GPC\PLANT BRANCH PIEZOMETERS.GPJ

Location resurveyed June - July 2020

BORING PZ-19 S
Page 1 of 1

BORING LOG

SOUTHERN COMPANY

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Plant Branch Hydrogeologic Study
LOCATION Milledgeville, GA

DATE STARTED 3/4/2014 **COMPLETED** 3/4/2014 **GROUND ELEVATION** 368.4 ft **COORDINATES** N 1159805.4 E 2558894.5

CONTRACTOR SCS Field Services **METHOD** Hollow Stem Auger **EQUIPMENT** CME 550

DRILLED BY S. Denty **LOGGED BY** W. Shaughnessy **CHECKED BY** _____ **BORING DEPTH** 28 ft.

GROUND WATER DEPTH: DURING _____ **COMP.** _____ **DELAYED** 6 ft. after 42 hrs.

NOTES _____

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION	Natural Gamma (75 / 150 / 225)	WELL DATA (Top of casing Elev. = 371.42)
			368.4		
5		▽ See PZ-19 I for material descriptions			
10					
15					Annular Seal
					Filter Pack
20					
25					Screen Tip Elevation

Bottom of borehole at 28.0 feet.

SIMPLE GEOLOGY WITH WELL - ESEE DATABASE.GDT - 10/29/20 14:45 - \\ALTRCFP01\LAPARKER$\DESKTOP\GPC\PLANT BRANCH PIEZOMETERS.GPJ

Location resurveyed June - July 2020

BORING PZ-20 I

BORING LOG

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Plant Branch Hydrogeologic Study
LOCATION Milledgeville, GA

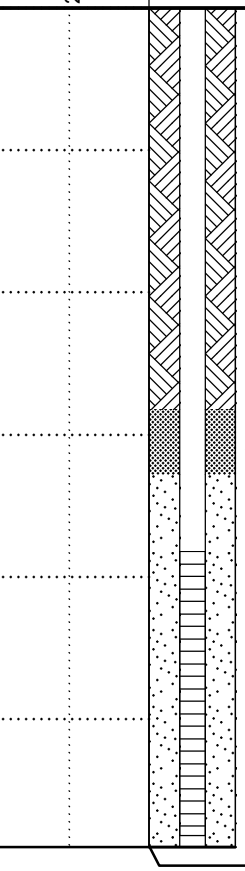
DATE STARTED 3/5/2014 **COMPLETED** 3/5/2014 **GROUND ELEVATION** 362.2 ft **COORDINATES** N 1159495.4 E 2560160.2
CONTRACTOR SCS Field Services **METHOD** Hollow Stem Auger; Casing Advance; HQ Coring **EQUIPMENT** CME 550
DRILLED BY S. Denty **LOGGED BY** W. Shaughnessy **CHECKED BY** _____ **BORING DEPTH** 29.5 ft.
GROUND WATER DEPTH: DURING _____ **COMP.** _____ **DELAYED** 8.9 ft. after 115 hrs.
NOTES _____

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION
			362.2
			358.2
5		residuum damp, very stiff, silty CLAY, red, pale yellow mottles, sand, micas	
10		saprolite dry, medium dense, silty SAND, pale brown, fine to medium grained, gravel	
15		saprolite dry, very dense, silty SAND, brown, fine grained, gravel, some clay	346.9
		Felsic biotite GNEISS fine to coarse grain, soft to hard, moderately to not weathered, flow banded, fractures, some weathered, gray with white banding, moderately weathered to 16 ft., then fresh, feldspar, quartz, biotite	
20		medium to coarse grain, hard, not weathered, flow banded, very few fractures, dark gray to black with white banding, fresh	
25		medium to coarse grain, hard to soft, not to highly weathered, flow banded, very few fractures, dark gray to black with white banding, fresh, highly weathered 24.5-25.3 ft.	
			332.7

Bottom of borehole at 29.5 feet.

Natural Gamma
75 150 225

WELL DATA
Top of casing Elev. = 365.34



SIMPLE GEOLOGY WITH WELL - ESEE DATABASE.GDT - 10/29/20 14:45 - \\ALTRCFP01\LAPARKER$\DESKTOP\GPC\PLANT BRANCH PIEZOMETERS.GPJ

Location resurveyed June - July 2020

BORING PZ-20 S
Page 1 of 1

SOUTHERN COMPANY

BORING LOG

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Plant Branch Hydrogeologic Study
LOCATION Milledgeville, GA

DATE STARTED 3/5/2014 **COMPLETED** 3/5/2014 **GROUND ELEVATION** 362.2 ft **COORDINATES** N 1159490.3 E 2560157

CONTRACTOR SCS Field Services **METHOD** Hollow Stem Auger **EQUIPMENT** CME 550

DRILLED BY S. Denty **LOGGED BY** W. Shaughnessy **CHECKED BY** _____ **BORING DEPTH** 15 ft.

GROUND WATER DEPTH: DURING _____ **COMP.** _____ **DELAYED** 9.4 ft. after 115 hrs.

NOTES _____

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION	Natural Gamma (75 / 150 / 225)	WELL DATA (Top of casing Elev. = 365.41)
			362.2		
5		See PZ-20 I for material descriptions			Annular Seal; Filter Pack
10		▼			
15		Bottom of borehole at 15.0 feet.			Screen Tip Elevation

SIMPLE GEOLOGY WITH WELL - ESEE DATABASE.GDT - 10/29/20 14:45 - \\ALTRCFP01\LAPARKER$\DESKTOP\GPC\PLANT BRANCH PIEZOMETERS.GPJ

Location resurveyed June - July 2020

BORING PZ-21 I

SOUTHERN COMPANY

BORING LOG

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Plant Branch Hydrogeologic Study
LOCATION Milledgeville, GA

DATE STARTED 3/6/2014 **COMPLETED** 3/10/2014 **GROUND ELEVATION** 355.8 ft **COORDINATES** N 1160591.6 E 2561328.2

CONTRACTOR SCS Field Services **METHOD** Hollow Stem Auger; Casing Advance; HQ Coring **EQUIPMENT** CME 550

DRILLED BY S. Denty **LOGGED BY** W. Shaughnessy **CHECKED BY** _____ **BORING DEPTH** 24.4 ft.

GROUND WATER DEPTH: DURING _____ **COMP.** _____ **DELAYED** 7.9 ft. after 50 hrs.

NOTES _____

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION	Natural Gamma (75 / 150 / 225)	WELL DATA (Top of casing Elev. = 358.92)
			355.8		
5		residuum damp, stiff, sandy CLAY, red-brown with red-yellow mottles, silt, micas	348.8		
10		saprolite wet, stiff, sandy SILT, brown with pale yellow-brown mottles, clay, micas	344.8		Annular Seal
		Felsic biotite GNEISS medium to coarse grain, medium hard to hard, slightly to not weathered, flow banded, few fractures, dark gray to black with white bands, slightly weathered to 12 ft., then fresh, feldspar, quartz, biotite			Filter Pack
15		medium to coarse grain, hard, not weathered, flow banded, very few fractures, fresh rock, feldspar, quartz, biotite, felspar phenocrysts			
20		medium to coarse grain, hard, not weathered, flow banded, very few fractures, fresh rock, feldspar, quartz, biotite, felspar phenocrysts			
			331.4		Screen Tip Elevation

Bottom of borehole at 24.4 feet.

SIMPLE GEOLOGY WITH WELL - ESEE DATABASE.GDT - 10/29/20 14:45 - \\ALTRCFP01\LAPARKER$\DESKTOP\GPC\PLANT BRANCH PIEZOMETERS.GPJ

Location resurveyed June - July 2020

BORING PZ-21 S
Page 1 of 1

SOUTHERN COMPANY

BORING LOG

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Plant Branch Hydrogeologic Study
LOCATION Milledgeville, GA

DATE STARTED 3/11/2014 **COMPLETED** 3/11/2014 **GROUND ELEVATION** 355.5 ft **COORDINATES** N 1160592.4 E 2561321.3

CONTRACTOR SCS Field Services **METHOD** Hollow Stem Auger **EQUIPMENT** CME 550

DRILLED BY S. Denty **LOGGED BY** W. Shaughnessy **CHECKED BY** _____ **BORING DEPTH** 9.5 ft.

GROUND WATER DEPTH: DURING _____ **COMP.** _____ **DELAYED** 4.3 ft. after 50 hrs.

NOTES _____

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION	Natural Gamma (75 / 150 / 225)	WELL DATA (Top of casing Elev. = 358.52)
			355.5		Annular Seal
5		See PZ-21 I for material descriptions			Filter Pack
		Bottom of borehole at 9.5 feet.			Screen Tip Elevation

SIMPLE GEOLOGY WITH WELL - ESEE DATABASE.GDT - 10/29/20 14:45 - \\ALTRCFP01\LAPARKER$\DESKTOP\GPC\PLANT BRANCH PIEZOMETERS.GPJ

Location resurveyed June - July 2020

RECORD OF BOREHOLE PZ-23I

SHEET 1 of 2

PROJECT: SCS Plant Branch
PROJECT NUMBER: 166-0939
DRILLED DEPTH: 67.00 ft
LOCATION: Milledgville, GA

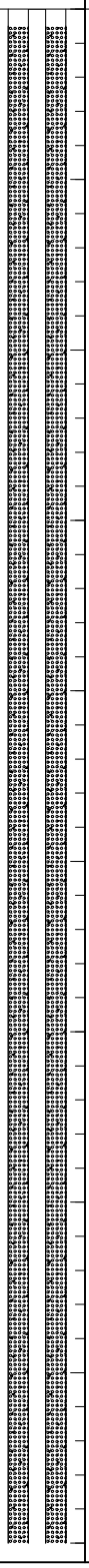
DRILL RIG: Mini-Sonic Track Mounted Rig
DATE STARTED: 7/27/16
DATE COMPLETED: 7/29/16

NORTHING: 1,162,975.40
EASTING: 2,557,877.70
GS ELEVATION: 425.1
TOC ELEVATION: 427.74 ft

DEPTH W.L.: 52.00
ELEVATION W.L.: 375.90
DATE W.L.: 07/29/2016
TIME W.L.: na

DEPTH (ft)	ELEVATION (ft)	DESCRIPTION	USCS	GRAPHIC LOG	ELEV. / DEPTH (ft)	SAMPLE NO.	TYPE	REC
0	425	0.00 - 6.00 sandy SILT, fine sand, reddish borwn , cohesive, w < PL	ML		419.1	1		6.00 / 6.00
5	420							
		6.00 - 16.00 silty SAND, fine to medium sand, light reddish brown, non-cohesive, moist, micaseous			6.00			
10	415					2		8.00 / 10.00
15	410				409.1			
		16.00 - 24.00 light grayish brown	SM		16.00	3		5.40 / 10.00
20	405				401.1			
		24.00 - 36.00 silty SAND, fine to coarse, trace gravel, light grayish brown, moist, relict rock structure apparent, SAPROLITE			24.00			
25	400					4		7.50 / 10.00
30	395							
35	390				389.1			
		36.00 - 37.00 No Recovery			36.00 388.1	5		0.00 / 1.00
		37.00 - 40.00 Biotite Gneiss, highly competent, litlle weathering	GNEISS		37.00	6		2.50 / 3.00
40	385				385.1			
		40.00 - 42.00 Difficult drilling			40.00 383.1			
		42.00 - 67.00 Biotite Gneiss			42.00	7		0.00 / 6.00
45		Log continued on next page						

MONITORING WELL/ PIEZOMETER DIAGRAM and NOTES



WELL CONSTRUCTION DETAILS

WELL CASING
Interval: 0'-56.5'
Material: Schedule 40 PVC
Diameter: 2"
Joint Type: Threaded

WELL SCREEN
Interval: 56.5'-66.5'
Material: Schedule 40 PVC
Diameter: 2"
Slot Size: 0.010"
End Cap: PVC

FILTER PACK
Interval: 54.5'-67'
Type: 54.5-55.0 - 30/45 Sand; 55.5-67 - #1 Sand

FILTER PACK SEAL
Interval: 48.5'-54.5'
Type: 52.5'-54.5' - 3/8" Bentonite Pellets, 50.5' -52.5' - 3/8" Bentonite Chips

ANNULUS SEAL
Interval: 0' - 48.5'
Type: Portland Cement (Type II)

WELL COMPLETION
Pad: 4'x4'x4"
Protective Casing: Anodized Aluminium

DRILLING METHODS
Soil Drill: 4-inch Sonic
Rock Drill: 4-inch Sonic

LOG SCALE: 1 in = 5.5 ft
DRILLING COMPANY: Cascade
DRILLER: John Vasquez

GA INSPECTOR: Randy Pettyjohn
CHECKED BY: Rachel P. Kirkman, P.G.
DATE: 9/15/16

GOLDER

BOREHOLE RECORD PLANT BRANCH LOGS_SURVEY UPDATED.GPJ PIEDMONT.GDT 8/20/20

Location resurveyed June - July 2020

RECORD OF BOREHOLE PZ-23I

SHEET 2 of 2

PROJECT: SCS Plant Branch
PROJECT NUMBER: 166-0939
DRILLED DEPTH: 67.00 ft
LOCATION: Milledgville, GA

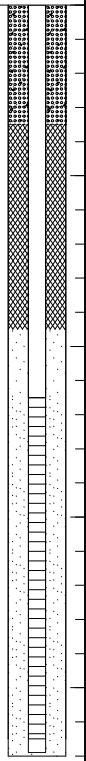
DRILL RIG: Mini-Sonic Track Mounted Rig
DATE STARTED: 7/27/16
DATE COMPLETED: 7/29/16

NORTHING: 1,162,975.40
EASTING: 2,557,877.70
GS ELEVATION: 425.1
TOC ELEVATION: 427.74 ft

DEPTH W.L.: 52.00
ELEVATION W.L.: 375.90
DATE W.L.: 07/29/2016
TIME W.L.: na

DEPTH (ft)	ELEVATION (ft)	DESCRIPTION	USCS	GRAPHIC LOG	ELEV. / DEPTH (ft)	SAMPLE NO.	TYPE	REC
45	380	42.00 - 67.00 Biotite Gneiss *(Continued)*				7		
50	375					8		6.00/10.00
55	370							
60	365					9		8.60/10.00
65	360				358.1			
		Boring completed at 67.00 ft						
70	355							
75	350							
80	345							
85	340							
90								

MONITORING WELL/ PIEZOMETER DIAGRAM and NOTES



WELL CONSTRUCTION DETAILS

WELL CASING
Interval: 0'-56.5'
Material: Schedule 40 PVC
Diameter: 2"
Joint Type: Threaded

WELL SCREEN
Interval: 56.5'-66.5'
Material: Schedule 40 PVC
Diameter: 2"
Slot Size: 0.010"
End Cap: PVC

FILTER PACK
Interval: 54.5'-67'
Type: 54.5-55.0 - 30/45 Sand; 55.5-67 - #1 Sand

FILTER PACK SEAL
Interval: 48.5'-54.5'
Type: 52.5'-54.5' - 3/8" Bentonite Pellets, 50.5' -52.5' - 3/8" Bentonite Chips

ANNULUS SEAL
Interval: 0' - 48.5'
Type: Portland Cement (Type II)

WELL COMPLETION
Pad: 4'x4'x4"
Protective Casing: Anodized Aluminium

DRILLING METHODS
Soil Drill: 4-inch Sonic
Rock Drill: 4-inch Sonic

LOG SCALE: 1 in = 5.5 ft
DRILLING COMPANY: Cascade
DRILLER: John Vasquez

GA INSPECTOR: Randy Pettyjohn
CHECKED BY: Rachel P. Kirkman, P.G.
DATE: 9/15/16

GOLDER

BOREHOLE RECORD PLANT BRANCH LOGS_SURVEY UPDATED.GPJ PIEDMONT.GDT 8/20/20

Location resurveyed June - July 2020

RECORD OF BOREHOLE PZ-24S/BRGWC-24S

SHEET 1 of 1

PROJECT: SCS Plant Branch
PROJECT NUMBER: 166-0939
DRILLED DEPTH: 42.00 ft
LOCATION: Milledgville, GA

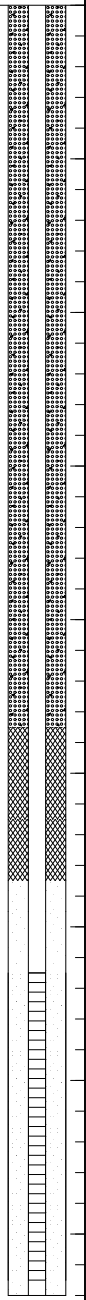
DRILL RIG: Prosonic Truck Mounted Rig
DATE STARTED: 7/27/16
DATE COMPLETED: 7/27/16

NORTHING: 1,162,400.90
EASTING: 2,562,862.20
GS ELEVATION: 351.4
TOC ELEVATION: 354.10 ft

DEPTH W.L.:11.25
ELEVATION W.L.: 342.75
DATE W.L.:7/28/16
TIME W.L.:na

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLES SAMPLE NO.	TYPE	REC
0	350	0.00 - 10.00 No Recovery; Hydrovac			341.4			
10	340	10.00 - 11.00 SILT, NP, light grey brown, mottled; moderately weathered, relic structure foliations, friable, micaceous, sapprolite; cohesive, dry, firm	ML		10.00 340.4 11.00 339.4	1	7.00	10.00
		11.00 - 12.00 SILT, NP, few fine sand; light grey brown, white brown, mottled, moderately weathered, relict structure foliations, micaceous, sapprolite; cohesive, dry, soft	SW		12.00 338.1			
			MLS		337.4			
15	335	12.00 - 13.30 SAND, medium grain, well graded, trace few silt, trace coarse sand, subangular; light grey, mottled, moderately weathered, massive, micaceous, sapprolite; cohesive, moist, very loose	SW		14.00 334.6			
		13.30 - 14.00 sandy SILT, low plasticity, fine-medium grain sand, well graded, trace subrounded coarse sand; grey brown and white, moderately weathered, massive, micaceous, SAPROLITE; cohesive, moist, loose	ML		333.9 17.50 332.6 18.80			
20	330	14.00 - 16.80 SAND, medium grain, well graded, trace few silt, trace coarse sand, subangular; light grey, mottled, moderately weathered, massive, micaceous, SAPROLITE; cohesive, moist, very loose			329.4	2	10.00	10.00
		16.80 - 17.50 SILT, NP, light grey brown, mottled; moderately weathered, relic structure foliations, friable, micaceous, SAPROLITE; cohesive, moist, firm	MLS		22.00 328.1			
		17.50 - 18.80 SILT, NP, trace fine grain sand; grey brown, moderately weathered, massive, micaceous, SAPROLITE; cohesive, moist, very loose	ML		23.30 326.9 24.50 325.3			
25	325	18.80 - 22.00 SILT, NP, trace medium sand; grey brown, moderately weathered, massive, micaceous, SAPROLITE; cohesive, moist, loose	SM		324.4			
		22.00 - 23.30 sandy SILT, NP, fine sand; light brown, moderately weathered, massive, micaceous, SAPROLITE; cohesive, moist, very soft	ML		27.00	3	10.00	10.00
30	320	23.30 - 24.50 SILT, NP; grey brown motteled dark grey white, moderately weathered, massive, micaceous, SAPROLITE; cohesive, moist, stiff						
		24.50 - 26.10 SILT, NP, trace fine-medium grain sand; mottled white and grey brown, lightly wetahered, relict structure foliation, micaceous, SAPROLITE; cohesive, moist, soft			316.9 34.50 315.9			
35	315	26.10 - 27.00 silty SAND, low plasticity, wel graded fine-medium sand; white, light brey brown mottling, lightly weathered, relict structure foliations, micaceous, SAPROLITE; cohesive, moist, very soft	SP		35.50			
		27.00 - 34.50 SILT, NP, trace fine sand; grey brown and white mottleing, lightly weathered, relict structure foliation, micaceous, SAPROLITE; cohesive, moist, soft			310.9	4	5.00	5.00
40	310	34.50 - 35.50 SILT, NP, trace fine sand; grey brown and white mottleing, lightly weathered, relict structure foliation, micaceous, SAPROLITE; cohesive, moist, firm			40.50 309.4			
		35.50 - 40.50 SAND, fine-coarse sand, gap graded, subangular, trace silt; light grey brown, white mottling, lightly weathered, relict structure foliation, micaceous, SAPROLITE; NC, moist, compact						
45	305	40.50 - 42.00 No Recovery						
50		Boring completed at 42.00 ft						

MONITORING WELL DIAGRAM and NOTES



WELL CONSTRUCTION DETAILS

WELL CASING
Interval: 0.0'-31.5'
Material: Schedule 40 PVC
Diameter: 2"
Joint Type: Threaded

WELL SCREEN
Interval: 31.5'-41.5'
Material: Schedule 40 PVC
Diameter: 2"
Slot Size: 0.010"
End Cap: Schedule 40 PVC

FILTER PACK
Interval: 28.5'-41.5'
Type: 28.5'-29.5', 30/45 fine sand; 29.5'-41.5', #1 sand
Quantity:

FILTER PACK SEAL
Interval: 23.5'-28.5'
Type: 23.5'-26.5', 3/8" Bentonite Chips; 26.5'-28.5', 3/8" Bentonite Pellets
Quantity:

ANNULUS SEAL
Interval: 0.0'-23.5'
Type: Portland Cement (Type I)
Quantity:

WELL COMPLETION
Pad: 4'x4'x4"
Protective Casing: Anodized Aluminum

DRILLING METHODS
Soil Drill: 4-inch Sonic
Rock Drill: N/A

LOG SCALE: 1 in = 6.5 ft
DRILLING COMPANY: Cascade Drilling
DRILLER: John Vasquez

GA INSPECTOR: Will Ethier
CHECKED BY: Rachel P. Kirkman, P.G.
DATE: 9/15/16

GOLDER

BOREHOLE RECORD PLANT BRANCH LOGS2_SURVEY UPDATED.GPJ PIEDMONT.GDT 11/10/20

Location resurveyed June - July 2020

RECORD OF BOREHOLE PZ-26I

SHEET 1 of 1

PROJECT: SCS Plant Branch
PROJECT NUMBER: 166-0939
DRILLED DEPTH: 30.50 ft
LOCATION: Milledgville, GA

DRILL RIG: TS-150 Track Mounted Rig
DATE STARTED: 7/26/16
DATE COMPLETED: 7/26/16

NORTHING: 1,160,669.00
EASTING: 2,561,626.40
GS ELEVATION: 368.0
TOC ELEVATION: 370.63 ft

DEPTH W.L.: 18.71
ELEVATION W.L.: 352.22
DATE W.L.: 7/21/2016
TIME W.L.: 13:00

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE DESCRIPTION	USCS	GRAPHIC LOG	ELEV. / DEPTH (ft)	SAMPLES SAMPLE NO.	TYPE	REC	MONITORING WELL/ PIEZOMETER DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
0		0.00 - 4.30 SILTY SAND, fine to coarse angular sand, non-plastic fines, trace fine to coarse sub-angular gravels; moderate reddish brown (10YR 4/6), some weathered micaceous grains, non-cohesive, compact, dry	SM		363.7	1		6.90/7.00		
5	365	4.30 - 6.10 SAND, fine to medium sub-angular sand, trace fine angular gravel (weathered bedrock); dusky brown (5YR 2/2), completely weathered (W5), SAPROLITE; non-cohesive, dry, compact	SP		4.30 361.9				Portland Cement (Type II)	
		6.10 - 8.50 SILTY SAND, fine sand, non-plastic to low plasticity fines; light brown (5YR 6/6) to moderate reddish brown (10YR 4/6), highly weathered (W4), some relic foliaitions in core stones, weathered micaceous grains and quartz, SAPROLITE; cohesive, w<PL, firm	SM		6.10 359.5	2		3.00/3.00		
10	360	8.50 - 9.40 Gravelly SAND, fine to medium angular sand, fine to coarse soft angular gravels (weathered core stones), trace non-plastic fines; very pale orange (10YR 8/6) with black (N1) and pale yellowish orange (10YR 6/6) core stones, highly weathered (W4), weathered micaceous grains, biotite, and quartz, SAPROLITE; non-cohesive, dry, dense	SP		8.50 358.6 9.40 355.2					
		9.40 - 12.80 SAND, medium to coarse sub-angular sand, some coarse soft angular gravels (weathered core stones); light brown (5YR 5/6), completely weathered (W5), SAPROLITE; non-cohesive, dry, dense to very dense	SM		12.80 353.7	3		6.00/6.00	3/8" Bentonite Chips	
15	355		TWR		14.30 352.5				3/8" Bentonite Pellets	
		12.80 - 14.30 SILTY SAND, fine to medium sub-angular sand, non-plastic to low plasticity fines, some fine to coarse soft angular gravels (weathered core stones); very pale orange (10YR 8/2) to dark yellowish orange (10YR 6/6), highly weathered (W4), weathered micaceous minerals, biotite and quartz, SAPROLITE; non-cohesive, moist, dense	GNIESS		15.50				30/45 Sand	
20	350	14.30 - 15.50 TRANSITIONALLY WEATHERED ROCK, fine to medium sub-angular sand, non-plastic to low plasticity fines, trace soft angular gravels (weathered core stones); light gray (N7), medium weathered (W3), quartz and biotite, non-cohesive, moist, very dense			348 20.00	4		3.30/4.00	#1 Sand	
		15.50 - 20.00 BEDROCK, Fresh (W1) to slightly weathered (W2), strongly foliaited (1 to 2 cm thick), light gray (N7) to grayish black (N2) mottled brownish gray (5YR 4/1) and medium bluish gray (5B 5/10) with some light brown (5YR 5/6) staining, fine to medium grained, non-porous to faintly porous, very strong (R4), GNIESS with hornblende, biotite and quartz, moist.								
25	345	20.00 - 30.50 fresh (W1), some weathered fracture surfaces (spaced ~2 feet apart), trace weathered micaceous grains				5		8.40/10.49	0.010" Screen Slot	
30	340				337.5				#1 Sand	
		Boring completed at 30.50 ft								
35	335									
40	330									
45	325									

WELL CASING
Interval: 0.0'-20.5'
Material: Schedule 40 PVC
Diameter: 2"
Joint Type: Threaded

WELL SCREEN
Interval: 20.5'-30.5'
Material: Schedule 40 PVC
Diameter: 2"
Slot Size: 0.006"
End Cap: Schedule 40 PVC

FILTER PACK
Interval: 17.0'-30.5'
Type: 17.0'-18.0' 30/45 Sand - 18.0'-30.5' #1 Sand

FILTER PACK SEAL
Interval: 12.0'-17.0'
Type: 12.0'-15.0' 3/8" Bentonite Chips - 15.0'-17.0' 3/8" Bentonite Pellets

ANNULUS SEAL
Interval: 2'-12'
Type: Portland Cement (Type II)

WELL COMPLETION
Pad: 4'x4'x4"
Protective Casing: Anodized Aluminum

DRILLING METHODS
Soil Drill: 4-inch Sonic
Rock Drill: 4-inch Sonic

LOG SCALE: 1 in = 5.5 ft
DRILLING COMPANY: Cascade Drilling
DRILLER: Trenton Herod

GA INSPECTOR: Jeffrey Ingram
CHECKED BY: Rachel P. Kirkman, P.G.
DATE: 9/15/16

GOLDER

BOREHOLE RECORD PLANT BRANCH LOGS_SURVEY UPDATED.GPJ PIEDMONT.GDT 8/20/20

Location resurveyed June - July 2020

RECORD OF BOREHOLE PZ-28I

SHEET 1 of 1

PROJECT: SCS Plant Branch
PROJECT NUMBER: 166-0939
DRILLED DEPTH: 25.00 ft
LOCATION: Milledgville, GA

DRILL RIG: Mini-Sonic Track Mounted Rig
DATE STARTED: 7/23/16
DATE COMPLETED: 7/24/16

NORTHING: 1,159,505.10
EASTING: 2,560,151.70
GS ELEVATION: 362.5
TOC ELEVATION: 364.81 ft

DEPTH W.L.: 10.5
ELEVATION W.L.: 354.38
DATE W.L.: 7/23/16
TIME W.L.: 7:30

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE: DESCRIPTION	USCS	GRAPHIC LOG	ELEV. / DEPTH (ft)	SAMPLES: SAMPLE NO.	TYPE	REC	MONITORING WELL / PIEZOMETER DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
0		0.00 - 5.00 SILT, NP, some fine-medium sand, trace subrounded fine gravel; reddish brown mottled light grey, whighly weathered, massive, micaceous, SAPROLITE; NC, dry, compact	ML		357.5	1		4.00 5.00	Portland Type 1	**WELL CASING** Interval: 0'-14.0' Material: Schedule 40 PVC Diameter: 2" Joint Type: Threaded
5	360	5.00 - 6.10 sandy SILT, NP, finesand, trace subrounded fine quartz gravel; light reddish grey brown, moderately weathered, massive, micaceous, SAPROLITE; NC, dry, loose	MLS		5.00 356.4					
		6.10 - 9.50 SAND, poorly graded, fine-medium grain, some silt, trace subangular coarse gravel; grey lightly weathered, massive, micaceous, SAPROLITE; NC, dry, very loose	SP		6.10 353	2		5.00 5.00	3/8" Bentonite Chips	**WELL SCREEN** Interval: 14.0-24.0' Material: Schedule 40 PVC Diameter: 2" Slot Size: 0.010" End Cap: Schedule 40 PVC
10	355	9.50 - 10.00 TRANSITIONALLY WEATHERED ROCK, slightly weathered, foliated; brown to light yellowish brown, medium crystalline, weak rock, biotite GNEISS, biotite, quartz, feldspar, intensely fractured	TWR SPG ML		351.7 351				3/8" Bentonite Pellets #1 30/45 FineSand	**FILTER PACK** Interval: 11.0'-24.0' Type: 11.0'-12.0', 30/45 fine sand; 12.0'-24.0', #1 sand
	350	10.00 - 10.80 gravelly SAND, well graded, medium-coarse grain, some subangular coarse grain gravel, trace silt, trace subrounded cobbles; olive brown, moderately weathered, massive, homogenous, micaceous, SAPROLITE; NC, moist, loose	SPG		11.50 347.5	3		5.00 5.00		**FILTER PACK SEAL** Interval: 6.0'-11.0' Type: 6.0'-9.0', 3/8" Bentonite Chips; 9.0'-11.0', Bentonite Pellets
15		10.80 - 11.50 SILT, NP, some medium-coarse sand, trace quartz fine angular gfvael; reddish brown, moderately weathered, massive, micaceous, SAPROLITE; cohesive, wet, firm	TWR		15.00 344.7	4		3.50 5.00	#1 Coarse Sand	**ANNULUS SEAL** Interval: 2.0'-6.0' Type: Portland Cement (Type I)
	345	11.50 - 15.00 gravelly SAND, well graded, medium-coarse grain, some subangular coarse grain gravel, trace silt, tracel subrounded cobbles; olive brown, moderately weathered, massive, homogenous, micaceous, SAPROLITE; NC, moist, loose			17.80 342.5					**WELL COMPLETION** Pad: 4'x4'x4" Protective Casing: Anodized Aluminum
20		15.00 - 17.80 TRANSITIONALLY WEATHERED ROCK, slightly weathered, foliated; grey brown to light yellowish brown, medium crystalline, weak rock, biotite GNEISS, biotite, quartz, feldspar, moderately fractured, fine-medium sand present, wet	GNEISS		20.00	5		5.00 5.00	0.010" Screen Slot	**DRILLING METHODS** Soil Drill: 4-inch Sonic Rock Drill: 4-inch Sonic
	340	17.80 - 20.00 sluff in hole								
25		20.00 - 25.00 BEDROCK, biotite GNEISS, fresh, foliated, dark grey and light grey, yellow brown disoloration, medium-very coarsely crystalline, little fracrues, biotite, quartz, feldspar, wet			337.5				#1 Sand	
	335	Boring completed at 25.00 ft								
30	330									
35	325									
40	320									
45	315									
50										

LOG SCALE: 1 in = 6.5 ft
DRILLING COMPANY: Cascade Drilling
DRILLER: Scotty Vermillon

GA INSPECTOR: Will Ethier
CHECKED BY: Rachel P. Kirkman, P.G.
DATE: 9/15/16

GOLDER

BOREHOLE RECORD PLANT BRANCH LOGS2_SURVEY UPDATED.GPJ PIEDMONT.GDT 8/20/20

Location resurveyed June - July 2020

RECORD OF BOREHOLE PZ-31S

SHEET 1 of 1

PROJECT: SCS Plant Branch
PROJECT NUMBER: 166-0939
DRILLED DEPTH: 39.50 ft
LOCATION: Milledgville, GA

DRILL RIG: Prosonic Truck Mounted Rig
DATE STARTED: 7/15/16
DATE COMPLETED: 7/26/16

NORTHING: 1,160,936.90
EASTING: 2,557,971.80
GS ELEVATION: 374.3
TOC ELEVATION: 376.77 ft

DEPTH W.L.: 19.6
ELEVATION W.L.: 357.34
DATE W.L.: 7/26/16
TIME W.L.: 10:07

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE DESCRIPTION	USCS	GRAPHIC LOG	ELEV. / DEPTH (ft)	SAMPLES SAMPLE NO.	TYPE	REC	MONITORING WELL/ PIEZOMETER DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
0		0.00 - 5.50 sandy SILT, NP, medium grain, trace fine gravel; reddish brown, massive, micaceous, SAPROLITE; NC, dry loose	MLS		368.8	1		7.00 7.00		
5	370	5.50 - 5.80 SAND, poorly graded, fine grain; light yellowish brown; NC, dry, loose	SP MLS		5.80 367.3					
		5.80 - 7.00 sandy SILT, NP, medium grain, trace fine gravel; reddish brown, massive, micaceous, SAPROLITE; NC, dry, loose			7.00 364.8					
10	365	7.00 - 9.50 fine sand, trace coarse subangular sand; brown, homogenous, micaceous, SAPROLITE; NC, dry, compact			9.50					
		9.50 - 17.00 SAND, well graded, medium grain, trace subrounded coarse sand, trace silt; grey brown with white mottle, massive, micaceous, SAPROLITE; NC, dry (moist at 16 ft), compact	SW		357.3	2		10.00 10.00		
15	360								Portland Type 1	
		17.00 - 19.50 clayey SAND, medium grain, poorly graded, highly plastic clay, trace subangular coarse sand; yellowish brown sand, grey clay, moderately weathered, heterogenous, micaceous; NC, moist, slightly loose	SC		17.00 354.8					
20	355	19.50 - 23.00 poorly graded, medium grain sand, low plastic clay; grey with brown mottling, homogenous, micaceous, SAPROLITE; cohesive, wet, firm	SC		19.50 351.3	3		10.00 10.00		
		23.00 - 25.00 highly plastic clay, trace subangular coarse sand; yellowish brown sand, grey clay, moderately weathered, heterogenous, micaceous, SAPROLITE; NC, moist, slightly loose	SC		23.00 349.3				3/8" Bentonite Chips	
25	350	25.00 - 27.00 well graded, medium-coarse grained sand, few clay, trace subangular fine gravel, trace cobbles; dark grey clay, light brown sand with white mottling, heterogenous, micaceous, SAPROLITE; NC, moist, loose	SC		25.00 347.3				3/8" Bentonite Pellets	
		27.00 - 29.50 CLAYEY SAND, poorly graded, medium grained sand, low plastic clay; grey with brown mottling, homogenous, micaceous, SAPROLITE; cohesive, wet, firm	SC		27.00 344.8				#1 30/45 FineSand	
30	345	29.50 - 31.50 gravelly SAND, medium-coarse sand, well graded, some angular cobbles; grey-white mottling, highly weathered bedrock, micaceous; NC, wet, very loose	SPG TWR		29.50 342.8 31.50 341.3	4		10.00 10.00	#1 Coarse Sand	
		31.50 - 33.00 TRANSITIONALLY WEATHERED ROCK, biotite GNEISS, highly weathered, yellow, white brown, medium-coarsely crystalling, soft rock, feldspar, quartz, biotite, pulverized rock, moist, highly fractured			33.00 337.3				0.010" Screen Slot	
35	340	33.00 - 37.00 No Recovery								
		37.00 - 37.80 sluff in hole			336.5					
		37.80 - 38.00 TRANSITIONALLY WEATHERED ROCK, biotite GNEISS, highly weathered, yellow, white brown, medium-coarsely crystalling, soft rock, feldspar, quartz, biotite, pulverized rock, wet, highly fractured			38.00 334.8	5		1.00 2.50	#1 Sand	
40	335	38.00 - 39.50 No Recovery								
		Boring completed at 39.50 ft								
45	330									
50	325									

WELL CASING
Interval: 0'-29.5'
Material: Schedule 40 PVC
Diameter: 2"
Joint Type: Threaded

WELL SCREEN
Interval: 29.5'-39.5'
Material: Schedule 40 PVC
Diameter: 2"
Slot Size: 0.010"
End Cap: Schedule 40 PVC

FILTER PACK
Interval: 26.5'-39.5'
Type: 26.5.'-27.5', 30/45 fine sand; 27.5'-39.5', #1 sand

FILTER PACK SEAL
Interval: 21.5'-26.5'
Type: 21.5'-24.5', 3/8" Bentonite Chips; 24.5'-26.5', Bentonite Pellets

ANNULUS SEAL
Interval: 2.0'-21.5'
Type: Portland Cement (Type I)

WELL COMPLETION
Pad: 4'x4'x4"
Protective Casing: Anodized Aluminum

DRILLING METHODS
Soil Drill: 4-inch Sonic
Rock Drill: 4-inch Sonic

LOG SCALE: 1 in = 6.5 ft
DRILLING COMPANY: Cascade Drilling
DRILLER: John Vasquez

GA INSPECTOR: Will Ethier
CHECKED BY: Rachel P. Kirkman, P.G.
DATE: 9/15/16

GOLDER

BOREHOLE RECORD PLANT BRANCH LOGS2_SURVEY UPDATED.GPJ PIEDMONT.GDT 8/20/20

Location resurveyed June - July 2020

RECORD OF BOREHOLE PZ-40S

SHEET 1 of 1

PROJECT: Plant Branch
PROJECT NUMBER: 1666254-01
DRILLED DEPTH: 40.20 ft
LOCATION: Aera A

DRILL RIG: CME 550
DATE STARTED: 2/14/17
DATE COMPLETED: 2/14/17

NORTHING: 1,162,414.90
EASTING: 2,562,807.70
GS ELEVATION: 353.2
TOC ELEVATION: 355.96 ft

DEPTH W.L.: 12.7'
ELEVATION W.L.: 340.5
DATE W.L.: 2/14/2017
TIME W.L.: 13:45

DEPTH (ft)	ELEVATION (ft)	DESCRIPTION	USCS	GRAPHIC LOG	ELEV. / DEPTH (ft)	SAMPLE NO.	TYPE	BLOWS per 6 in (140 lb hammer 30 inch drop)	N-VALUE	REC
0	353	0.00 - 10.00 Boring was Hydrovacuum to 10 feet.								
5	350									
10	345				343.2					
		10.00 - 23.50 ML, SILT, with some sand, fine to medium grained, non-plastic; gray/silver to red; cohesive, moist, w<PL.	ML		10.00	S1	DO	2-2-2	4	1.50 / 1.50
15	340									
						S2	DO	2-2-3	5	1.50 / 1.50
20	335									
25	330				329.7					
		23.50 - 33.50 SM, SILTY SAND, fine to coarse, non plastic; light brown to black to white; non-cohesive, dry to moist, W<PL.	SM		23.50	S3	DO	21-37-50/3	87/9	1.25 / 1.50
30	325					S4	DO	11-20-35	55	1.50 / 1.50
35	320				319.7					
		33.50 - 38.50 ML, SILT, with trace fine sand, non-plastic, white to black to bronze, weathered; cohesive, moist, firm to stiff, W<PL.	ML		33.50	S5	DO	7-13-17	30	1.00 / 1.50
40	315				314.7					
		38.50 - 40.20 SP, SAND, fine to coarse grained with trace silt, non-plastic; white to bronze; non-cohesive, dry, W<PL.	SP		38.50 313	S6	DO	12-18-24	42	1.00 / 1.50
		Boring completed at 40.20 ft								

MONITORING WELL/ PIEZOMETER DIAGRAM and NOTES

WELL CONSTRUCTION DETAILS

WELL CASING
Interval: 0-28.5'
Material: Schedule 40 PVC
Diameter: 2"
Joint Type: Flush/Screw

WELL SCREEN
Interval: 28.8-38.8'
Material: Schedule 40 PVC Pre-Pack
Diameter: 2
Slot Size: 0.010
End Cap: 39.8-40.2'

FILTER PACK
Interval: 27.8-40.2'
Type: FilterSil

FILTER PACK SEAL
Interval: 24.7-27.8'
Type: 3/8" PEL-PLUG Bentonite Pellets

ANNULUS SEAL
Interval: 0-24.7
Type: Pure Gold Grout (70:30)

WELL COMPLETION
Pad: 4' x 4'
Protective Casing: 4" x 4" x 5' Aluminum

DRILLING METHODS
Soil Drill: 4.25 inch HSA
Rock Drill: None

LOG SCALE: 1 in = 5 ft
DRILLING COMPANY: Southern Company Services
DRILLER: S. Milam

GA INSPECTOR: Michael Boatman
CHECKED BY: Rachel P. Kirkman, P.G.
DATE: 4/13/17

GOLDER

BOREHOLE RECORD 1666254-01 (1)_SURVEY UPDATED.GPJ PIEDMONT.GDT 8/21/20

Location resurveyed June - July 2020

RECORD OF BOREHOLE PZ-41S

SHEET 1 of 2

PROJECT: Plant Branch
PROJECT NUMBER: 1666254-01
DRILLED DEPTH: 45.00 ft
LOCATION: Aera A

DRILL RIG: CME 550
DATE STARTED: 2/13/17
DATE COMPLETED: 2/14/17

NORTHING: 1,162,431.80
EASTING: 2,562,759.40
GS ELEVATION: 354.3
TOC ELEVATION: 357.17 ft

DEPTH W.L.: 13.7
ELEVATION W.L.: 340.6
DATE W.L.: 2/14/2017
TIME W.L.: 0735

DEPTH (ft)	ELEVATION (ft)	DESCRIPTION	USCS	GRAPHIC LOG	ELEV. / DEPTH (ft)	SAMPLE NO.	TYPE	BLOWS per 6 in (140 lb hammer 30 inch drop)	N-VALUE	REC
0		0.00 - 10.00 Boring was Hydrovacuum to 10 feet.								
5	350									
10	345				344.3					
		10.00 - 28.50 CL, CLAY, with trace-some sand, fine to coarse, and trace silt, moderate plasticity; white to red orange brown; cohesive, dry to moist, soft to stiff, W< to ~PL.			10.00					
15	340		CL			S1	DO	2-1-5	6	1.00 / 1.50
20	335					S2	DO	5-8-11	19	1.50 / 1.50
25	330					S3	DO	3-5-8	13	1.50 / 1.50
					325.8					
		28.50 - 38.50 SM, SILTY SAND, non to low plasticity; silvery bronze to light brown to red brown, contians mica, biotite gneiss saprolite; cohesive, moist, soft to firm, W<PL.			28.50					
30	325		SM			S4	DO	2-3-3	6	1.50 / 1.50
35	320					S5	DO	3-4-7	11	1.16 / 1.50
					315.8					
		38.50 - 45.00 ML, SILT, with trace fine sand, non plastic; white to bronze, weathered, biotite gneiss saprolite; cohesive, moist, soft, W<PL.			38.50					
40	315		ML			S6	DO	3-7-11	18	1.50 / 1.50

Log continued on next page

MONITORING WELL/ PIEZOMETER DIAGRAM and NOTES

WELL CONSTRUCTION DETAILS

WELL CASING
Interval: 0-29.3'
Material: Schedule 40 PVC
Diameter: 2"
Joint Type: Flush/Screw

WELL SCREEN
Interval: 33.8-43.8'
Material: Schedule 40 PVC Pre-Pack
Diameter: 2
Slot Size: 0.010
End Cap: 43.8-44.2'

FILTER PACK
Interval: 32-44.2'
Type: FilterSil

FILTER PACK SEAL
Interval: 29.3-32'
Type: 3/8" PEL-PLUG Bentonite Pellets

ANNULUS SEAL
Interval: 0-29.3'
Type: Pure Gold Grout (70:30)

WELL COMPLETION
Pad: 4' x 4'
Protective Casing: 4" x 4" x 5' Aluminum

DRILLING METHODS
Soil Drill: 4.25 inch HSA
Rock Drill: None

LOG SCALE: 1 in = 5 ft
DRILLING COMPANY: Southern Company Services
DRILLER: S. Milam

GA INSPECTOR: Michael Boatman
CHECKED BY: Rachel P. Kirkman, P.G.
DATE: 4/13/17

GOLDER

BOREHOLE RECORD 1666254-01 (1)_SURVEY UPDATED.GPJ PIEDMONT.GDT 8/21/20

Location resurveyed June - July 2020

RECORD OF BOREHOLE PZ-41S

SHEET 2 of 2

PROJECT: Plant Branch
PROJECT NUMBER: 1666254-01
DRILLED DEPTH: 45.00 ft
LOCATION: Aera A

DRILL RIG: CME 550
DATE STARTED: 2/13/17
DATE COMPLETED: 2/14/17

NORTHING: 1,162,431.80
EASTING: 2,562,759.40
GS ELEVATION: 354.3
TOC ELEVATION: 357.17 ft

DEPTH W.L.: 13.7
ELEVATION W.L.: 340.6
DATE W.L.: 2/14/2017
TIME W.L.: 0735

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE: DESCRIPTION	USCS	GRAPHIC LOG	ELEV. / DEPTH (ft)	SAMPLES: SAMPLE NO.	TYPE	BLOWS per 6 in (140 lb hammer 30 inch drop)	N-VALUE	REC	MONITORING WELL/ PIEZOMETER DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
		38.50 - 45.00 ML, SILT, with trace fine sand, non plastic; white to bronze, weathered, biotite gneiss saprolite; cohesive, moist, soft, W<PL. *(Continued)*	ML									
45	310				309.3	S7	DO	8-12-13	25	1.33 / 1.50		
		Boring completed at 45.00 ft										
50	305											
55	300											
60	295											
65	290											
70	285											
75	280											
80	275											

WELL CASING
Interval: 0-29.3'
Material: Schedule 40 PVC
Diameter: 2"
Joint Type: Flush/Screw

WELL SCREEN
Interval: 33.8-43.8'
Material: Schedule 40 PVC Pre-Pack
Diameter: 2
Slot Size: 0.010
End Cap: 43.8-44.2'

FILTER PACK
Interval: 32-44.2'
Type: FilterSil

FILTER PACK SEAL
Interval: 29.3-32'
Type: 3/8" PEL-PLUG Bentonite Pellets

ANNULUS SEAL
Interval: 0-29.3'
Type: Pure Gold Grout (70:30)

WELL COMPLETION
Pad: 4' x 4'
Protective Casing: 4" x 4" x 5' Aluminum

DRILLING METHODS
Soil Drill: 4.25 inch HSA
Rock Drill: None

LOG SCALE: 1 in = 5 ft
DRILLING COMPANY: Southern Company Services
DRILLER: S. Milam

GA INSPECTOR: Michael Boatman
CHECKED BY: Rachel P. Kirkman, P.G.
DATE: 4/13/17

GOLDER

BOREHOLE RECORD 1666254-01 (1)_SURVEY UPDATED.GPJ PIEDMONT.GDT 8/21/20

Location resurveyed June - July 2020

RECORD OF BOREHOLE PZ-42S

SHEET 1 of 1

PROJECT: Plant Branch
PROJECT NUMBER: 1666254-01
DRILLED DEPTH: 32.20 ft
LOCATION: Aera A

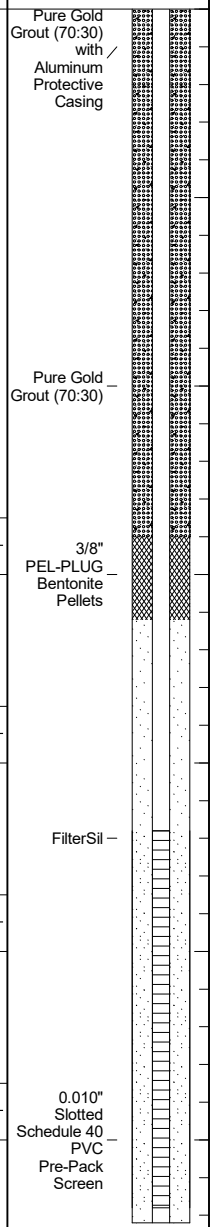
DRILL RIG: CME 550
DATE STARTED: 2/8/17
DATE COMPLETED: 2/9/17

NORTHING: 1,162,845.70
EASTING: 2,562,735.00
GS ELEVATION: 359.0
TOC ELEVATION: 361.66 ft

DEPTH W.L.: 20.84
ELEVATION W.L.: 338.16
DATE W.L.: 2/10/2017
TIME W.L.: 10:45

DEPTH (ft)	ELEVATION (ft)	DESCRIPTION	USCS	GRAPHIC LOG	ELEV. / DEPTH (ft)	SAMPLE NO.	TYPE	BLOWS per 6 in (140 lb hammer 30 inch drop)	N-VALUE	REC
0		0.00 - 10.00 Boring was Hydrovacuum for the first 10 feet.								
5	355									
10	350				349					
		10.00 - 28.50 SM, SILTY SAND, fine to medium grained, non-plastic; brown to black to white, non-cohesive, dry, compact, W<PL. **Becomes more saprolitic with depth.	SM		10.00	S1	DO	4-5-8	13	1.50 / 1.50
15	345									
20	340					S2	DO	4-11-20	31	1.33 / 1.50
25	335					S3	DO	14-40-50/5	90/11	1.18 / 1.50
30	330	28.50 - 32.20 SP, SAND, medium grained, with trace silt, non-plastic; black; non-cohesive, moist, very dense, W<PL. Auger Refusal.	SP		330.5 28.50	S4	DO	50/2	50/2	0.17 / 1.50
35	325	Boring completed at 32.20 ft			326.8					
40	320									

MONITORING WELL/ PIEZOMETER DIAGRAM and NOTES



WELL CONSTRUCTION DETAILS

WELL CASING
Interval: 0-14'
Material: Schedule 40 PVC
Diameter: 2"
Joint Type: Flush/Screw

WELL SCREEN
Interval: 21.8-31.8
Material: Schedule 40 PVC Pre-Pack
Diameter: 2
Slot Size: 0.010
End Cap: 31.8-32.2'

FILTER PACK
Interval: 16.2-32.2'
Type: FilterSil

FILTER PACK SEAL
Interval: 14-16.2'
Type: 3/8" PEL-PLUG Bentonite Pellets

ANNULUS SEAL
Interval: 0-16.2
Type: Pure Gold Grout (70:30)

WELL COMPLETION
Pad: 4' x 4'
Protective Casing: 4" x 4" x 5' Aluminum

DRILLING METHODS
Soil Drill: 4.25 inch HSA
Rock Drill: None

LOG SCALE: 1 in = 5 ft
DRILLING COMPANY: Southern Company Services
DRILLER: S. Milam

GA INSPECTOR: Michael Boatman
CHECKED BY: Rachel P. Kirkman, P.G.
DATE: 4/13/17

GOLDER

BOREHOLE RECORD 1666254-01 (1)_SURVEY UPDATED.GPJ PIEDMONT.GDT 8/21/20

Location resurveyed June - July 2020

RECORD OF BOREHOLE PZ-43

SHEET 1 of 2

PROJECT: Plant Branch
PROJECT NUMBER: 1666254-01
DRILLED DEPTH: 41.50 ft
LOCATION: Former Coal Pile

DRILL RIG: Pro Sonic 150
DATE STARTED: 2/6/18
DATE COMPLETED: 2/7/18

NORTHING: 1,162,159.80
EASTING: 2,562,031.30
GS ELEVATION: 381.0
TOC ELEVATION: 383.71 ft

DEPTH W.L.: 30.60
ELEVATION W.L.: 350.4
DATE W.L.: 2/14/18
TIME W.L.:

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE: DESCRIPTION	USCS	GRAPHIC LOG	ELEV. / DEPTH (ft)	SAMPLES: SAMPLE NO.	TYPE	REC	MONITORING WELL/ PIEZOMETER DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
0	380	0.00 - 8.50 Soil was removed by Hydorvac to 8.5 ft bgs							Grout with aluminum casing	**WELL CASING** Interval: 0-30 Material: Schedule 40 PVC Diameter: 2 inch Joint Type: Screw
5	375									**WELL SCREEN** Interval: 30.0-40.0 Material: .010 Slotted Screen Diameter: 1 inch Slot Size: .010" End Cap: 40-40.4
					372.5					**FILTER PACK** Interval: 28.0-41.5 Type: FilterSil
		8.50 - 17.00 Fill, Silty Sand, sands f-m, reddish brown, micaceous, non-cohesive, moist, loose.			8.50					**FILTER PACK SEAL** Interval: 23.0-28.0 Type: 3/8" PEL-PLUG Bentonite Pellets
10	370		SM							**ANNULUS SEAL** Interval: 0-23.0 Type: Portland Cement and Quikrete
										WELL COMPLETION Pad: NA Protective Casing: 4"x4"x5'
15	365								Portland cement/Quikrete Grout mix	**DRILLING METHODS** Soil Drill: Rotosonic Rock Drill: Core
					364					
		17.00 - 39.50 Residuum, Silty Sand, sands f-c, grayish brown, micaceous, non-cohesive, moist to wet (may be some perching of water table in areas with higher fine content), loose.			17.00					
20	360									
25	355								3/8" PEL-PLUG Bentonite Pellets	
			SM							
30	350								FilterSil	
35	345								One inch piezometer pipe	
					341.5					
40					39.50					

Log continued on next page

LOG SCALE: 1 in = 5 ft
DRILLING COMPANY: Cascade
DRILLER: Matt Pope

GA INSPECTOR: Ben Hodges
CHECKED BY: Rachel P. Kirkman, P.G.
DATE: 5/31/18

GOLDER

BOREHOLE RECORD 1666254-01 (1)_SURVEY UPDATED.GPJ PIEDMONT.GDT 8/21/20

Location resurveyed June - July 2020

RECORD OF BOREHOLE PZ-43

SHEET 2 of 2

PROJECT: Plant Branch
PROJECT NUMBER: 1666254-01
DRILLED DEPTH: 41.50 ft
LOCATION: Former Coal Pile

DRILL RIG: Pro Sonic 150
DATE STARTED: 2/6/18
DATE COMPLETED: 2/7/18

NORTHING: 1,162,159.80
EASTING: 2,562,031.30
GS ELEVATION: 381.0
TOC ELEVATION: 383.71 ft

DEPTH W.L.: 30.60
ELEVATION W.L.: 350.4
DATE W.L.: 2/14/18
TIME W.L.:

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE: DESCRIPTION	USCS	GRAPHIC LOG	ELEV. / DEPTH (ft)	SAMPLES: SAMPLE NO.	TYPE	REC	MONITORING WELL/ PIEZOMETER DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
	340	39.50 - 41.50 BIOTITE GNEISS, slightly weathered to fresh, very thin layer of saprolite, thinly banded, white and black, phaneritic. *(Continued)*			339.5					
		Boring completed at 41.50 ft								
45	335									
50	330									
55	325									
60	320									
65	315									
70	310									
75	305									
80	300									

WELL CASING
Interval: 0-30
Material: Schedule 40 PVC
Diameter: 2 inch
Joint Type: Screw

WELL SCREEN
Interval: 30.0-40.0
Material: .010 Slotted Screen
Diameter: 1 inch
Slot Size: .010"
End Cap: 40-40.4

FILTER PACK
Interval: 28.0-41.5
Type: FilterSil

FILTER PACK SEAL
Interval: 23.0-28.0
Type: 3/8" PEL-PLUG Bentonite Pellets

ANNULUS SEAL
Interval: 0-23.0
Type: Portland Cement and Quikrete

WELL COMPLETION
Pad: NA
Protective Casing: 4"x4"x5'

DRILLING METHODS
Soil Drill: Rotosonic
Rock Drill: Core

LOG SCALE: 1 in = 5 ft
DRILLING COMPANY: Cascade
DRILLER: Matt Pope

GA INSPECTOR: Ben Hodges
CHECKED BY: Rachel P. Kirkman, P.G.
DATE: 5/31/18

GOLDER

BOREHOLE RECORD 1666254-01 (1)_SURVEY UPDATED.GPJ PIEDMONT.GDT 8/21/20

Location resurveyed June - July 2020

RECORD OF BOREHOLE PZ-44

SHEET 1 of 2

PROJECT: Plant Branch
PROJECT NUMBER: 1666254-01
DRILLED DEPTH: 57.00 ft
LOCATION: Former Coal Pile

DRILL RIG: Pro Sonic 150
DATE STARTED: 2/1/18
DATE COMPLETED: 2/2/18

NORTHING: 1,161,724.60
EASTING: 2,561,587.50
GS ELEVATION: 380.5
TOC ELEVATION: 383.04 ft

DEPTH W.L.: 24.83
ELEVATION W.L.: 355.67
DATE W.L.: 2/14/18
TIME W.L.:

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE: DESCRIPTION	USCS	GRAPHIC LOG	ELEV. / DEPTH (ft)	SAMPLES: SAMPLE NO.	TYPE	REC	MONITORING WELL/ PIEZOMETER DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
0	380	0.00 - 8.00 Soil was removed by Hydrovac from 0-8 ft bgs							Grout Mix and Stainless Steel Casing	**WELL CASING** Interval: 0-47 Material: Schedule 40 PVC Diameter: 2" Joint Type: Screw
5	375									**WELL SCREEN** Interval: 46.6-56.6 Material: Schedule 40 PVC Diameter: 2" Slot Size: 0.010" Slotted End Cap: 56.6-57
					372.5					**FILTER PACK** Interval: 45-57 Type: FilterSil
		8.00 - 29.00 Fill, Sand with trace silt and gravel, reddish brown, non-cohesive, moist.			8.00					**FILTER PACK SEAL** Interval: 40-45 Type: 3/8" PEL-PLUG Bentonite Pellets
10	370								Grout Mix	**ANNULUS SEAL** Interval: 0-40 Type: Portland Cement/Quikrete
15	365		SP-SM							**WELL COMPLETION** Pad: 4'x4' Protective Casing: 4"x4"x5'
20	360									**DRILLING METHODS** Soil Drill: Rotosonic Rock Drill: Core
25	355									
					351.5					
30	350	29.00 - 48.00 Residuum, Sand with trace silt and gravel, grayish brown, micaceous, non-cohesive, moist.			29.00					
35	345		SP							
40	340									

Log continued on next page

LOG SCALE: 1 in = 5 ft
DRILLING COMPANY: Cascade
DRILLER: Matt Pope

GA INSPECTOR: David Hannam
CHECKED BY: Rachel P. Kirkman, P.G.
DATE: 5/31/18

GOLDER

BOREHOLE RECORD 1666254-01 (1)_SURVEY UPDATED.GPJ PIEDMONT.GDT 8/21/20

Location resurveyed June - July 2020

RECORD OF BOREHOLE PZ-44

SHEET 2 of 2

PROJECT: Plant Branch
PROJECT NUMBER: 1666254-01
DRILLED DEPTH: 57.00 ft
LOCATION: Former Coal Pile

DRILL RIG: Pro Sonic 150
DATE STARTED: 2/1/18
DATE COMPLETED: 2/2/18

NORTHING: 1,161,724.60
EASTING: 2,561,587.50
GS ELEVATION: 380.5
TOC ELEVATION: 383.04 ft

DEPTH W.L.: 24.83
ELEVATION W.L.: 355.67
DATE W.L.: 2/14/18
TIME W.L.:

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE: DESCRIPTION	USCS	GRAPHIC LOG	ELEV. / DEPTH (ft)	SAMPLES: SAMPLE NO.	TYPE	REC	MONITORING WELL / PIEZOMETER DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
45	335	29.00 - 48.00 Residuum, Sand with trace silt and gravel, grayish brown, micaceous, non-cohesive, moist. *(Continued)*	SP		332.5				3/8" PEL-PLUG – Bentonite Pellets	**WELL CASING** Interval: 0-47 Material: Schedule 40 PVC Diameter: 2" Joint Type: Screw
										WELL SCREEN Interval: 46.6-56.6 Material: Schedule 40 PVC Diameter: 2" Slot Size: 0.010" Slotted End Cap: 56.6-57
									FilterSil –	**FILTER PACK** Interval: 45-57 Type: FilterSil
50	330	48.00 - 51.00 Saprolite, recovered as rock flour, gravel, and cobbles.	GP-GM		48.00 329.5					**FILTER PACK SEAL** Interval: 40-45 Type: 3/8" PEL-PLUG Bentonite Pellets
										ANNULUS SEAL Interval: 0-40 Type: Portland Cement/Quikrete
55	325	51.00 - 57.00 BIOTITE GNEISS, slightly weathered to fresh, white/black, phaneritic, strong.			51.00 323.5				0.010 Schedule 40 Slotted Screen –	**WELL COMPLETION** Pad: 4'x4' Protective Casing: 4"x4"x5'
		Boring completed at 57.00 ft								**DRILLING METHODS** Soil Drill: Rotosonic Rock Drill: Core
60	320									
65	315									
70	310									
75	305									
80	300									

LOG SCALE: 1 in = 5 ft
DRILLING COMPANY: Cascade
DRILLER: Matt Pope

GA INSPECTOR: David Hannam
CHECKED BY: Rachel P. Kirkman, P.G.
DATE: 5/31/18

GOLDER

BOREHOLE RECORD 1666254-01 (1)_SURVEY UPDATED.GPJ PIEDMONT.GDT 8/21/20

Location resurveyed June - July 2020

RECORD OF BOREHOLE PZ-46

SHEET 1 of 2

PROJECT: Plant Branch
PROJECT NUMBER: 1666254-01
DRILLED DEPTH: 47.00 ft
LOCATION: Former Coal Pile

DRILL RIG: Pro Sonic 150
DATE STARTED: 2/5/18
DATE COMPLETED: 2/5/18

NORTHING: 1,162,756.20
EASTING: 2,560,559.00
GS ELEVATION: 382.1
TOC ELEVATION: 384.64 ft

DEPTH W.L.: 8.85
ELEVATION W.L.: 373.25
DATE W.L.: 2/14/18
TIME W.L.:

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE: DESCRIPTION	USCS	GRAPHIC LOG	ELEV. / DEPTH (ft)	SAMPLES: SAMPLE NO.	TYPE	REC	MONITORING WELL/ PIEZOMETER DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
0	382	0.00 - 8.00 Soil was removed by Hydrovac from 0-8 ft bgs.							Grout mix and stainless steel casing	**WELL CASING** Interval: 0-35.6 Material: Schedule 40 PVC Diameter: 2" Joint Type: Screw
5	375				374.1					**WELL SCREEN** Interval: 35.6-45.6 Material: 0.010" Slotted Schedule 40 PVC Diameter: 2" Slot Size: 0.010" End Cap: 45.6-47
		8.00 - 37.00 Residuum, silty Sand, sands f-c, dark brown, micaceous, non-cohesive, moist, loose.			8.00					**FILTER PACK** Interval: 34-46 Type: FilterSil
10	370									**FILTER PACK SEAL** Interval: 29-34 Type: 3/8" PEL-PLUG Bentonite Pellets
15	365									**ANNULUS SEAL** Interval: 0-29 Type: Portland Cement/Quikrete grout mix
20	360		SM						Portland cement/quikrete grout mix	**WELL COMPLETION** Pad: 4'x4' Protective Casing: 4"x4"x5'
25	355									**DRILLING METHODS** Soil Drill: Rotosonic Rock Drill: Core
30	350								3/8" PEL-PLUG Bentonite Pellets	
35	345				345.1				FilterSil	
		37.00 - 39.00 Saprolite, BIOTITE GNEISS, core presented as rock flour, and gravel/cobbles, black and white with light green coating around rock, highly mafic, thinly laminated, fine grained, soft.	GP-GM		37.00 343.1				0.010" Slotted Schedule 40 PVC	
40		39.00 - 47.00 BIOTITE GNEISS, slightly weathered to fresh, thickly banded, white and black, phaneritic, very strong.			39.00					

Log continued on next page

LOG SCALE: 1 in = 5 ft
DRILLING COMPANY: Cascade
DRILLER: Matt Pope

GA INSPECTOR: Ben Hodges
CHECKED BY: Rachel P. Kirkman, P.G.
DATE: 5/31/18

GOLDER

BOREHOLE RECORD 1666254-01 (1)_SURVEY UPDATED.GPJ PIEDMONT.GDT 8/21/20

Location resurveyed June - July 2020

RECORD OF BOREHOLE PZ-46

PROJECT: Plant Branch
PROJECT NUMBER: 1666254-01
DRILLED DEPTH: 47.00 ft
LOCATION: Former Coal Pile

DRILL RIG: Pro Sonic 150
DATE STARTED: 2/5/18
DATE COMPLETED: 2/5/18

NORTHING: 1,162,756.20
EASTING: 2,560,559.00
GS ELEVATION: 382.1
TOC ELEVATION: 384.64 ft

DEPTH W.L.: 8.85
ELEVATION W.L.: 373.25
DATE W.L.: 2/14/18
TIME W.L.:

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE: DESCRIPTION	USCS	GRAPHIC LOG	ELEV. / DEPTH (ft)	SAMPLES: SAMPLE NO.	TYPE	REC	MONITORING WELL/ PIEZOMETER DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
45	340	39.00 - 47.00 BIOTITE GNEISS, slightly weathered to fresh, thickly banded, white and black, phaneritic, very strong. *(Continued)*								
					335.1					
50	335	Boring completed at 47.00 ft								
55	330									
60	325									
65	320									
70	315									
75	310									
80	305									

WELL CASING
Interval: 0-35.6
Material: Schedule 40 PVC
Diameter: 2"
Joint Type: Screw

WELL SCREEN
Interval: 35.6-45.6
Material: 0.010" Slotted Schedule 40 PVC
Diameter: 2"
Slot Size: 0.010"
End Cap: 45.6-47

FILTER PACK
Interval: 34-46
Type: FilterSil

FILTER PACK SEAL
Interval: 29-34
Type: 3/8" PEL-PLUG Bentonite Pellets

ANNULUS SEAL
Interval: 0-29
Type: Portland Cement/Quikrete grout mix

WELL COMPLETION
Pad: 4'x4'
Protective Casing: 4"x4"x5'

DRILLING METHODS
Soil Drill: Rotosonic
Rock Drill: Core

LOG SCALE: 1 in = 5 ft
DRILLING COMPANY: Cascade
DRILLER: Matt Pope

GA INSPECTOR: Ben Hodges
CHECKED BY: Rachel P. Kirkman, P.G.
DATE: 5/31/18

GOLDER

Location resurveyed June - July 2020

RECORD OF BOREHOLE PZ-48

SHEET 1 of 2

PROJECT: Plant Branch
PROJECT NUMBER: 1666254-01
DRILLED DEPTH: 67.00 ft
LOCATION: South of Skills Center

DRILL RIG: Pro Sonic 150
DATE STARTED: 1/24/18
DATE COMPLETED: 1/25/18

NORTHING: 1,163,046.70
EASTING: 2,558,444.60
GS ELEVATION: 418.3
TOC ELEVATION: 420.90 ft

DEPTH W.L.: 30.55
ELEVATION W.L.: 387.75
DATE W.L.: 2/14/18
TIME W.L.:

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE: DESCRIPTION	USCS	GRAPHIC LOG	ELEV. / DEPTH (ft)	SAMPLES: SAMPLE NO.	TYPE	REC	MONITORING WELL/ PIEZOMETER DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
0		0.00 - 8.00 Soil removed by Hydrovac from 0-8 ft bgs.							Grout mix with stainless steel casing	**WELL CASING** Interval: 0-56.6 Material: Schedule 40 PVC Diameter: 2" Joint Type: Screw
	415									**WELL SCREEN** Interval: 56.6-66.6 Material: 0.010" Slotted Schedule 40 PVC Diameter: 2" Slot Size: 0.010" End Cap: 66.6-67
5										**FILTER PACK** Interval: 55-67 Type: FilterSil
					410.3					
	410	8.00 - 17.00 Fill, silty Sand, reddish brown, micaceous, moist, non-cohesive.			8.00					**FILTER PACK SEAL** Interval: 50-55 Type: 3/8" PEL-PLUG Bentonite Pellets
10			SM							**ANNULUS SEAL** Interval: 0-50 Type: Portland Cement/Quikrete grout mix
	405									**WELL COMPLETION** Pad: 4'x4' Protective Casing: 4"x4"x5'
15										**DRILLING METHODS** Soil Drill: Rotosonic Rock Drill: Core
					401.3					
	400	17.00 - 64.50 Residuum, Sand with some silt, grayish brown with white mottling, occasional relic structure, micaceous, dry, non-cohesive.			17.00					
20										
	395									
25									Portland Cement/Quikrete grout mix	
	390		SM							
30										
	385									
35										
	380									
40		Log continued on next page								

LOG SCALE: 1 in = 5 ft
DRILLING COMPANY: Cascade
DRILLER: Matt Pope

GA INSPECTOR: David Hannam
CHECKED BY: Rachel P. Kirkman, P.G.
DATE: 5/31/18

GOLDER

BOREHOLE RECORD 1666254-01 (1)_SURVEY UPDATED.GPJ PIEDMONT.GDT 8/21/20

Location resurveyed June - July 2020

RECORD OF BOREHOLE PZ-48

SHEET 2 of 2

PROJECT: Plant Branch
PROJECT NUMBER: 1666254-01
DRILLED DEPTH: 67.00 ft
LOCATION: South of Skills Center

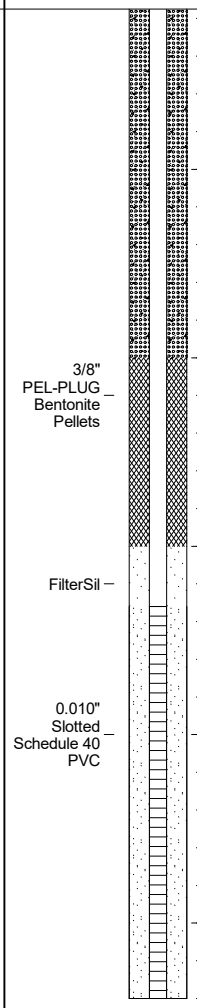
DRILL RIG: Pro Sonic 150
DATE STARTED: 1/24/18
DATE COMPLETED: 1/25/18

NORTHING: 1,163,046.70
EASTING: 2,558,444.60
GS ELEVATION: 418.3
TOC ELEVATION: 420.90 ft

DEPTH W.L.: 30.55
ELEVATION W.L.: 387.75
DATE W.L.: 2/14/18
TIME W.L.:

DEPTH (ft)	ELEVATION (ft)	DESCRIPTION	USCS	GRAPHIC LOG	ELEV. / DEPTH (ft)	SAMPLE NO.	TYPE	REC
		17.00 - 64.50 Residuum, Sand with some silt, grayish brown with white mottling, occasional relic structure, micaceous, dry, non-cohesive. *(Continued)*						
45	375							
50	370							
	365		SM					
55								
60	360							
	355				353.8			
65		64.50 - 65.50 Partially weathered rock, sampled as sand and gravel with trace silt, grayish brown, subangular, non-cohesive.	GP-GM		64.50 352.8			
		65.50 - 67.00 GRANITIC BUTTON SCHIST, fresh, with biotite/muscovite/feldspar/quartz, weak foliation near horizontal, strong.			65.50 351.3			
	350	Boring completed at 67.00 ft						
70								
	345							
75								
	340							
80								

MONITORING WELL/ PIEZOMETER DIAGRAM and NOTES



WELL CONSTRUCTION DETAILS

WELL CASING
Interval: 0-56.6
Material: Schedule 40 PVC
Diameter: 2"
Joint Type: Screw

WELL SCREEN
Interval: 56.6-66.6
Material: 0.010" Slotted Schedule 40 PVC
Diameter: 2"
Slot Size: 0.010"
End Cap: 66.6-67

FILTER PACK
Interval: 55-67
Type: FilterSil

FILTER PACK SEAL
Interval: 50-55
Type: 3/8" PEL-PLUG Bentonite Pellets

ANNULUS SEAL
Interval: 0-50
Type: Portland Cement/Quikrete grout mix

WELL COMPLETION
Pad: 4'x4'
Protective Casing: 4"x4"x5'

DRILLING METHODS
Soil Drill: Rotosonic
Rock Drill: Core

LOG SCALE: 1 in = 5 ft
DRILLING COMPANY: Cascade
DRILLER: Matt Pope

GA INSPECTOR: David Hannam
CHECKED BY: Rachel P. Kirkman, P.G.
DATE: 5/31/18

GOLDER

BOREHOLE RECORD 1666254-01 (1)_SURVEY UPDATED.GPJ PIEDMONT.GDT 8/21/20

RECORD OF BOREHOLE PZ-50D

PROJECT: Plant Branch
PROJECT NUMBER: 1666254-01
DRILLED DEPTH: 136.00 ft
LOCATION: Adjacent to BRGWC-50

DRILL RIG: TSI 150T Truck Mounted
DATE STARTED: 10/5/20
DATE COMPLETED: 10/8/20

NORTHING: 1,161,588.9
EASTING: 2,562,381.2
GS ELEVATION: 378.3
TOC ELEVATION: 380.86 ft

DEPTH W.L.:21.72
ELEVATION W.L.: 356.58
DATE W.L.:10/8/2020
TIME W.L.:12:45

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE DESCRIPTION	USCS	GRAPHIC LOG	ELEV. / DEPTH (ft)	SAMPLES NO.	TYPE	REC
0		0.00 - 6.00 HYDROVAC HOLE BACKFILL, SM; SILTY SAND, red, micaceous, highly weathered, non-cohesive, loose, wet	SM		372.3	1	ROTO SONIC	2.00 / 6.00
5	375							
		6.00 - 10.50 SC; CLAYEY SAND WITH SILT, red, micaceous, highly weathered, RESIDUUM, non-cohesive, loose to compact, wet	SC		6.00 367.8	2	ROTO SONIC	8.00 / 10.00
10	370							
		10.50 - 14.00 SM; SILTY SAND WITH SOME CLAY, gray with red/orange clay, micaceous, highly weathered RESIDUUM, non-cohesive, loose, moist to wet	SM		10.50 364.3			
15	365	14.00 - 23.00 SC-CL; SANDY CLAY/CLAYEY SAND, red/orange, micaceous, moderately to highly weathered RESIDUUM, cohesive, very soft to firm, w>PL	CL		14.00 355.3	3	ROTO SONIC	5.00 / 10.00
20	360							
		23.00 - 26.00 SM; SILTY SAND WITH SOME CLAY, grey with red/orange, micaceous, moderately to highly weathered RESIDUUM, non-cohesive, very loose to loose, dry	SM		23.00 352.3			
25	355							
		26.00 - 56.00 SC-CL; SANDY CLAY/CLAYEY SAND, grey with red/orange, micaceous, moderately weathered RESIDUUM, cohesive, very soft to stiff, w~PL	CL		26.00	4	ROTO SONIC	9.40 / 10.00
30	350							
35	345					5	ROTO SONIC	10.00 / 10.00
40	340	Log continued on next page						

MONITORING WELL DIAGRAM and NOTES

PZ-50D

WELL CONSTRUCTION DETAILS

WELL CASING
Interval: 0'-106'
Material: Schedule 40 PVC
Diameter: 2"
Joint Type: Threaded

WELL SCREEN
Interval: 96'-106'
Material: 0.010" Slotted Schedule 40 PVC U-pack Screen
Diameter: 2"
Slot Size: 0.010"
End Cap: 3"

FILTER PACK
Interval: 93.9'-108.1'
Type: #1 Sand
Quantity: 4 - 50lb bags

FILTER PACK SEAL
Interval: 89.7'-93.9'
Type: 3/8" Pel-Plud
Quantity: 1 5 gallon bucket

ANNULUS SEAL
Interval: 0'-89.7'
Type: Aquaguard bentonite grout
Quantity: ~6 bags Aquaguard + ~100 gallons H2O

WELL COMPLETION
Pad: 4'x4'
Protective Casing: Aluminum

DRILLING METHODS
Soil Drill: Sonic
Rock Drill: Sonic

LOG SCALE: 1 in = 5 ft
DRILLING COMPANY: Cascade Environmental
DRILLER: Logan Hall

GA INSPECTOR: Chris Tidwell
CHECKED BY: Brian Steele, PG
DATE: 11/12/20

GOLDER

RECORD OF BOREHOLE PZ-50D

PROJECT: Plant Branch
PROJECT NUMBER: 1666254-01
DRILLED DEPTH: 136.00 ft
LOCATION: Adjacent to BRGWC-50

DRILL RIG: TSI 150T Truck Mounted
DATE STARTED: 10/5/20
DATE COMPLETED: 10/8/20

NORTHING: 1,161,588.9
EASTING: 2,562,381.2
GS ELEVATION: 378.3
TOC ELEVATION: 380.86 ft

DEPTH W.L.:21.72
ELEVATION W.L.: 356.58
DATE W.L.:10/8/2020
TIME W.L.:12:45

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE DESCRIPTION	USCS	GRAPHIC LOG	ELEV. / DEPTH (ft)	SAMPLES SAMPLE NO.	TYPE	REC	MONITORING WELL DIAGRAM and NOTES PZ-50D	WELL CONSTRUCTION DETAILS
40		26.00 - 56.00 SC-CL; SANDY CLAY/CLAYEY SAND, grey with red/orange, micaceous, moderately weathered RESIDUUM, cohesive, very soft to stiff, w~PL *(Continued)*	CL			5	ROTO SONIC	10.00 / 10.00		**WELL CASING** Interval: 0'-106' Material: Schedule 40 PVC Diameter: 2" Joint Type: Threaded
45	335									**WELL SCREEN** Interval: 96'-106' Material: 0.010" Slotted Schedule 40 PVC U-pack Screen Diameter: 2" Slot Size: 0.010" End Cap: 3"
50	330					6	ROTO SONIC	10.00 / 10.00		**FILTER PACK** Interval: 93.9'-108.1' Type: #1 Sand Quantity: 4 - 50lb bags
55	325				322.3					**FILTER PACK SEAL** Interval: 89.7'-93.9' Type: 3/8" Pel-Plud Quantity: 1 5 gallon bucket
60	320	56.00 - 63.00 SC-CL; CLAYEY SAND/SANDY CLAY, with silt and trace gravels of gneiss, brown/grey, micaceous, moderately to highly weathered SAPROLITE, non-cohesive, loose to compact, moist	SC		56.00	7	ROTO SONIC	10.00 / 10.00		**ANNULUS SEAL** Interval: 0'-89.7' Type: Aquaguard bentonite grout Quantity: ~6 bags Aquaguard + ~100 gallons H2O
65	315	63.00 - 66.00 BIOTITE GNEISS, BEDROCK, trace silt and clay, TWR transitioning to highly weathered Gneiss bedrock, grey with black/white banding, qtz, feldspar, mica and amphibole, non-cohesive, loose to compact; moist	TWR		315.3 63.00					**WELL COMPLETION** Pad: 4'x4' Protective Casing: Aluminum
70	310	66.00 - 106.00 BIOTITE GNEISS, BEDROCK, black/white banded, finely and coarsely crystalline, containing quartz, mica, feldspar, amphibole, trace horneblende, moderately to highly weathered ; strength index: R3-R4	Gneiss		312.3 66.00	8	ROTO SONIC	10.00 / 10.00		**DRILLING METHODS** Soil Drill: Sonic Rock Drill: Sonic
75	305									
80	300					9	ROTO SONIC	9.00 / 10.00		

Log continued on next page

LOG SCALE: 1 in = 5 ft
DRILLING COMPANY: Cascade Environmental
DRILLER: Logan Hall

GA INSPECTOR: Chris Tidwell
CHECKED BY: Brian Steele, PG
DATE: 11/12/20

GOLDER

RECORD OF BOREHOLE PZ-50D

PROJECT: Plant Branch
PROJECT NUMBER: 1666254-01
DRILLED DEPTH: 136.00 ft
LOCATION: Adjacent to BRGWC-50

DRILL RIG: TSI 150T Truck Mounted
DATE STARTED: 10/5/20
DATE COMPLETED: 10/8/20

NORTHING: 1,161,588.9
EASTING: 2,562,381.2
GS ELEVATION: 378.3
TOC ELEVATION: 380.86 ft

DEPTH W.L.:21.72
ELEVATION W.L.: 356.58
DATE W.L.:10/8/2020
TIME W.L.:12:45

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE DESCRIPTION	USCS	GRAPHIC LOG	ELEV. / DEPTH (ft)	SAMPLES SAMPLE NO.	TYPE	REC	MONITORING WELL DIAGRAM and NOTES PZ-50D	WELL CONSTRUCTION DETAILS
80		66.00 - 106.00 BIOTITE GNEISS, BEDROCK, black/white banded, finely and coarsely crystalline, containing quartz, mica, feldspar, amphibole, trace horneblende, moderately to highly weathered ; strength index: R3-R4 *(Continued)*								
	295					9	ROTO SONIC	9.00 10.00		
85										
	290					10	ROTO SONIC	9.50 10.00	3/8" PEL-PLUG Bentonite Pellets	
90										
	285		Gneiss						Filter Sand	
95						11	ROTO SONIC	9.50 10.00	0.010" Slotted Schedule 40 PVC U-pack Screen	
	280									
100										
	275									
105					272.3					
		106.00 - 136.00 BIOTITE GNEISS, BEDROCK, black/white banded, finely and coarsely crystalline, containing quartz, mica, feldspar, amphibole, trace horneblende, moderately weathered to fresh ; strength index: R3-R4			106.00				Filter Sand	
	270								Bentonite	
110						12	ROTO SONIC	10.00 10.00		
	265		Gneiss							
115										
	260					13	ROTO SONIC	10.00 10.00		
120		Log continued on next page								

WELL CASING
Interval: 0'-106'
Material: Schedule 40 PVC
Diameter: 2"
Joint Type: Threaded

WELL SCREEN
Interval: 96'-106'
Material: 0.010" Slotted Schedule 40 PVC U-pack Screen
Diameter: 2"
Slot Size: 0.010"
End Cap: 3"

FILTER PACK
Interval: 93.9'-108.1'
Type: #1 Sand
Quantity: 4 - 50lb bags

FILTER PACK SEAL
Interval: 89.7'-93.9'
Type: 3/8" Pel-Plud
Quantity: 1 5 gallon bucket

ANNULUS SEAL
Interval: 0'-89.7'
Type: Aquaguard bentonite grout
Quantity: ~6 bags Aquaguard + ~100 gallons H2O

WELL COMPLETION
Pad: 4'x4'
Protective Casing: Aluminum

DRILLING METHODS
Soil Drill: Sonic
Rock Drill: Sonic

LOG SCALE: 1 in = 5 ft
DRILLING COMPANY: Cascade Environmental
DRILLER: Logan Hall

GA INSPECTOR: Chris Tidwell
CHECKED BY: Brian Steele, PG
DATE: 11/12/20

GOLDER

BOREHOLE RECORD PLANT_BRANCH_20200603_CT_SURVEY UPDATED.GPJ PIEDMONT.GDT 11/18/20

RECORD OF BOREHOLE PZ-50D

PROJECT: Plant Branch
PROJECT NUMBER: 1666254-01
DRILLED DEPTH: 136.00 ft
LOCATION: Adjacent to BRGWC-50

DRILL RIG: TSI 150T Truck Mounted
DATE STARTED: 10/5/20
DATE COMPLETED: 10/8/20

NORTHING: 1,161,588.9
EASTING: 2,562,381.2
GS ELEVATION: 378.3
TOC ELEVATION: 380.86 ft

DEPTH W.L.:21.72
ELEVATION W.L.: 356.58
DATE W.L.:10/8/2020
TIME W.L.:12:45

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE: DESCRIPTION	USCS	GRAPHIC LOG	ELEV. / DEPTH (ft)	SAMPLES: SAMPLE NO.	TYPE	REC	MONITORING WELL DIAGRAM and NOTES — PZ-50D	WELL CONSTRUCTION DETAILS
120		106.00 - 136.00 BIOTITE GNEISS, BEDROCK, black/white banded, finely and coarsely crystalline, containing quartz, mica, feldspar, amphibole, trace horneblende, moderately weathered to fresh ; strength index: R3-R4 *(Continued)*	Gneiss			13	ROTO SONIC	10.00 10.00		
125	255									
130	250					14	ROTO SONIC	10.00 10.00		
135	245				242.3					
140	240	Boring completed at 136.00 ft								
145	235									
150	230									
155	225									
160	220									

WELL CASING
Interval: 0'-106'
Material: Schedule 40 PVC
Diameter: 2"
Joint Type: Threaded

WELL SCREEN
Interval: 96'-106'
Material: 0.010" Slotted Schedule 40 PVC U-pack Screen
Diameter: 2"
Slot Size: 0.010"
End Cap: 3"

FILTER PACK
Interval: 93.9'-108.1'
Type: #1 Sand
Quantity: 4 - 50lb bags

FILTER PACK SEAL
Interval: 89.7'-93.9'
Type: 3/8" Pel-Plud
Quantity: 1 5 gallon bucket

ANNULUS SEAL
Interval: 0'-89.7'
Type: Aquaguard bentonite grout
Quantity: ~6 bags Aquaguard + ~100 gallons H2O

WELL COMPLETION
Pad: 4'x4'
Protective Casing: Aluminum

DRILLING METHODS
Soil Drill: Sonic
Rock Drill: Sonic

LOG SCALE: 1 in = 5 ft
DRILLING COMPANY: Cascade Environmental
DRILLER: Logan Hall

GA INSPECTOR: Chris Tidwell
CHECKED BY: Brian Steele, PG
DATE: 11/12/20

GOLDER

Location resurveyed June - July 2020

RECORD OF BOREHOLE PZ-51S

SHEET 1 of 2

PROJECT: Plant Branch
PROJECT NUMBER: 1666254-01
DRILLED DEPTH: 50.00 ft
LOCATION: East of Coal Pile near Lake

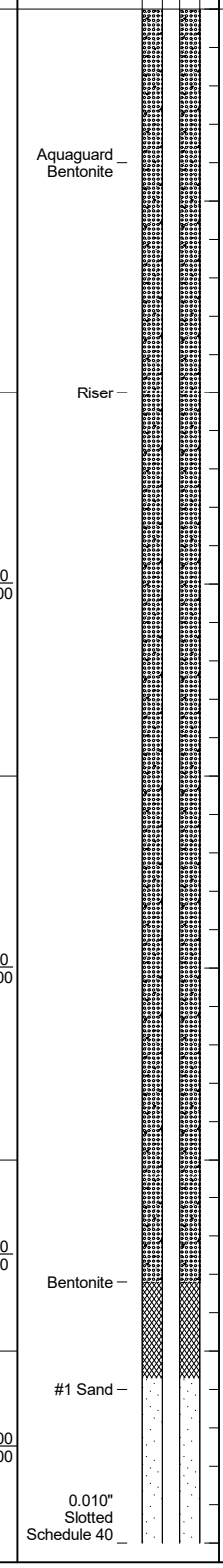
DRILL RIG: 8140LC
DATE STARTED: 8/2/18
DATE COMPLETED: 8/2/18

NORTHING: 1,161,613.40
EASTING: 2,562,433.10
GS ELEVATION: 377.9
TOC ELEVATION: 380.27 ft

DEPTH W.L.: 35.6
ELEVATION W.L.: 342.3
DATE W.L.: 8/1/2018
TIME W.L.: 14:56:00

DEPTH (ft)	ELEVATION (ft)	DESCRIPTION	USCS	GRAPHIC LOG	ELEV. / DEPTH (ft)	SAMPLE NO.	TYPE	REC
0		0.00 - 10.00 Soil was hydrovacuumed to 10 feet.			367.9			
10	375	10.00 - 20.00 Silty SAND, reddish brown, fine to medium grained, some relic structure, micaceous, cohesive, w>PL, dry, loose	SM		10.00 357.9	S - 1	ROTO SONIC	3.70 / 10.00
20	365	20.00 - 30.00 Silty SAND, reddish brown with black sand intrusions, fine to medium grained, micaceous, non-cohesive, moist, loose	SM		20.00 347.9	S - 2	ROTO SONIC	9.10 / 10.00
30	355	30.00 - 35.00 silty to clayey SAND, reddish brown w/ black sand intrusions, fine to medium grain, micaecoues, non-cohesive, moist to wet	SC-SM		30.00 342.9	S - 3	ROTO SONIC	5.00 / 5.00
40	345 340	35.00 - 45.00 silty SAND, reddish brown, fine to medium grained, micaecous, non-cohesive, moist to wet Log continued on next page	SM		35.00	S - 4	ROTO SONIC	10.00 / 10.00

MONITORING WELL/ PIEZOMETER DIAGRAM and NOTES



WELL CONSTRUCTION DETAILS

WELL CASING
Interval: 0'-50'
Material: Schedule 40 PVC
Diameter: 2"
Joint Type: Threaded

WELL SCREEN
Interval: 40.0'-45.0'
Material: 0.010" Slotted Schedule 40 PVC Pre-Pack Screen
Diameter: 2"
Slot Size: 0.010"
End Cap: 3"

FILTER PACK
Interval: 35.7'-47'
Type: #1 Sand

FILTER PACK SEAL
Interval: 45.4'-47.0'
Type: 3/8" PEL-PLUG

ANNULUS SEAL
Interval: 0'-33.2'
Type: AquaGuard Bentonite

WELL COMPLETION
Pad: 4' x 4'
Protective Casing: Aluminum

DRILLING METHODS
Soil Drill: Geoprobe
Rock Drill: N/A

LOG SCALE: 1 in = 5 ft
DRILLING COMPANY: Cascade Environmental, LLC
DRILLER: M.Rodriguez

GA INSPECTOR: Ben Hodges
CHECKED BY: Rachel Kirkman, PG
DATE: 9/6/18

GOLDER

BOREHOLE RECORD PLANT_BRANCH_20200603_SURVEY UPDATED-ATL1-L-BSTEELE.GPJ PIEDMONT.GDT 8/21/20

Location resurveyed June - July 2020

RECORD OF BOREHOLE PZ-51S

PROJECT: Plant Branch
PROJECT NUMBER: 1666254-01
DRILLED DEPTH: 50.00 ft
LOCATION: East of Coal Pile near Lake

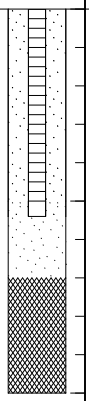
DRILL RIG: 8140LC
DATE STARTED: 8/2/18
DATE COMPLETED: 8/2/18

NORTHING: 1,161,613.40
EASTING: 2,562,433.10
GS ELEVATION: 377.9
TOC ELEVATION: 380.27 ft

DEPTH W.L.: 35.6
ELEVATION W.L.: 342.3
DATE W.L.: 8/1/2018
TIME W.L.: 14:56:00

DEPTH (ft)	ELEVATION (ft)	DESCRIPTION	USCS	GRAPHIC LOG	ELEV. / DEPTH (ft)	SAMPLE NO.	TYPE	REC
40		35.00 - 45.00 silty SAND, reddish brown, fine to medium grained, micaecous, non-cohesive, moist to wet *(Continued)*	SM			S - 4	ROTO SONIC	10.00 / 10.00
45	335				332.9			
		45.00 - 50.00 high plastic CLAY with some sand, dark brown, fine to coarse sand, dark brown, cohesive, dry, firm to stiff	CH		45.00	S - 5	ROTO SONIC	5.00 / 5.00
50	330				327.9			
		Boring completed at 50.00 ft						
	325							
55								
	320							
60								
	315							
65								
	310							
70								
	305							
75								
	300							
80								

MONITORING WELL/ PIEZOMETER DIAGRAM and NOTES



WELL CONSTRUCTION DETAILS

WELL CASING
Interval: 0'-50'
Material: Schedule 40 PVC
Diameter: 2"
Joint Type: Threaded

WELL SCREEN
Interval: 40.0'-45.0'
Material: 0.010" Slotted Schedule 40 PVC Pre-Pack Screen
Diameter: 2"
Slot Size: 0.010"
End Cap: 3"

FILTER PACK
Interval: 35.7'-47'
Type: #1 Sand

FILTER PACK SEAL
Interval: 45.4'-47.0'
Type: 3/8" PEL-PLUG

ANNULUS SEAL
Interval: 0'-33.2'
Type: AquaGuard Bentonite

WELL COMPLETION
Pad: 4' x 4'
Protective Casing: Aluminum

DRILLING METHODS
Soil Drill: Geoprobe
Rock Drill: N/A

LOG SCALE: 1 in = 5 ft
DRILLING COMPANY: Cascade Environmental, LLC
DRILLER: M.Rodriguez

GA INSPECTOR: Ben Hodges
CHECKED BY: Rachel Kirkman, PG
DATE: 9/6/18

GOLDER

BOREHOLE RECORD PLANT_BRANCH_20200603_SURVEY UPDATED-ATL1-L-BSTEELE.GPJ PIEDMONT.GDT 8/21/20

Location resurveyed June - July 2020

RECORD OF BOREHOLE PZ-51I

SHEET 1 of 2

PROJECT: Plant Branch
PROJECT NUMBER: 1666254-01
DRILLED DEPTH: 65.00 ft
LOCATION: East of Pond B

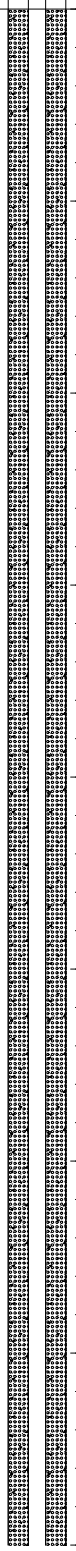
DRILL RIG: 8140LC
DATE STARTED: 8/1/18
DATE COMPLETED: 8/1/18

NORTHING: 1,161,631.10
EASTING: 2,562,439.30
GS ELEVATION: 378.0
TOC ELEVATION: 380.52 ft

DEPTH W.L.: 35.20'
ELEVATION W.L.: 342.8
DATE W.L.: 8/3/2018
TIME W.L.: 08:33:00

DEPTH (ft)	ELEVATION (ft)	DESCRIPTION	USCS	GRAPHIC LOG	ELEV. / DEPTH (ft)	SAMPLE NO.	TYPE	REC
0		0.00 - 10.00 Soil was hydrovacuumed to 10 feet.			368			
10	375	10.00 - 20.00 silty SAND, reddish brown with white mottling, fine to coarse, some relic structure, non-cohesive, dy, loose	SM		10.00 358	S - 1	ROTO SONIC	2.70 10.00
20	365	20.00 - 25.00 silty SAND with trace gravel, fine to coarse	SM		20.00 353	S - 2	ROTO SONIC	4.00 5.00
25	355	25.00 - 35.00 silty SAND with some boulders > 3inches, dark brown fine to coarse, non-cohesive, dry, loose to compact	SM		25.00 343	S - 3	ROTO SONIC	8.40 10.00
35	345	35.00 - 45.00 silty SAND, fine to coarse, relic granitic structure, micaecous, non-cohesive, moist, loose to compact	SM		35.00	S - 4	ROTO SONIC	5.50 10.00
40	340	Log continued on next page						

MONITORING WELL/ PIEZOMETER DIAGRAM and NOTES



WELL CONSTRUCTION DETAILS

WELL CASING
Interval: 0'-65'
Material: Schedule 40 PVC
Diameter: 2"
Joint Type: Threaded

WELL SCREEN
Interval: 54.9-64.9'
Material: 0.010" Slotted Schedule 40 PVC Pre-Pack Screen
Diameter: 2"
Slot Size: 0.010"
End Cap: 3"

FILTER PACK
Interval: 52.5'-65.0'
Type: #1 Sand

FILTER PACK SEAL
Interval: 49.2'-52.5'
Type: 3/8" PEL-PLUG

ANNULUS SEAL
Interval: 0'-49.2'
Type: Portland Cement and Quick Gel Bentonite Mix

WELL COMPLETION
Pad: 4' x 4'
Protective Casing: Aluminum

DRILLING METHODS
Soil Drill: Geoprobe
Rock Drill: N/A

LOG SCALE: 1 in = 5 ft
DRILLING COMPANY: Cascade Environmental, LLC
DRILLER: M. Rodriguez

GA INSPECTOR: Ben Hodges
CHECKED BY: Rachel Kirkman, PG
DATE: 9/6/18

GOLDER

BOREHOLE RECORD PLANT_BRANCH_20200603_SURVEY UPDATED-ATL1-L-BSTEELE.GPJ PIEDMONT.GDT 8/21/20

Location resurveyed June - July 2020

RECORD OF BOREHOLE PZ-51I

SHEET 2 of 2

PROJECT: Plant Branch
PROJECT NUMBER: 1666254-01
DRILLED DEPTH: 65.00 ft
LOCATION: East of Pond B

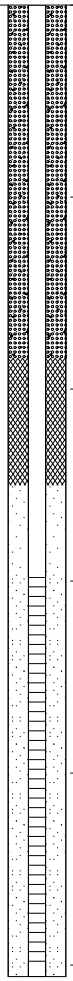
DRILL RIG: 8140LC
DATE STARTED: 8/1/18
DATE COMPLETED: 8/1/18

NORTHING: 1,161,631.10
EASTING: 2,562,439.30
GS ELEVATION: 378.0
TOC ELEVATION: 380.52 ft

DEPTH W.L.: 35.20'
ELEVATION W.L.: 342.8
DATE W.L.: 8/3/2018
TIME W.L.: 08:33:00

DEPTH (ft)	ELEVATION (ft)	DESCRIPTION	USCS	GRAPHIC LOG	ELEV. / DEPTH (ft)	SAMPLE NO.	TYPE	REC
40		35.00 - 45.00 silty SAND, fine to coarse, relic granitic structure, micaecous, non-cohesive, moist, loose to compact *(Continued)*	SM			S - 4	ROTO SONIC	5.50 / 10.00
	335				333			
45		45.00 - 53.50 high plastic CLAY, clay with some sand, sand fine to medium, light reddish brown, cohesive, moist to wet, stiff	CH		45.00	S - 5	ROTO SONIC	8.50 / 8.50
	330							
50								
	325				324.5			
		53.50 - 55.00 silty Sand, reddish brown, relic foliation, micaceous, moist, loose to compact	SM		53.50 323	S - 6	ROTO SONIC	- / 6.50
55		55.00 - 58.00 Saprolte, silty SAND with some gravel, sand and gravel fine to coarse	SM		55.00 320			
	320	58.00 - 60.00 BIOTITE GNEISS, gravel, highly weathered, very weak dry	BR		58.00 318			
60		60.00 - 65.00 BIOTITE GNEISS, banded white with dark brown, large grained, highly weathered, strong	BR		60.00	S - 7	ROTO SONIC	3.10 / 5.00
	315				313			
65		Boring completed at 65.00 ft						
	310							
70								
	305							
75								
	300							
80								

MONITORING WELL/ PIEZOMETER DIAGRAM and NOTES



WELL CONSTRUCTION DETAILS

WELL CASING
Interval: 0'-65'
Material: Schedule 40 PVC
Diameter: 2"
Joint Type: Threaded

WELL SCREEN
Interval: 54.9-64.9'
Material: 0.010" Slotted Schedule 40 PVC Pre-Pack Screen
Diameter: 2"
Slot Size: 0.010"
End Cap: 3"

FILTER PACK
Interval: 52.5'-65.0'
Type: #1 Sand

FILTER PACK SEAL
Interval: 49.2'-52.5'
Type: 3/8" PEL-PLUG

ANNULUS SEAL
Interval: 0'-49.2'
Type: Portland Cement and Quick Gel Bentonite Mix

WELL COMPLETION
Pad: 4' x 4'
Protective Casing: Aluminum

DRILLING METHODS
Soil Drill: Geoprobe
Rock Drill: N/A

LOG SCALE: 1 in = 5 ft
DRILLING COMPANY: Cascade Environmental, LLC
DRILLER: M. Rodriguez

GA INSPECTOR: Ben Hodges
CHECKED BY: Rachel Kirkman, PG
DATE: 9/6/18

GOLDER

BOREHOLE RECORD PLANT_BRANCH_20200603_SURVEY UPDATED-ATL1-L-BSTEELE.GPJ PIEDMONT.GDT 8/21/20

RECORD OF BOREHOLE PZ-51D

PROJECT: Plant Branch
PROJECT NUMBER: 1666254-01
DRILLED DEPTH: 126.00 ft
LOCATION: Adjacent to PZ-51I

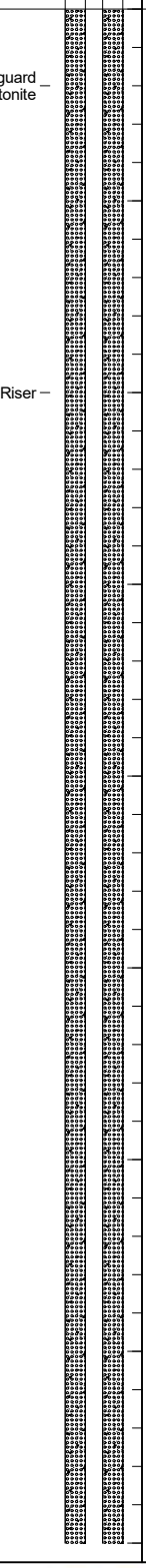
DRILL RIG: TSI 150T Truck Mounted
DATE STARTED: 10/8/20
DATE COMPLETED: 10/9/20

NORTHING: 1,161,639.8
EASTING: 2,562,434.0
GS ELEVATION: 378.1
TOC ELEVATION: 380.75 ft

DEPTH W.L.:38.36'
ELEVATION W.L.: 339.74
DATE W.L.:10/14/2020
TIME W.L.:11:00

DEPTH (ft)	ELEVATION (ft)	DESCRIPTION	USCS	GRAPHIC LOG	ELEV. / DEPTH (ft)	SAMPLE NO.	TYPE	REC
0	378	0.00 - 6.00 HYDROVAC HOLE BACKFILL, SM; SILTY SAND, red, micaceous, highly weathered, non-cohesive, loose, wet	SM		372.1	1	ROTO SONIC	2.70 / 6.00
5	375							
		6.00 - 12.00 CL; SANDY CLAY, red/orange; highly weathered RESIDUUM, cohesive, firm, w~PL	CL		6.00 366.1	2	ROTO SONIC	5.00 / 10.00
10	370							
		12.00 - 36.00 SM; SILTY SAND, trace clay and gravel, gray with red/orange clay, micaceous, highly weathered RESIDUUM, non-cohesive, loose, dry to moist	SM		12.00	3	ROTO SONIC	4.10 / 10.00
15	365							
						4	ROTO SONIC	6.20 / 10.00
20	360							
					342.1			
25	355							
		36.00 - 46.00 No Recovery	SM		36.00	5	ROTO SONIC	0.00 / 10.00
30	350							
35	345							
40	340	Log continued on next page						

MONITORING WELL DIAGRAM and NOTES — PZ-51D



WELL CONSTRUCTION DETAILS

WELL CASING
Interval: 0'-106'
Material: Schedule 40 PVC
Diameter: 2"
Joint Type: Threaded

WELL SCREEN
Interval: 96'-106'
Material: 0.010" Slotted Schedule 40 PVC U-pack Screen
Diameter: 2"
Slot Size: 0.010"
End Cap: 3"

FILTER PACK
Interval: 93.6'-108.2
Type: #1 Sand
Quantity: 5 - 50lb bags

FILTER PACK SEAL
Interval: 89.5'-93.6'
Type: 3/8" Pel-Plug
Quantity: 1 x 5 gallon bucket

ANNULUS SEAL
Interval: 0'-89.5'
Type: Aquaguard bentonite grout
Quantity: ~6 bags Aquaguard + ~100 gallons H2O

WELL COMPLETION
Pad: 4'x4'
Protective Casing: Aluminum

DRILLING METHODS
Soil Drill: Sonic
Rock Drill: Sonic

LOG SCALE: 1 in = 5 ft
DRILLING COMPANY: Cascade Environmental
DRILLER: Logan Hall

GA INSPECTOR: Chris Tidwell
CHECKED BY: Brian Steele, PG
DATE: 11/12/20

GOLDER

BOREHOLE RECORD PLANT_BRANCH_20200603_CT_SURVEY UPDATED.GPJ PIEDMONT.GDT 11/18/20

RECORD OF BOREHOLE PZ-51D

PROJECT: Plant Branch
PROJECT NUMBER: 1666254-01
DRILLED DEPTH: 126.00 ft
LOCATION: Adjacent to PZ-51I

DRILL RIG: TSI 150T Truck Mounted
DATE STARTED: 10/8/20
DATE COMPLETED: 10/9/20

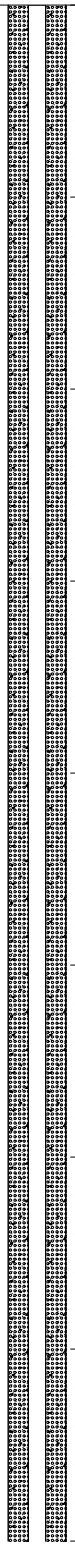
NORTHING: 1,161,639.8
EASTING: 2,562,434.0
GS ELEVATION: 378.1
TOC ELEVATION: 380.75 ft

DEPTH W.L.:38.36'
ELEVATION W.L.: 339.74
DATE W.L.:10/14/2020
TIME W.L.:11:00

DEPTH (ft)	ELEVATION (ft)	DESCRIPTION	USCS	GRAPHIC LOG	ELEV. / DEPTH (ft)	SAMPLE NO.	TYPE	REC
40		36.00 - 46.00 No Recovery *(Continued)*	SM		332.1	5	ROTO SONIC	0.00 10.00
45	335							
		46.00 - 57.70 CH; SANDY-SILTY CLAY, dark brown/grey, micaceous, moderately weathered RESIDUUM, cohesive, stiff to very stiff, w<PL to w~PL	CH		46.00	6	ROTO SONIC	10.00 10.00
50	330							
55	325							
					320.4			
	320	57.70 - 65.00 SM; SILTY SAND WITH GRAVEL, trace clay, brown and light tan, micaceous, slightly weathered SAPROLITE, non-cohesive, loose to compact, dry	SM		57.70	7	ROTO SONIC	10.00 10.00
60								
65	315				313.1			
		65.00 - 74.10 GM; SILTY-SANDY GRAVEL, gravels of gneiss with black/white banding; highly weathered TWR, non-cohesive, dense, wet (possibly from drilling water), no recovery from 66-74.1.	TWR		65.00	8	ROTO SONIC	1.90 10.00
70	310							
	305				304			
75		74.10 - 96.00 BIOTITE GNEISS, BEDROCK, black/white banded, finely and coarsely crystalline, containing quartz, mica, feldspar, amphibole, trace horneblende, moderately weathered; strength index: R3-R4	Gneiss		74.10	9	ROTO SONIC	9.50 10.00
	300							
80		Log continued on next page						

MONITORING WELL DIAGRAM and NOTES

PZ-51D



WELL CONSTRUCTION DETAILS

WELL CASING
Interval: 0'-106'
Material: Schedule 40 PVC
Diameter: 2"
Joint Type: Threaded

WELL SCREEN
Interval: 96'-106'
Material: 0.010" Slotted Schedule 40 PVC U-pack Screen
Diameter: 2"
Slot Size: 0.010"
End Cap: 3"

FILTER PACK
Interval: 93.6'-108.2
Type: #1 Sand
Quantity: 5 - 50lb bags

FILTER PACK SEAL
Interval: 89.5'-93.6'
Type: 3/8" Pel-Plug
Quantity: 1 x 5 gallon bucket

ANNULUS SEAL
Interval: 0'-89.5'
Type: Aquaguard bentonite grout
Quantity: ~6 bags Aquaguard + ~100 gallons H2O

WELL COMPLETION
Pad: 4'x4'
Protective Casing: Aluminum

DRILLING METHODS
Soil Drill: Sonic
Rock Drill: Sonic

LOG SCALE: 1 in = 5 ft
DRILLING COMPANY: Cascade Environmental
DRILLER: Logan Hall

GA INSPECTOR: Chris Tidwell
CHECKED BY: Brian Steele, PG
DATE: 11/12/20

GOLDER

RECORD OF BOREHOLE PZ-51D

PROJECT: Plant Branch
PROJECT NUMBER: 1666254-01
DRILLED DEPTH: 126.00 ft
LOCATION: Adjacent to PZ-51I

DRILL RIG: TSI 150T Truck Mounted
DATE STARTED: 10/8/20
DATE COMPLETED: 10/9/20

NORTHING: 1,161,639.8
EASTING: 2,562,434.0
GS ELEVATION: 378.1
TOC ELEVATION: 380.75 ft

DEPTH W.L.:38.36'
ELEVATION W.L.: 339.74
DATE W.L.:10/14/2020
TIME W.L.:11:00

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE: DESCRIPTION	USCS	GRAPHIC LOG	ELEV. / DEPTH (ft)	SAMPLES: SAMPLE NO.	TYPE	REC	MONITORING WELL DIAGRAM and NOTES: PZ-51D	WELL CONSTRUCTION DETAILS
80		74.10 - 96.00 BIOTITE GNEISS, BEDROCK, black/white banded, finely and coarsely crystalline, containing quartz, mica, feldspar, amphibole, trace horneblende, moderately weathered; strength index: R3-R4 *(Continued)*								
	295					9	ROTO SONIC	9.50 10.00		
85										
	290		Gneiss						3/8" PEL-PLUG Bentonite Pellets	
90						10	ROTO SONIC	10.00 10.00		
	285								Filter Sand	
95					282.1					
		96.00 - 106.00 BIOTITE GNEISS, BEDROCK, black/white banded, finely and coarsely crystalline, containing quartz, mica, feldspar, amphibole, trace horneblende, highly weathered; strength index: R2-R3			96.00					
	280								0.010" Slotted Schedule 40 PVC U-pack Screen	
100			Gneiss			11	ROTO SONIC	9.50 10.00		
	275									
105					272.1					
		106.00 - 126.00 BIOTITE GNEISS, BEDROCK, black/white banded, finely and coarsely crystalline, containing quartz, mica, feldspar, amphibole, trace horneblende, moderately weathered to fresh; strength index: R3-R4			106.00				Filter Sand	
	270									
110									Bentonite	
						12	ROTO SONIC	10.00 10.00		
	265		Gneiss							
115										
						13	ROTO SONIC	9.50 10.00		
	260									
120		Log continued on next page								

WELL CASING
Interval: 0'-106'
Material: Schedule 40 PVC
Diameter: 2"
Joint Type: Threaded

WELL SCREEN
Interval: 96'-106'
Material: 0.010" Slotted Schedule 40 PVC U-pack Screen
Diameter: 2"
Slot Size: 0.010"
End Cap: 3"

FILTER PACK
Interval: 93.6'-108.2
Type: #1 Sand
Quantity: 5 - 50lb bags

FILTER PACK SEAL
Interval: 89.5'-93.6'
Type: 3/8" Pel-Plug
Quantity: 1 x 5 gallon bucket

ANNULUS SEAL
Interval: 0'-89.5'
Type: Aquaguard bentonite grout
Quantity: ~6 bags Aquaguard + ~100 gallons H2O

WELL COMPLETION
Pad: 4'x4'
Protective Casing: Aluminum

DRILLING METHODS
Soil Drill: Sonic
Rock Drill: Sonic

LOG SCALE: 1 in = 5 ft
DRILLING COMPANY: Cascade Environmental
DRILLER: Logan Hall

GA INSPECTOR: Chris Tidwell
CHECKED BY: Brian Steele, PG
DATE: 11/12/20

GOLDER

BOREHOLE RECORD PLANT_BRANCH_20200603_CT_SURVEY UPDATED.GPJ PIEDMONT.GDT 11/18/20

RECORD OF BOREHOLE PZ-51D

PROJECT: Plant Branch
PROJECT NUMBER: 1666254-01
DRILLED DEPTH: 126.00 ft
LOCATION: Adjacent to PZ-51I

DRILL RIG: TSI 150T Truck Mounted
DATE STARTED: 10/8/20
DATE COMPLETED: 10/9/20

NORTHING: 1,161,639.8
EASTING: 2,562,434.0
GS ELEVATION: 378.1
TOC ELEVATION: 380.75 ft

DEPTH W.L.:38.36'
ELEVATION W.L.: 339.74
DATE W.L.:10/14/2020
TIME W.L.:11:00

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE: DESCRIPTION	USCS	GRAPHIC LOG	ELEV. / DEPTH (ft)	SAMPLES: SAMPLE NO.	TYPE	REC	MONITORING WELL DIAGRAM and NOTES: PZ-51D	WELL CONSTRUCTION DETAILS
120		106.00 - 126.00 BIOTITE GNEISS, BEDROCK, black/white banded, finely and coarsely crystalline, containing quartz, mica, feldspar, amphibole, trace horneblende, moderately weathered to fresh; strength index: R3-R4 *(Continued)*	Gneiss		252.1	13	ROTO SONIC	9.50 10.00		
125	255	Boring completed at 126.00 ft								
130	250									
135	245									
140	240									
145	235									
150	230									
155	225									
160	220									

WELL CASING
Interval: 0'-106'
Material: Schedule 40 PVC
Diameter: 2"
Joint Type: Threaded

WELL SCREEN
Interval: 96'-106'
Material: 0.010" Slotted Schedule 40 PVC U-pack Screen
Diameter: 2"
Slot Size: 0.010"
End Cap: 3"

FILTER PACK
Interval: 93.6'-108.2
Type: #1 Sand
Quantity: 5 - 50lb bags

FILTER PACK SEAL
Interval: 89.5'-93.6'
Type: 3/8" Pel-Plug
Quantity: 1 x 5 gallon bucket

ANNULUS SEAL
Interval: 0'-89.5'
Type: Aquaguard bentonite grout
Quantity: ~6 bags Aquaguard + ~100 gallons H2O

WELL COMPLETION
Pad: 4'x4'
Protective Casing: Aluminum

DRILLING METHODS
Soil Drill: Sonic
Rock Drill: Sonic

LOG SCALE: 1 in = 5 ft
DRILLING COMPANY: Cascade Environmental
DRILLER: Logan Hall

GA INSPECTOR: Chris Tidwell
CHECKED BY: Brian Steele, PG
DATE: 11/12/20

GOLDER

BOREHOLE RECORD PLANT_BRANCH_20200603_CT_SURVEY UPDATED.GPJ PIEDMONT.GDT 11/18/20

RECORD OF BOREHOLE PZ-57I

SHEET 1 of 2

PROJECT: SCS Plant Branch
PROJECT NUMBER: 166625421
DRILLED DEPTH: 77.40 ft
LOCATION: Milledgeville, GA

DRILL RIG: TSI 150T Truck-Mounted
DATE STARTED: 3/23/21
DATE COMPLETED: 3/24/21

NORTHING: 1,161,582.20
EASTING: 2,562,170.20
GS ELEVATION: 379.4
TOC ELEVATION: 382.50 ft

DEPTH W.L.:36.48
ELEVATION W.L.: 346.02
DATE W.L.:4/6/21
TIME W.L.:15:25

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE: DESCRIPTION	USCS	GRAPHIC LOG	ELEV. / DEPTH (ft)	SAMPLES: SAMPLE NO.	PHOTO	REC	PIEZOMETER DIAGRAM and NOTES
0		0.00 - 6.00 HYDROVAC HOLE, [BACKFILL], SM, silty sand, brown, micaceous, highly weathered , non-cohesive, loose	SM		373.4	1		2.00 6.50	Bentonite Grout
5	375								
		6.00 - 11.00 No Recovery, washout			6.00 368.4				
10	370								
		11.00 - 13.00 (RESIDUUM) SM, silty sand/sandy silt, brown, black, tan, micaceous, higly weathered, non-cohesive, loose. Weathered biotite gneiss piece at 11.25'	SM		11.00 366.4	2		5.00 10.00	
		13.00 - 14.00 SM-SC, sandy silt/sandy clay, reddish brown; moderately to highly weathered, medium plasticity clay, non-cohesive, loose	SM-SC		13.00 365.4				
15	365	14.00 - 16.50 SM, silty sand/sandy silt, brown, micaceous with biotite and quartz, moderately to highly weathered, non-cohesive, loose	SM		14.00 362.9				
		16.50 - 20.50 No Recovery. 2" lens of saprolite at 20.5'			16.50 358.9				
20	360								
		20.50 - 22.50 SM, silty sand/sandy silt with trace clay, brown, micaceous with biotite and quartz, moderately to highly weathered, non-cohesive, loose	SM		20.50 356.9	3		6.00 10.00	
		22.50 - 23.50 SM-SC, sandy silt/sandy clay, reddish brown, highly weathered, non-cohesive, loose	SM-SC		22.50 355.9				
25	355	23.50 - 26.50 SM, silty sand/sandy silt, brown, micaceous with biotite and quartz, moderately to highly weathered, non-cohesive, loose	SM		23.50 352.9				
		26.50 - 35.00 SC, sandy clay/clayey sand, high plasticity clay, brown and grey	SC		26.50	4		10.00 10.00	
30	350								
35	345				344.4				
		35.00 - 36.50 SM, silty sand/sandy silt, brown, micaceous. moderately to highly weathered, loose, saprolite	SM-SC		35.00 342.9				
		36.50 - 40.50 No Recovery, washout			36.50				
40	340				338.9				
		40.50 - 41.50 SM-SC, silty sand/sandy silt and sandy clay, medium plasticity clay, greyish brown, moderately to highly weathered, cohesive, firm	SM-SC		40.50 337.9	5		6.00 10.00	
		41.50 - 54.00 SC-CL, sandy clay, brownish red, moderately to highly weathered, cohesive, stiff	SC-CL		41.50				
45	335					6		8.00 10.00	
50	330	Log continued on next page							

PIEZOMETER CONSTRUCTION DETAILS

WELL CASING
Interval: 0'-65.6'
Material: Schedule 40 PVC
Diameter: 2"
Joint Type: Threaded

WELL SCREEN
Interval: 65.6'-75.6'
Material: 0.010" Slotted Schedule 40 PVC U-pack Screen
Diameter: 2"
Slot Size: 0.010"
End Cap: 4"

FILTER PACK
Interval: 63.3'-77.4'
Type: #1 sand
Quantity: 4.25 x 14L bags

FILTER PACK SEAL
Interval: 60.2'-63.3'
Type: 3/8" Pel-Plug Benotite Pellets
Quantity: 1 x 5 gallon bucket

ANNULUS SEAL
Interval: 0'-60.2'
Type: Aquaguard bentonite grout
Quantity: 4 bags + 70 gal H2O

WELL COMPLETION
Pad: 4'x4'
Protective Casing: Aluminum

DRILLING METHODS
Soil Drill: 4-inch Sonic
Rock Drill: NA
Sample Type: Rotosonic

LOG SCALE: 1 in = 6.5 ft
DRILLING COMPANY: Cascade Environmental
DRILLER: Donald Myles

INSPECTOR: Brian Steele, PG
CHECKED BY: Rachel P. Kirkman, PG
DATE: 5/14/21

GOLDER
MEMBER OF WSP

BOREHOLE RECORD PLANT BRANCH PIEZO MARCH 2021.GPJ PIEDMONT.GDT 5/21/21

RECORD OF BOREHOLE PZ-57I

PROJECT: SCS Plant Branch
PROJECT NUMBER: 166625421
DRILLED DEPTH: 77.40 ft
LOCATION: Milledgeville, GA

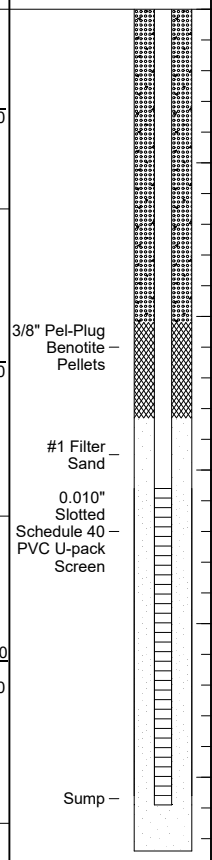
DRILL RIG: TSI 150T Truck-Mounted
DATE STARTED: 3/23/21
DATE COMPLETED: 3/24/21

NORTHING: 1,161,582.20
EASTING: 2,562,170.20
GS ELEVATION: 379.4
TOC ELEVATION: 382.50 ft

DEPTH W.L.:36.48
ELEVATION W.L.: 346.02
DATE W.L.:4/6/21
TIME W.L.:15:25

DEPTH (ft)	ELEVATION (ft)	DESCRIPTION	USCS	GRAPHIC LOG	ELEV. / DEPTH (ft)	SAMPLE NO.	PHOTO	REC
50		41.50 - 54.00 SC-CL, sandy clay, brownish red, moderately to highly weathered, cohesive, stiff *(Continued)*	SC-CL		325.4	6		8.00 / 10.00
55	325	54.00 - 56.50 SM, silty sand/sandy silt, brown, micaceous, moderately to highly weathered, non-cohesive, loose	SM		54.00 322.9			
		56.50 - 58.50 No Recovery, washout			56.50 320.9			
60	320	58.50 - 63.00 SC-CL, sandy clay, brownish red, moderately to highly weathered, cohesive, stiff	SC-CL		58.50 316.4	7		8.00 / 10.00
65	315	63.00 - 66.50 SM, silty sand/sandy silt with trace clay, greyish brown with some tan, micaceous with biotite and quartz, some saprolite, non-cohesive, loose	SM		63.00 312.9			
70	310	66.50 - 77.40 Transitionally weathered rock (TWR) GM, silty sandy gravel, gravel sized fragments of gneiss with black and white banding, non-cohesive	TWR		66.50	8		10.00 / 10.00
75	305				302			
		Boring completed at 77.40 ft						
80	300							
85	295							
90	290							
95	285							
100	280							

PIEZOMETER DIAGRAM and NOTES



PIEZOMETER CONSTRUCTION DETAILS

WELL CASING
Interval: 0'-65.6'
Material: Schedule 40 PVC
Diameter: 2"
Joint Type: Threaded

WELL SCREEN
Interval: 65.6'-75.6'
Material: 0.010" Slotted Schedule 40 PVC U-pack Screen
Diameter: 2"
Slot Size: 0.010"
End Cap: 4"

FILTER PACK
Interval: 63.3'-77.4'
Type: #1 sand
Quantity: 4.25 x 14L bags

FILTER PACK SEAL
Interval: 60.2'-63.3'
Type: 3/8" Pel-Plug Benotite Pellets
Quantity: 1 x 5 gallon bucket

ANNULUS SEAL
Interval: 0'-60.2'
Type: Aquaguard bentonite grout
Quantity: 4 bags + 70 gal H2O

WELL COMPLETION
Pad: 4'x4'
Protective Casing: Aluminum

DRILLING METHODS
Soil Drill: 4-inch Sonic
Rock Drill: NA
Sample Type: Rotosonic

LOG SCALE: 1 in = 6.5 ft
DRILLING COMPANY: Cascade Environmental
DRILLER: Donald Myles

INSPECTOR: Brian Steele, PG
CHECKED BY: Rachel P. Kirkman, PG
DATE: 5/14/21

GOLDER
MEMBER OF WSP

RECORD OF BOREHOLE PZ-58I

PROJECT: SCS Plant Branch
PROJECT NUMBER: 166625421
DRILLED DEPTH: 66.80 ft
LOCATION: Milledgeville, GA

DRILL RIG: TSI 150T Truck-Mounted
DATE STARTED: 3/25/21
DATE COMPLETED: 3/27/21

NORTHING: 1,161,579.10
EASTING: 2,562,297.90
GS ELEVATION: 379.3
TOC ELEVATION: 382.27 ft

DEPTH W.L.:37.15
ELEVATION W.L.: 345.12
DATE W.L.:4/5/21
TIME W.L.:14:10

DEPTH (ft)	ELEVATION (ft)	DESCRIPTION	USCS	GRAPHIC LOG	ELEV. / DEPTH (ft)	SAMPLE NO.	PHOTO	REC	PIEZOMETER DIAGRAM and NOTES
0		0.00 - 5.50 SM, silty sand, brown, micaceous, highly weathered, non-cohesive, loose	SM		373.8	1		5.50 5.50	Bentonite Grout
5	375	5.50 - 7.50 No recovery, washout			5.50 371.8				
10	370	7.50 - 15.50 SM, silty sand with trace clay and gravel, brown, micaceous, highly weathered, non-cohesive, loose; 4" thick lens of clay with some sand at 9.5', w>PL; below clay 4" biotite gneiss riprap; trace angular gravels of biotite gneiss with biotite, quartz and plagioclase throughout run	SM		7.50 363.8	2		8.00 10.00	
15	365	15.50 - 19.50 No recovery, washout			15.50 359.8				
20	360	19.50 - 25.50 SM, silty sand with trace clay and gravel, brown, micaceous, highly weathered, non-cohesive, loose;1.5" lens of biotite gneiss riprap: cobble-size gravels of biotite gneiss with biotite, quartz and plagioclase	SM		19.50 353.8	3		6.00 10.00	
25	355	25.50 - 29.50 No recovery, washout			25.50 349.8				
30	350	29.50 - 31.00 SM, silty sand, brown, micaceous, highly weathered, non-cohesive, loose	SM		29.50 348.3	4		6.00 10.00	
35	345	31.00 - 35.00 CL; sandy clay, brown, cohesive, stiff to very stiff, w>PL	CL		31.00 344.3				
		35.00 - 35.50 OL, organic soils, black, roots and plant materials visible with sandy silt mixed, non-cohesive, loose	OL		35.50	5		10.00 10.00	
		35.50 - 39.00 CH, clay with some organics and some silt, reddish brown, micaceous, cohesive, stiff to very stiff, w>PL	CH		340.3				
40	340	39.00 - 43.00 SM, silty sand, reddish brown, micaceous, cohesive	SM		39.00 336.3				
45	335	43.00 - 45.50 GM, silty sandy gravel, light tan to grey, biotite gneiss gravels and cobbles , biotite, quartz, plagioclase; non-cohesive, loose	GM		43.00 333.8				
		45.50 - 47.50 SM, silty sand, reddish brown, micaceous, cohesive	SM		45.50 331.8	6		3.50 3.50	3/8" Pel-Plug Benotite Pellets
		47.50 - 49.00 Transitionally weathered rock (TWR) GM, silty sandy gravel, light tan to grey, biotite gneiss gravels and cobbles , biotite, quartz, plagioclase; non-cohesive, loose.	TWR		47.50 330.3				
50	330	Log continued on next page	Bedrock		49.00	7		6.00	

PIEZOMETER CONSTRUCTION DETAILS

WELL CASING
Interval: 0'-53.6
Material: Schedule 40 PVC
Diameter: 2"
Joint Type: Threaded

WELL SCREEN
Interval: 53.6'-63.6'
Material: 0.010" Slotted Schedule 40 PVC U-pack Screen
Diameter: 2"
Slot Size: 0.010"
End Cap: 4"

FILTER PACK
Interval: 50'-66.8'
Type: #1 sand
Quantity: 4.5 x 14L bags

FILTER PACK SEAL
Interval: 46.4'-50'
Type: 3/8" Pel-Plug Benotite Pellets
Quantity: 1 x 5 gal bucket

ANNULUS SEAL
Interval: 0'-46.4'
Type: Aquaguard bentonite grout
Quantity: 3.5 bags + 60 gal H2O

WELL COMPLETION
Pad: 4'x4'
Protective Casing: Aluminum

DRILLING METHODS
Soil Drill: 4-inch Sonic
Rock Drill: NA
Sample Type: Rotosonic

NOTES
Angled piezometer, drilled at 13 degrees from vertical

LOG SCALE: 1 in = 6.5 ft
DRILLING COMPANY: Cascade Environmental
DRILLER: Donald Myles

INSPECTOR: Brian Steele, PG
CHECKED BY: Rachel P. Kirkman, PG
DATE: 5/14/21

GOLDER
MEMBER OF WSP

RECORD OF BOREHOLE PZ-58I

PROJECT: SCS Plant Branch
PROJECT NUMBER: 166625421
DRILLED DEPTH: 66.80 ft
LOCATION: Milledgeville, GA

DRILL RIG: TSI 150T Truck-Mounted
DATE STARTED: 3/25/21
DATE COMPLETED: 3/27/21

NORTHING: 1,161,579.10
EASTING: 2,562,297.90
GS ELEVATION: 379.3
TOC ELEVATION: 382.27 ft

DEPTH W.L.:37.15
ELEVATION W.L.: 345.12
DATE W.L.:4/5/21
TIME W.L.:14:10

DEPTH (ft)	ELEVATION (ft)	DESCRIPTION	USCS	GRAPHIC LOG	ELEV. / DEPTH (ft)	SAMPLE NO.	PHOTO	REC	PIEZOMETER DIAGRAM and NOTES	PIEZOMETER CONSTRUCTION DETAILS
50		49.00 - 51.50 (BEDROCK) Biotite Gneiss, black and white banded with biotite, quartz, plagioclase, and hornblende *(Continued)*	Bedrock		327.8			6.00	#1 Filter Sand	**WELL CASING** Interval: 0'-53.6 Material: Schedule 40 PVC Diameter: 2" Joint Type: Threaded
		51.50 - 63.00 Transitionally weathered rock (TWR) SW-GW, coarse sand and gravel, brown to light brown, micaceous, non-cohesive, loose			51.50	7		6.00 6.00		
55	325		TWR						0.010" Slotted Schedule 40 PVC U-pack Screen	**WELL SCREEN** Interval: 53.6'-63.6' Material: 0.010" Slotted Schedule 40 PVC U-pack Screen Diameter: 2" Slot Size: 0.010" End Cap: 4"
60	320					8		7.50 7.50		**FILTER PACK** Interval: 50'-66.8' Type: #1 sand Quantity: 4.5 x 14L bags
					316.3					**FILTER PACK SEAL** Interval: 46.4'-50' Type: 3/8" Pel-Plug Benotite Pellets Quantity: 1 x 5 gal bucket
65	315	63.00 - 66.80 (BEDROCK) Biotite Gneiss, black and white banded with biotite, quartz, plagioclase, and hornblende	Bedrock		63.00	9		4.30 4.30	Sump	**ANNULUS SEAL** Interval: 0'-46.4' Type: Aquaguard bentonite grout Quantity: 3.5 bags + 60 gal H2O
					312.5					
		Boring completed at 66.80 ft								**WELL COMPLETION** Pad: 4'x4' Protective Casing: Aluminum
70	310									**DRILLING METHODS** Soil Drill: 4-inch Sonic Rock Drill: NA Sample Type: Rotosonic
75	305									**NOTES** Angled piezometer, drilled at 13 degrees from vertical
80	300									
85	295									
90	290									
95	285									
100	280									

LOG SCALE: 1 in = 6.5 ft
DRILLING COMPANY: Cascade Environmental
DRILLER: Donald Myles

INSPECTOR: Brian Steele, PG
CHECKED BY: Rachel P. Kirkman, PG
DATE: 5/14/21

GOLDER
MEMBER OF WSP

RECORD OF BOREHOLE PZ-59I

PROJECT: SCS Plant Branch
PROJECT NUMBER: 166625421
DRILLED DEPTH: 66.00 ft
LOCATION: Milledgeville, GA

DRILL RIG: TSI 150T Truck-Mounted
DATE STARTED: 3/30/21
DATE COMPLETED: 3/31/21

NORTHING: 1,161,654.90
EASTING: 2,562,329.80
GS ELEVATION: 379.9
TOC ELEVATION: 383.49 ft

DEPTH W.L.:38.55
ELEVATION W.L.: 344.91
DATE W.L.:4/7/21
TIME W.L.:07:50

DEPTH (ft)	ELEVATION (ft)	DESCRIPTION	USCS	ELEV. / DEPTH (ft)	SAMPLE NO.	REC
0		0.00 - 6.00 SM, silty sand, brown to reddish brown, micaceous, highly weathered, non-cohesive, loose, moist	SM	373.9	1	6.00 / 6.00
5	375	6.00 - 8.00 No Recovery, washout		6.00 371.9		
		8.00 - 16.00 SM, silty sand, brown, grey, reddish brown, micaceous, highly weathered, non-cohesive, loose, moist	SM	8.00 363.9	2	8.00 / 10.00
10	370					
15	365	16.00 - 26.00 SM, silty sand, brown, grey, and greyish brown, micaceous, non-cohesive, loose, moist. Thin 0.3' lens of sandy clay at bottom of run. Some broken biotite gneiss fragments (crumbly, loose) at 24'-25'	SM	16.00 353.9	3	9.00 / 10.00
20	360					
25	355	26.00 - 31.00 SM, silty sand, brown, grey, and greyish brown, micaceous, non-cohesive, loose, wet.	SM	26.00 348.9	4	9.00 / 10.00
30	350	31.00 - 36.00 SC-SM, sandy clay/clayey sand with interbedded sandy silt, reddish brown, cohesive, firm to stiff, w~PL to w<PL	SC-SM	31.00 343.9		
35	345	36.00 - 37.00 OL, organic soils, black, roots and plant material visible with sandy silt	OL SP-GP	36.00 342.9 37.00 341.9	5	10.00 / 10.00
40	340	37.00 - 38.00 SP-GP, poorly sorted sand and gravel, black and white, fragments of biotite gneiss, biotite, quartz, and plagioclase, non-cohesive 38.00 - 46.00 CH-SM, clay with silty sand, reddish brown, some organics, micaceous, cohesive, stiff to very stiff, w>PL	CH-SM	38.00 333.9		
45	335	46.00 - 52.00 SC-SM, sandy clay/clayey sand and silty sand, saprolite, micaceous, biotite, plagioclase, and quartz, highly weathered, cohesive, soft to firm, w~PL to w>PL	SC-SM	46.00	6	10.00 / 10.00
50	330	Log continued on next page				

PIEZOMETER DIAGRAM and NOTES

PIEZOMETER CONSTRUCTION DETAILS

WELL CASING
Interval: 0'-55.6'
Material: Schedule 40 PVC
Diameter: 2"
Joint Type: Threaded

WELL SCREEN
Interval: 55.6'-65.6'
Material: 0.010" Slotted Schedule 40 PVC U-pack Screen
Diameter: 2"
Slot Size: 0.010"
End Cap: 4"

FILTER PACK
Interval: 53'-66'
Type: #1 sand
Quantity: 4.5x 14L bags

FILTER PACK SEAL
Interval: 49.3'-53'
Type: 3/8" Pel-Plug Benotite Pellets
Quantity: 1 x 5 gal bucket

ANNULUS SEAL
Interval: 0'-49.3'
Type: Aquaguard bentonite grout
Quantity: 4 bags + 70 gal H2O

WELL COMPLETION
Pad: 4'x4'
Protective Casing: Aluminum

DRILLING METHODS
Soil Drill: 4-inch Sonic
Rock Drill: NA
Sample Type: Rotosonic

NOTES
Angled piezometer, drilled at 13 degrees from vertical

LOG SCALE: 1 in = 6.5 ft
DRILLING COMPANY: Cascade Environmental
DRILLER: Donald Myles

INSPECTOR: Brian Steele, PG
CHECKED BY: Rachel P. Kirkman, PG
DATE: 5/14/21

GOLDER
MEMBER OF WSP

RECORD OF BOREHOLE PZ-59I

PROJECT: SCS Plant Branch
PROJECT NUMBER: 166625421
DRILLED DEPTH: 66.00 ft
LOCATION: Milledgeville, GA

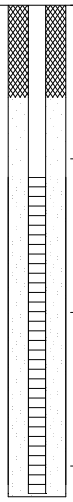
DRILL RIG: TSI 150T Truck-Mounted
DATE STARTED: 3/30/21
DATE COMPLETED: 3/31/21

NORTHING: 1,161,654.90
EASTING: 2,562,329.80
GS ELEVATION: 379.9
TOC ELEVATION: 383.49 ft

DEPTH W.L.:38.55
ELEVATION W.L.: 344.91
DATE W.L.:4/7/21
TIME W.L.:07:50

DEPTH (ft)	ELEVATION (ft)	DESCRIPTION	USCS	GRAPHIC LOG	ELEV. / DEPTH (ft)	SAMPLE NO.	PHOTO	REC
50			SC-SM		327.9			
		52.00 - 66.00 Transitionally weathered rock (TWR) SP-GW, sandy gravel with some silty sand, coarse sand, white plagioclase lens at 51', non-cohesive, loose, moist			52.00	6		10.00 10.00
55	325		TWR					
60	320					7		10.00 10.00
65	315				313.9			
		Boring completed at 66.00 ft						
70	310							
75	305							
80	300							
85	295							
90	290							
95	285							
100	280							

PIEZOMETER DIAGRAM and NOTES



PIEZOMETER CONSTRUCTION DETAILS

WELL CASING
Interval: 0'-55.6'
Material: Schedule 40 PVC
Diameter: 2"
Joint Type: Threaded

WELL SCREEN
Interval: 55.6'-65.6'
Material: 0.010" Slotted Schedule 40 PVC U-pack Screen
Diameter: 2"
Slot Size: 0.010"
End Cap: 4"

FILTER PACK
Interval: 53'-66'
Type: #1 sand
Quantity: 4.5x 14L bags

FILTER PACK SEAL
Interval: 49.3'-53'
Type: 3/8" Pel-Plug Benotite Pellets
Quantity: 1 x 5 gal bucket

ANNULUS SEAL
Interval: 0'-49.3'
Type: Aquaguard bentonite grout
Quantity: 4 bags + 70 gal H2O

WELL COMPLETION
Pad: 4'x4'
Protective Casing: Aluminum

DRILLING METHODS
Soil Drill: 4-inch Sonic
Rock Drill: NA
Sample Type: Rotosonic

NOTES
Angled piezometer, drilled at 13 degrees from vertical

LOG SCALE: 1 in = 6.5 ft
DRILLING COMPANY: Cascade Environmental
DRILLER: Donald Myles

INSPECTOR: Brian Steele, PG
CHECKED BY: Rachel P. Kirkman, PG
DATE: 5/14/21

GOLDER
MEMBER OF WSP

BOREHOLE RECORD PLANT BRANCH PIEZO MARCH 2021.GPJ PIEDMONT.GDT 5/21/21

RECORD OF BOREHOLE PZ-60I

SHEET 1 of 2

PROJECT: SCS Plant Branch
PROJECT NUMBER: 166625421
DRILLED DEPTH: 65.50 ft
LOCATION: Milledgeville, GA

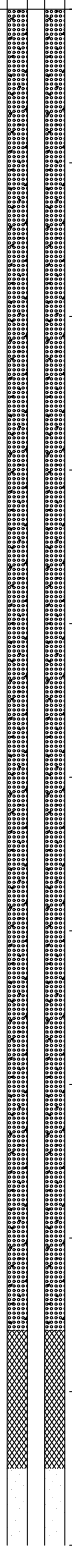
DRILL RIG: TSI 150T Truck-Mounted
DATE STARTED: 3/28/21
DATE COMPLETED: 3/29/21

NORTHING: 1,161,588.00
EASTING: 2,562,330.60
GS ELEVATION: 379.5
TOC ELEVATION: 382.61 ft

DEPTH W.L.:37.52
ELEVATION W.L.: 345.09
DATE W.L.:4/7/21
TIME W.L.:14:32

DEPTH (ft)	ELEVATION (ft)	DESCRIPTION	USCS	GRAPHIC LOG	ELEV. / DEPTH (ft)	SAMPLE NO.	PHOTO	REC
0		0.00 - 6.50 HYDROVAC HOLE, [BACKFILL], SM, silty sand, brown, micaceous, highly weathered , non-cohesive, loose	SM		373	1		6.50 6.50
5	375	6.50 - 9.80 No recovery, washout			6.50 369.7			
10	370	9.80 - 16.50 SM, silty sand with some coarse gravel, brown, micaceous, gravels of biotite gneiss, highly weathered, non-cohesive, loose	SM		9.80 363	2		6.70 10.00
15	365	16.50 - 22.00 No recovery, washout			16.50 357.5	3		4.50 10.00
20	360	22.00 - 22.80 SM, silty sand, brown, micaceous, cohesive, soft, w<PL	SM		356.7			
		22.80 - 23.50 SC, clayey sand/sandy clay lens, reddish brown, micaceous, cohesive, firm, w<PL	SC		356 23.50			
25	355	23.50 - 25.40 SM, silty sand, brown, micaceous, non-cohesive, loose	SM		354.1 25.00			
		25.00 - 30.00 SM, silty sand, brown, micaceous, non-cohesive, loose	SM					
30	350	25.40 - 25.00 SM-GW, silty sand with gravel, brown, micaceous, cobble-sized biotite gneiss riprap layer, non-cohesive, loose	SM-GW		349.5	4		10.00 10.00
		30.00 - 34.50 SM, silty sand with some clay, brown to reddish brown, cohesive, firm to stiff, w<PL	SM		30.00 345			
35	345	34.50 - 36.50 SM, silty sand. grey, micaceous, non-cohesive, loose	SM		34.50 343			
40	340	36.50 - 40.00 No recovery, washout			36.50 339.5	5		6.50 10.00
		40.00 - 40.50 SM, silty sand. grey, micaceous, non-cohesive, loose; distinct layer of organic soil with visible roots and plant material at 40.5, 1/4" thick	SM		40.50			
45	335	40.50 - 44.50 CH, clay with some organics and some silt, reddish brown, micaceous, cohesive, firm, w>PL	CH		335			
		44.50 - 46.50 Transitionally weathered rock (TWR) SW-GW, coarse sand and coarse grave, brown to tan, non-cohesive, loose, biotite gneis	TWR		44.50 333			
50	330	46.50 - 47.80 No recovery, washout			46.50 331.7	6		6.70 10.00
		47.80 - 50.00 CH, clay with some organics and some silt, reddish brown, micaceous, cohesive, firm, w>PL	CH		47.80 329.5			
		Log continued on next page						

PIEZOMETER DIAGRAM and NOTES



PIEZOMETER CONSTRUCTION DETAILS

WELL CASING
Interval: 0'-50.5'
Material: Schedule 40 PVC
Diameter: 2"
Joint Type: Threaded

WELL SCREEN
Interval: 50.5'-60.5'
Material: 0.010" Slotted Schedule 40 PVC U-pack Screen
Diameter: 2"
Slot Size: 0.010"
End Cap: 3"

FILTER PACK
Interval: 47.5'-65.5'
Type: #1 sand
Quantity: 5 x 14L bags

FILTER PACK SEAL
Interval: 43'-47.5
Type: 3/8" Pel-Plug Benotite Pellets
Quantity: 1 x 5 gal bucket

ANNULUS SEAL
Interval: 0'-43'
Type: Aquaguard bentonite grout
Quantity: 5 bags + 83 gal H2O

WELL COMPLETION
Pad: 4'x4'
Protective Casing: Aluminum

DRILLING METHODS
Soil Drill: 4-inch Sonic
Rock Drill: NA
Sample Type: Rotosonic

LOG SCALE: 1 in = 6.5 ft
DRILLING COMPANY: Cascade Environmental
DRILLER: Donald Myles

INSPECTOR: Brian Steele, PG
CHECKED BY: Rachel P. Kirkman, PG
DATE: 5/14/21

GOLDER
MEMBER OF WSP

BOREHOLE RECORD PLANT BRANCH PIEZO MARCH 2021.GPJ PIEDMONT.GDT 5/21/21

RECORD OF BOREHOLE PZ-60I

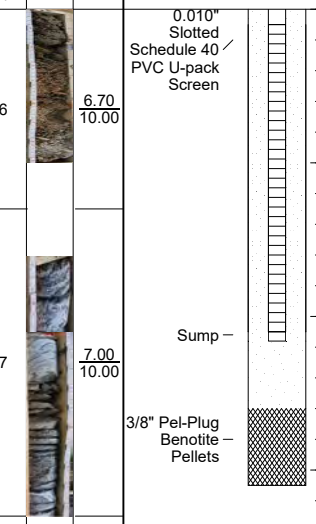
PROJECT: SCS Plant Branch
PROJECT NUMBER: 166625421
DRILLED DEPTH: 65.50 ft
LOCATION: Milledgeville, GA

DRILL RIG: TSI 150T Truck-Mounted
DATE STARTED: 3/28/21
DATE COMPLETED: 3/29/21

NORTHING: 1,161,588.00
EASTING: 2,562,330.60
GS ELEVATION: 379.5
TOC ELEVATION: 382.61 ft

DEPTH W.L.:37.52
ELEVATION W.L.: 345.09
DATE W.L.:4/7/21
TIME W.L.:14:32

DEPTH (ft)	ELEVATION (ft)	DESCRIPTION	USCS	GRAPHIC LOG	ELEV. / DEPTH (ft)	SAMPLE NO.	PHOTO	REC
50		50.00 - 50.50 No recovery, washout			50.50			
		50.50 - 54.50 CH, clay with some organics and some silt, reddish brown, micaceous, cohesive, firm, w>PL	CH			6		6.70 10.00
55	325	54.50 - 55.00 Transitionally weathered rock (TWR) coarse sand and cobbles of biotite gneiss, tan to grey, non-cohesive, loose	TWR		325 55.00			
		55.00 - 58.00 No recovery, washout			321.5			
		58.00 - 65.50 (BEDROCK) Biotite Gneiss, black and white banded with biotite, quartz and hornblende	BEDROCK		58.00	7		7.00 10.00
60	320							
65	315				314			
		Boring completed at 65.50 ft						
70	310							
75	305							
80	300							
85	295							
90	290							
95	285							
100	280							



WELL CASING
Interval: 0'-50.5'
Material: Schedule 40 PVC
Diameter: 2"
Joint Type: Threaded

WELL SCREEN
Interval: 50.5'-60.5'
Material: 0.010" Slotted Schedule 40 PVC U-pack Screen
Diameter: 2"
Slot Size: 0.010"
End Cap: 3"

FILTER PACK
Interval: 47.5'-65.5'
Type: #1 sand
Quantity: 5 x 14L bags

FILTER PACK SEAL
Interval: 43'-47.5
Type: 3/8" Pel-Plug Benotite Pellets
Quantity: 1 x 5 gal bucket

ANNULUS SEAL
Interval: 0'-43'
Type: Aquaguard bentonite grout
Quantity: 5 bags + 83 gal H2O

WELL COMPLETION
Pad: 4'x4'
Protective Casing: Aluminum

DRILLING METHODS
Soil Drill: 4-inch Sonic
Rock Drill: NA
Sample Type: Rotosonic

LOG SCALE: 1 in = 6.5 ft
DRILLING COMPANY: Cascade Environmental
DRILLER: Donald Myles

INSPECTOR: Brian Steele, PG
CHECKED BY: Rachel P. Kirkman, PG
DATE: 5/14/21

GOLDER
MEMBER OF WSP

RECORD OF BOREHOLE PZ-61I

PROJECT: SCS Plant Branch
PROJECT NUMBER: 166625421
DRILLED DEPTH: 75.00 ft
LOCATION: Milledgeville, GA

DRILL RIG: TSI 150T Truck-Mounted
DATE STARTED: 3/29/21
DATE COMPLETED: 3/30/21

NORTHING: 1,161,621.90
EASTING: 2,562,429.70
GS ELEVATION: 377.7
TOC ELEVATION: 380.64 ft

DEPTH W.L.:48.78
ELEVATION W.L.: 331.86
DATE W.L.:4/8/21
TIME W.L.:13:45

DEPTH (ft)	ELEVATION (ft)	DESCRIPTION	USCS	GRAPHIC LOG	ELEV. / DEPTH (ft)	SAMPLE NO.	PHOTO	REC
0		0.00 - 2.60 SM-SC, sily sand and sandy clay with trace gravel and trace organic matter, reddish brown, quartz, plagioclase, biotite in gravels. cohesive, firm to stiff, w~PL	SM-SC		375.1 / 2.60	1		5.00 / 5.00
5	375	2.60 - 5.00 SM, silty sand, reddish brown to dark brown, micaceous, non-cohesive, loose, dry	SM		372.7			
		5.00 - 6.00 No recovery			5.00 / 371.7	2		9.00 / 10.00
10	370	6.00 - 15.00 SM-SC, sandy clay with ~1ft interbedded layers of silty sand, brown, greyish brown, and reddish brown, micaceous, cohesive, soft to firm (stiff from 11'-12'), w~PL to w<PL	SM-SC		6.00			
15	365				362.7			
		15.00 - 25.00 SM, sandy silt. brown, greyish brown, and tan, micaceous, non-cohesive, loose, dry	SM		15.00	3		5.00 / 10.00
20	360							
25	355				352.7			
		25.00 - 35.00 SM, sandy silt/silty sand with some gravel, brown, greym and reddish brown, grey lens of crushed rock ~27'-30'- biotite gneiss; non-cohesive, loose, dry	SM		25.00	4		4.00 / 10.00
30	350							
35	345				342.7			
		35.00 - 45.00 SM, sandy silt/silty sand, brown, grey, and reddish brown, non-cohesive, loose, dry	SM		35.00	5		3.00 / 10.00
40	340							
45	335				332.7			
		45.00 - 54.00 SM-SC, sandy silt/silty clay, brown, reddish brown, and grey, non-cohesive, loose, moist	SM-SC		45.00	6		10.00 / 10.00
50	330							

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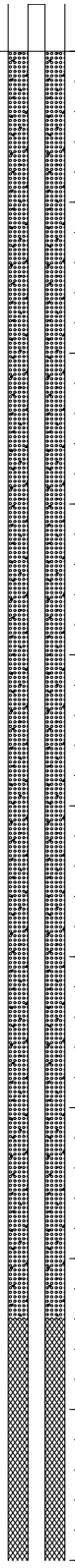
PIEZOMETER DIAGRAM and NOTES



PIEZOMETER CONSTRUCTION DETAILS

WELL CASING
Interval: 0'-65.7'
Material: Schedule 40 PVC
Diameter: 2"
Joint Type: Threaded

WELL SCREEN
Interval: 65.7'-75.7
Material: 0.010" Slotted Schedule 40 PVC U-pack Screen
Diameter: 2"
Slot Size: 0.010"
End Cap: 3"

FILTER PACK
Interval: 61'-76'
Type: #1 sand
Quantity: 6 x 14L bags

FILTER PACK SEAL
Interval: 42'-61'
Type: 3/8" Pel-Plug Benotite Pellets
Quantity: 1 x 5 gal bucket + 2 bags

ANNULUS SEAL
Interval: 0'-42'
Type: Aquaguard bentonite grout
Quantity: 4 bags + 70 gal H2O

WELL COMPLETION
Pad: 4'x4'
Protective Casing: Aluminum

DRILLING METHODS
Soil Drill: 4-inch Sonic
Rock Drill: NA
Sample Type: Rotosonic

NOTES
Angled piezometer, drilled at 32 degrees from vertical

LOG SCALE: 1 in = 6.5 ft
DRILLING COMPANY: Cascade Environmental
DRILLER: Donald Myles

INSPECTOR: Brian Steele, PG
CHECKED BY: Rachel P. Kirkman, PG
DATE: 5/14/21

GOLDER
MEMBER OF WSP

BOREHOLE RECORD PLANT BRANCH PIEZO MARCH 2021.GPJ PIEDMONT.GDT 5/21/21

RECORD OF BOREHOLE PZ-61I

PROJECT: SCS Plant Branch
PROJECT NUMBER: 166625421
DRILLED DEPTH: 75.00 ft
LOCATION: Milledgeville, GA

DRILL RIG: TSI 150T Truck-Mounted
DATE STARTED: 3/29/21
DATE COMPLETED: 3/30/21

NORTHING: 1,161,621.90
EASTING: 2,562,429.70
GS ELEVATION: 377.7
TOC ELEVATION: 380.64 ft

DEPTH W.L.:48.78
ELEVATION W.L.: 331.86
DATE W.L.:4/8/21
TIME W.L.:13:45

DEPTH (ft)	ELEVATION (ft)	DESCRIPTION	USCS	GRAPHIC LOG	ELEV. / DEPTH (ft)	SAMPLE NO.	PHOTO	REC
50		45.00 - 54.00 SM-SC, sandy silt/silty clay, brown, reddish brown, and grey, non-cohesive, loose, moist *(Continued)*	SM-SC		323.7	6		10.00 10.00
55	325	54.00 - 58.00 SM, sandy silt/silty sand with some organic matter, grey, micaceous, weathered rock material, non-cohesive, loose	SM		54.00 319.7			
60	320	58.00 - 65.00 CL, clay with some sand and trace organic matter, brown, reddish brown, and grey; cohesive, very stiff, w>PL	CL		58.00 312.7	7		10.00 10.00
65	315	65.00 - 76.00 Transitionally weathered rock (TWR) SP, sand with silt and gravel, tan, grey, brown, non-cohesive, loose, larger rock fragments of weathered gneiss containing biotite, quartz, plagioclase toward end of run	TWR		65.00	8		10.00 10.00
70	310							
75	305	Boring completed at 75.00 ft			301.7 76.00			
80	300							
85	295							
90	290							
95	285							
100	280							

PIEZOMETER DIAGRAM and NOTES

PIEZOMETER CONSTRUCTION DETAILS

WELL CASING
Interval: 0'-65.7'
Material: Schedule 40 PVC
Diameter: 2"
Joint Type: Threaded

WELL SCREEN
Interval: 65.7'-75.7
Material: 0.010" Slotted Schedule 40 PVC U-pack Screen
Diameter: 2"
Slot Size: 0.010"
End Cap: 3"

FILTER PACK
Interval: 61'-76'
Type: #1 sand
Quantity: 6 x 14L bags

FILTER PACK SEAL
Interval: 42'-61'
Type: 3/8" Pel-Plug Benotite Pellets
Quantity: 1 x 5 gal bucket + 2 bags

ANNULUS SEAL
Interval: 0'-42'
Type: Aquaguard bentonite grout
Quantity: 4 bags + 70 gal H2O

WELL COMPLETION
Pad: 4'x4'
Protective Casing: Aluminum

DRILLING METHODS
Soil Drill: 4-inch Sonic
Rock Drill: NA
Sample Type: Rotosonic

NOTES
Angled piezometer, drilled at 32 degrees from vertical

LOG SCALE: 1 in = 6.5 ft
DRILLING COMPANY: Cascade Environmental
DRILLER: Donald Myles

INSPECTOR: Brian Steele, PG
CHECKED BY: Rachel P. Kirkman, PG
DATE: 5/14/21

GOLDER
MEMBER OF WSP

BOREHOLE RECORD PLANT BRANCH PIEZO MARCH 2021.GPJ PIEDMONT.GDT 5/21/21

RECORD OF BOREHOLE PZ-62I

SHEET 1 of 2

PROJECT: SCS Plant Branch
PROJECT NUMBER: 166625421
DRILLED DEPTH: 70.00 ft
LOCATION: Milledgeville, GA

DRILL RIG: TSI 150
DATE STARTED: 1/5/22
DATE COMPLETED: 1/6/22

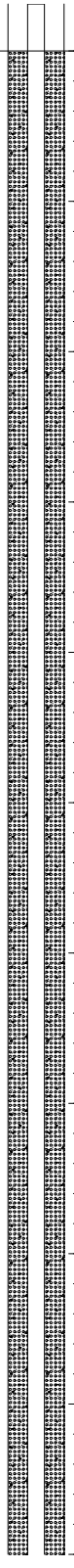
NORTHING: 1,161,478.9
EASTING: 2,562,336.0
GS ELEVATION: 378.1
TOC ELEVATION: 380.95 ft

DEPTH W.L.:37.79
ELEVATION W.L.: 343.16
DATE W.L.:1/6/22
TIME W.L.:15:58

DEPTH (ft)	ELEVATION (ft)	DESCRIPTION	USCS	GRAPHIC LOG	ELEV. / DEPTH (ft)	SAMPLE NO.	PHOTO	REC
0	378	0.00 - 6.50 MLS, sandy SILT, moist, brown-red, micaceous	MLS		371.6	1		3.50 6.50
		6.50 - 11.00 MLS, sandy SILT with trace organics, moist, brown-red, micaceous	MLS		6.50 367.1	2		10.00 10.00
		11.00 - 17.50 SM, silty SAND, fine-medium grained, moist, reddish gray-brown, micaceous	SM		11.00 360.6			
		17.50 - 21.50 CL-SC, sandy CLAY and clayey SAND interbedded, fine-medium grained	CL-SC		17.50 356.6	3		7.00 10.00
		21.50 - 26.50 SP, SAND, medium-fine grained, loose, dry, gray-brown	SP		21.50 351.6			
		26.50 - 30.00 SM, silty SAND with some fine gravel, wet, brown-gray	SM		26.50 348.1	4		5.50 10.00
		30.00 - 36.50 CL-SC, sandy CLAY and clayey SAND interbedded with some poorly sorted gravels, W > PL	CL-SC		30.00 341.6			
		36.50 - 46.50 CL-ML, sandy silty CLAY, firm to soft, orange-red, micaceous	CL-ML		36.50 331.6	5		10.00 10.00
		46.50 - 56.50 CL, sandy CLAY, red-orange to gray, moist, soft, micaceous, W>PL	CL		46.50	6		10.00 10.00

Log continued on next page

PZ-62I MONITORING WELL DIAGRAM and NOTES



WELL CONSTRUCTION DETAILS

WELL CASING
Interval: 0'-60'
Material: Schedule 40 PVC
Diameter: 2"
Joint Type: Threaded

WELL SCREEN
Interval: 60'-70'
Material: 0.010" Slotted
Diameter: 2"
Slot Size: 0.010"
End Cap: 3"

FILTER PACK
Interval: 57.9'-70'
Type: U-Pack GP-1 Sand
Quantity: 4.5 x 14L bags

FILTER PACK SEAL
Interval: 55'-57.9'
Type: 3/8" PEL-Plug Bentonite Pellets
Quantity: 0.5 x 5 gal bucket

ANNULUS SEAL
Interval: 0'-55'
Type: Aquaguard bentonite grout
Quantity: 4 bags + 80 gal H2O

WELL COMPLETION
Pad: 4' x 4'
Protective Casing: Aluminum

DRILLING METHODS
Soil Drill: 4-inch Sonic
Rock Drill: 4-inch Sonic
Sample Type: Rotosonic

LOG SCALE: 1 in = 6.5 ft
DRILLING COMPANY: Cascade Environmental
DRILLER: David Wilcox

GA INSPECTOR: Karim Minkara, PG
CHECKED BY: Brian Steele, PG
DATE: 2/11/22

GOLDER

BOREHOLE RECORD PLANT BRANCH PZ-57I-PZ-63I.GPJ PIEDMONT.GDT 2/18/22

RECORD OF BOREHOLE PZ-62I

PROJECT: SCS Plant Branch
PROJECT NUMBER: 166625421
DRILLED DEPTH: 70.00 ft
LOCATION: Milledgeville, GA

DRILL RIG: TSI 150
DATE STARTED: 1/5/22
DATE COMPLETED: 1/6/22

NORTHING: 1,161,478.9
EASTING: 2,562,336.0
GS ELEVATION: 378.1
TOC ELEVATION: 380.95 ft

DEPTH W.L.:37.79
ELEVATION W.L.: 343.16
DATE W.L.:1/6/22
TIME W.L.:15:58

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE: DESCRIPTION	USCS	GRAPHIC LOG	ELEV. / DEPTH (ft)	SAMPLES: SAMPLE NO.	PHOTO	REC	PZ-62I MONITORING WELL DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
50		46.50 - 56.50 CL, sandy CLAY, red-orange to gray, moist, soft, micaceous, W>PL *(Continued)*								**WELL CASING** Interval: 0'-60' Material: Schedule 40 PVC Diameter: 2" Joint Type: Threaded
	325		CL			6		10.00 10.00		
55					321.6				3/8" Pel-Plug Benotite Pellets	**WELL SCREEN** Interval: 60'-70' Material: 0.010" Slotted Diameter: 2" Slot Size: 0.010" End Cap: 3"
		56.50 - 60.00 CL, silty CLAY with trace sand, gray, wet, very soft to soft, W>PL			56.50					
	320		CL						GP-1 Filter Sand 0.010" Slotted Schedule 40 PVC U-pack Screen	**FILTER PACK** Interval: 57.9'-70' Type: U-Pack GP-1 Sand Quantity: 4.5 x 14L bags
60					318.1					
		60.00 - 65.00 Transitionally weathered rock (TWR), SAND with some gravel, brown-tan			60.00	7		10.00 9.00		**FILTER PACK SEAL** Interval: 55'-57.9' Type: 3/8" PEL-Plug Bentonite Pellets Quantity: 0.5 x 5 gal bucket
	315		TWR							
65					313.1					**ANNULUS SEAL** Interval: 0'-55' Type: Aquaguard bentonite grout Quantity: 4 bags + 80 gal H2O
		65.00 - 65.50 TWR, poorly sorted sandy GRAVEL	TWR		65.50					
		65.50 - 70.00 (BEDROCK) Biotite Gneiss, slightly weathered to fresh, with biotite, plagioclase, and hornblende	Bedrock			8		3.50 4.50		**WELL COMPLETION** Pad: 4' x 4' Protective Casing: Aluminum
	310									
70					308.1				Sump	**DRILLING METHODS** Soil Drill: 4-inch Sonic Rock Drill: 4-inch Sonic Sample Type: Rotosonic
		Boring completed at 70.00 ft								
	305									
75										
	300									
80										
	295									
85										
	290									
90										
	285									
95										
	280									
100										

LOG SCALE: 1 in = 6.5 ft
DRILLING COMPANY: Cascade Environmental
DRILLER: David Wilcox

GA INSPECTOR: Karim Minkara, PG
CHECKED BY: Brian Steele, PG
DATE: 2/11/22

GOLDER

RECORD OF BOREHOLE PZ-63I

SHEET 1 of 2

PROJECT: SCS Plant Branch
PROJECT NUMBER: 166625421
DRILLED DEPTH: 56.50 ft
LOCATION: Milledgeville, GA

DRILL RIG: TSI 150
DATE STARTED: 1/5/22
DATE COMPLETED: 1/5/22

NORTHING: 1,161,371.2
EASTING: 2,562,233.1
GS ELEVATION: 378.6
TOC ELEVATION: 381.31 ft

DEPTH W.L.:36.64
ELEVATION W.L.: 344.67
DATE W.L.:1/5/22
TIME W.L.:14:10

DEPTH (ft)	ELEVATION (ft)	DESCRIPTION	USCS	ELEV. / DEPTH (ft)	SAMPLE NO.	REC
0	378.6	0.00 - 13.50 SM, silty SAND with trace fine-coarse gravel, dry-moist, brown, micaceous	SM		1	6.50 / 6.50
					2	10.00 / 10.00
				365.1		
		13.50 - 24.00 CL, sandy CLAY, red-brown, moist, W>PL, soft to firm, micaceous	CL	13.50	3	9.00 / 10.00
				354.6		
		24.00 - 26.50 SC, clayey SAND, fine-medium grained, moist, loose to compact, red-brown, micaceous	SC	24.00		
				352.1		
		26.50 - 34.00 SM, silty SAND, fine-medium grained, moist, loose, gray-red-brown, micaceous, 6" red-brown sandy clay lens	SM	26.50	4	10.00 / 10.00
				344.6		
		34.00 - 36.50 SM, silty SAND, fine-medium grained, gray, loose	SM	34.00		
				342.1		
		36.50 - 41.00 CL, red CLAY, moist to saturated, stiff, W>PL, micaceous	CL	36.50		
				337.6		
		41.00 - 44.00 SM, silty SAND, brown-tan-red, moist	SM	41.00	5	9.50 / 10.00
				334.6		
		44.00 - 46.50 SM, silty SAND with poorly sorted gravel	SM	44.00		
				332.1		
		46.50 - 49.00 CL, gravelly CLAY, moist-saturated, gray, very soft to soft	CL	46.50	6	10.00 / 10.00
				329.6		
		49.00 - 49.50	TWR			
				49.50		

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PZ-63I MONITORING WELL DIAGRAM and NOTES

Bentonite Grout

3/8" Pel-Plug Benotite Pellets

GP-1 Filter Sand

0.010" Slotted Schedule 40 PVC U-pack Screen

WELL CONSTRUCTION DETAILS

WELL CASING
Interval: 0'-46.5'
Material: Schedule 40 PVC
Diameter: 2"
Joint Type: Threaded

WELL SCREEN
Interval: 46.5'-56.5'
Material: 0.010" Slotted
Diameter: 2"
Slot Size: 0.010"
End Cap: 3"

FILTER PACK
Interval: 43.8'-56.5'
Type: U-Pack GP-1 Sand
Quantity: 3.5 x 14L bags

FILTER PACK SEAL
Interval: 41.4'-43.8'
Type: 3/8" PEL-Plug Bentonite Pellets
Quantity: 0.5 x 5 gal bucket

ANNULUS SEAL
Interval: 0'-41.4'
Type: Aquaguard bentonite grout
Quantity: 2 bags + 40 gal H2O

WELL COMPLETION
Pad: 4' x 4'
Protective Casing: Aluminum

DRILLING METHODS
Soil Drill: 4-inch Sonic
Rock Drill: 4-inch Sonic
Sample Type: Rotosonic

LOG SCALE: 1 in = 6.5 ft
DRILLING COMPANY: Cascade Environmental
DRILLER: David Wilcox

GA INSPECTOR: Karim Minkara, PG
CHECKED BY: Brian Steele, PG
DATE: 2/11/22

GOLDER

BOREHOLE RECORD PLANT BRANCH PZ-571-PZ-63I.GPJ PIEDMONT.GDT 2/18/22

RECORD OF BOREHOLE PZ-63I

SHEET 2 of 2

PROJECT: SCS Plant Branch
PROJECT NUMBER: 166625421
DRILLED DEPTH: 56.50 ft
LOCATION: Milledgeville, GA

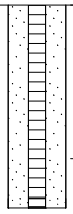
DRILL RIG: TSI 150
DATE STARTED: 1/5/22
DATE COMPLETED: 1/5/22

NORTHING: 1,161,371.2
EASTING: 2,562,233.1
GS ELEVATION: 378.6
TOC ELEVATION: 381.31 ft

DEPTH W.L.:36.64
ELEVATION W.L.: 344.67
DATE W.L.:1/5/22
TIME W.L.:14:10

DEPTH (ft)	ELEVATION (ft)	DESCRIPTION	USCS	GRAPHIC LOG	ELEV. / DEPTH (ft)	SAMPLE NO.	PHOTO	REC
50		Transitionally weathered rock (TWR), sandy GRAVEL, very loose sand with poorly sorted gravel, weathered biotite gneiss 49.50 - 56.50 (BEDROCK) Biotite Gneiss, fresh to slightly weathered with decreasing weathering with depth, coarse-fine grained, strong *(Continued)*	Bedrock			6		10.00 / 10.00
55	325				322.1			
		Boring completed at 56.50 ft						
60	320							
65	315							
70	310							
75	305							
80	300							
85	295							
90	290							
95	285							
100	280							

PZ-63I MONITORING WELL DIAGRAM and NOTES



WELL CONSTRUCTION DETAILS

WELL CASING
Interval: 0'-46.5'
Material: Schedule 40 PVC
Diameter: 2"
Joint Type: Threaded

WELL SCREEN
Interval: 46.5'-56.5'
Material: 0.010" Slotted
Diameter: 2"
Slot Size: 0.010"
End Cap: 3"

FILTER PACK
Interval: 43.8'-56.5'
Type: U-Pack GP-1 Sand
Quantity: 3.5 x 14L bags

FILTER PACK SEAL
Interval: 41.4'-43.8'
Type: 3/8" PEL-Plug Bentonite Pellets
Quantity: 0.5 x 5 gal bucket

ANNULUS SEAL
Interval: 0'-41.4'
Type: Aquaguard bentonite grout
Quantity: 2 bags + 40 gal H2O

WELL COMPLETION
Pad: 4' x 4'
Protective Casing: Aluminum

DRILLING METHODS
Soil Drill: 4-inch Sonic
Rock Drill: 4-inch Sonic
Sample Type: Rotosonic

LOG SCALE: 1 in = 6.5 ft
DRILLING COMPANY: Cascade Environmental
DRILLER: David Wilcox

GA INSPECTOR: Karim Minkara, PG
CHECKED BY: Brian Steele, PG
DATE: 2/18/22

GOLDER

BOREHOLE RECORD PLANT BRANCH PZ-571-PZ-63I.GPJ PIEDMONT.GDT 2/18/22

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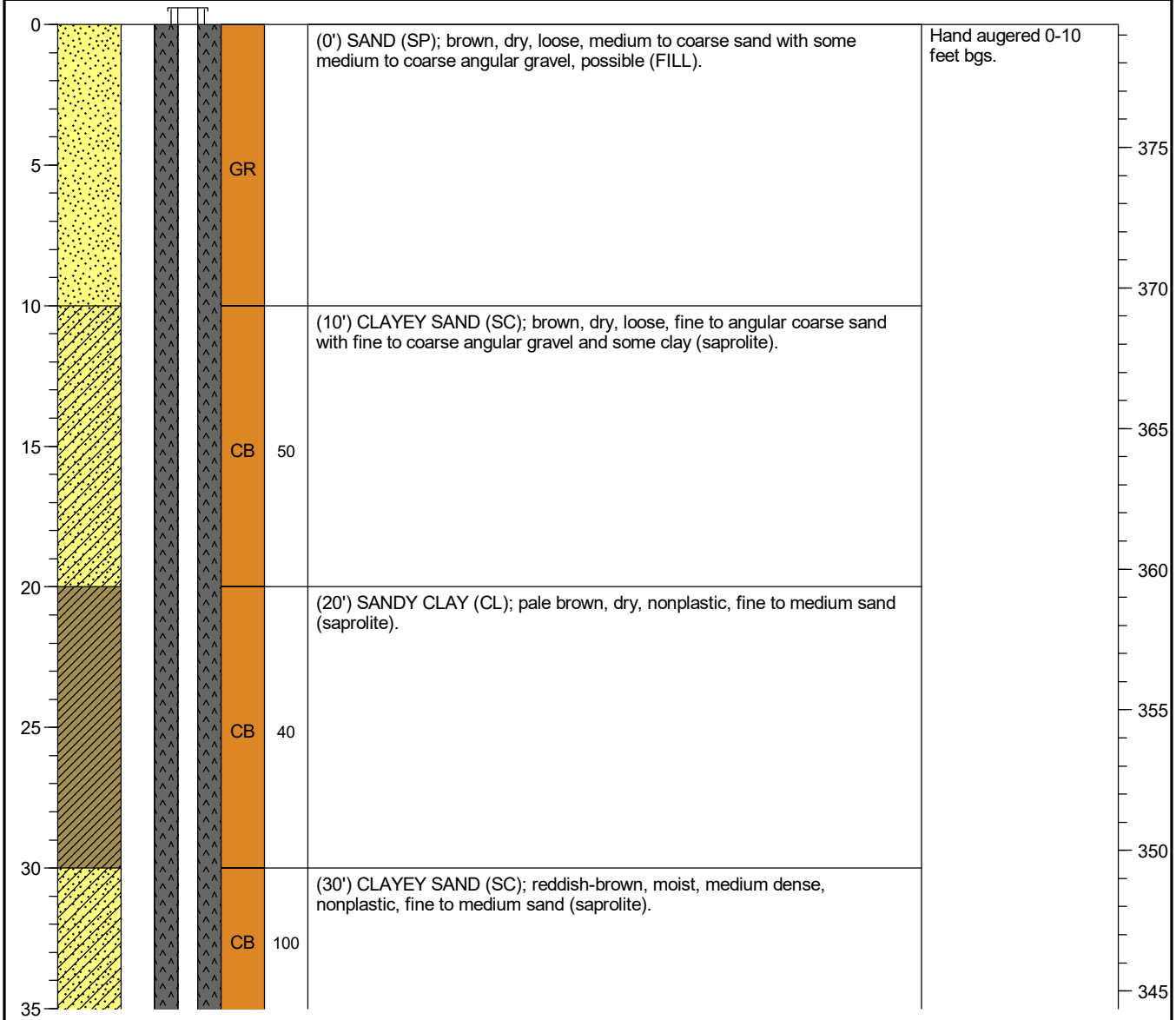
Client: Southern Company Services
Project: Plant Branch Well Install
Address: 1100 Milledgeville Rd, Milledgeville, GA

WELL LOG
Well No. PZ-64I
Page: 1 of 2

Drilling Start Date:	**09/09/2022**	Boring Depth (ft):	**70**	Well Depth (ft TOC):	**71.57**
Drilling End Date:	**09/10/2022**	Boring Diameter (in):	**6**	Well Diameter (in):	**2**
Drilling Company:	**Cascade Drilling**	Sampling Method(s):	**Core Barrel**	Screen Slot (in):	**0.010**
Drilling Method:	**Sonic 4x6**	DTW Post-Installation (ft):	**--**	Riser Material:	**Sch 40 PVC**
Drilling Equipment:	**C-200**	Ground Surface Elevation:	**379.37 NAV88**	Screen Material:	**Sch 40 PVC Pre-Pack**
Driller:	**V. Scott**	Top of Casing Elevation:	**381.94 NAV88**	Seal Material(s):	**Grout, Bentonite**
Logged By:	**C. Cain**	North, East (Y,X):	**1161787.72, 2562404.29**	Filter Pack:	**20/40 Sand**



NOTES: Boring cleared with hand auger from 0-10 feet bgs. Well (+2.57 feet stickup) completed with aboveground protective casing set in concrete. Well depth measured from the top of casing (TOC).

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Client: Southern Company Services
Project: Plant Branch Well Install
Address: 1100 Milledgeville Rd, Milledgeville, GA

WELL LOG
Well No. PZ-64I
Page: 2 of 2

Drilling Start Date:	**09/09/2022**	Boring Depth (ft):	**70**	Well Depth (ft TOC):	**71.57**
Drilling End Date:	**09/10/2022**	Boring Diameter (in):	**6**	Well Diameter (in):	**2**
Drilling Company:	**Cascade Drilling**	Sampling Method(s):	**Core Barrel**	Screen Slot (in):	**0.010**
Drilling Method:	**Sonic 4x6**	DTW Post-Installation (ft):	**--**	Riser Material:	**Sch 40 PVC**
Drilling Equipment:	**C-200**	Ground Surface Elevation:	**379.37 NAV88**	Screen Material:	**Sch 40 PVC Pre-Pack**
Driller:	**V. Scott**	Top of Casing Elevation:	**381.94 NAV88**	Seal Material(s):	**Grout, Bentonite**
Logged By:	**C. Cain**	North, East (Y,X):	**1161787.72, 2562404.29**	Filter Pack:	**20/40 Sand**

DEPTH (ft)	Sample Type	Recovery (%)	SOIL/ROCK VISUAL DESCRIPTION	REMARKS	ELEVATION (ft NAV88)
35					340
40	CB	100	(36') CLAY (CL); dark reddish-brown, moist, very stiff, medium plasticity, trace fine to medium sand (saprolite). (38') Dark gray very stiff clay lens with trace organics, more organic material in dark gray lens.		335
45	CB	50	(40') CLAYEY SAND (SC); reddish-brown, wet, medium dense, medium plasticity, fine to medium sand and micaceous (saprolite). (44') PARTIALLY WEATHERED ROCK (PWR); wet, nonplastic, medium to coarse sand with some fine sand, relict rock structure, highly weathered.		330
50	CB	100	(50') SAND (SP); yellowish-brown, wet, nonplastic, fine to coarse sand with some clay and micaceous (saprolite). (53') PWR; pale yellow brown, wet, nonplastic, medium to coarse sand, few angular fine gravel, relict rock structure, transitionally weathered.		325
55					320
60	CB	100	(60') PWR; pale yellowish brown and gray, wet, nonplastic, medium to coarse sand and some fine sand, highly weathered.	**Filter Pack:** Five bags 20/40 sand **Top Seal:** One five gallon bucket of coated bentonite pellets	315
65					310
70			(68') Zone of highly weathered rock. (70') Boring terminated.		

NOTES: Boring cleared with hand auger from 0-10 feet bgs. Well (+2.57 feet stickup) completed with aboveground protective casing set in concrete. Well depth measured from the top of casing (TOC).

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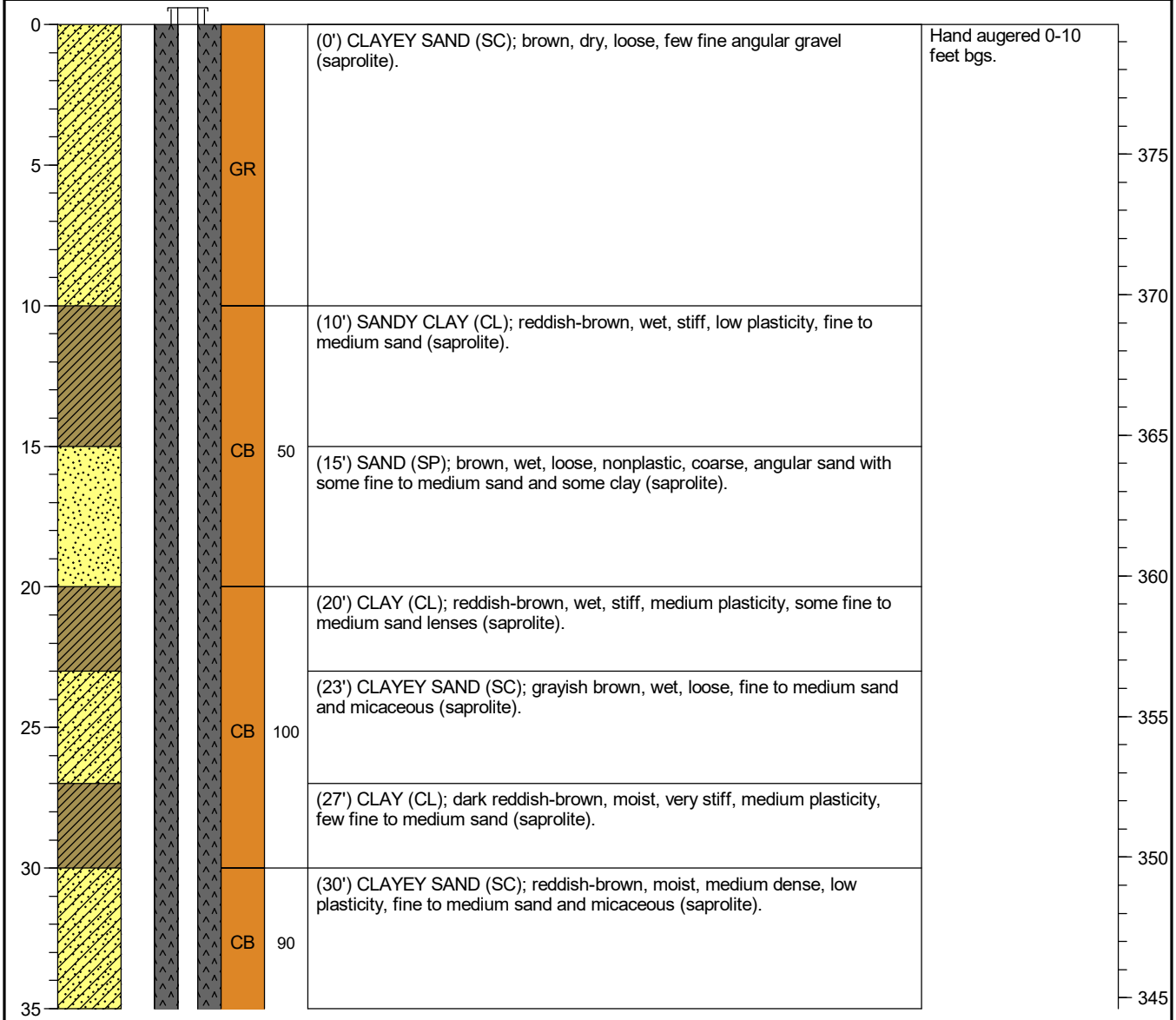
Client: Southern Company Services
Project: Plant Branch Well Install
Address: 1100 Milledgeville Rd, Milledgeville, GA

WELL LOG
Well No. PZ-65I
Page: 1 of 2

Drilling Start Date:	09/09/2022	Boring Depth (ft):	70	Well Depth (ft TOC):	72.27
Drilling End Date:	09/09/2022	Boring Diameter (in):	6	Well Diameter (in):	2
Drilling Company:	Cascade Drilling	Sampling Method(s):	Core Barrel	Screen Slot (in):	0.010
Drilling Method:	Sonic 4x6	DTW Post-Installation (ft):	--	Riser Material:	Sch 40 PVC
Drilling Equipment:	C-200	Ground Surface Elevation:	379.61 NAV88	Screen Material:	Sch 40 PVC Pre-Pack
Driller:	V. Scott	Top of Casing Elevation:	382.06 NAV88	Seal Material(s):	Grout, Bentonite
Logged By:	C. Cain	North, East (Y,X):	1161692.72, 2562240.57	Filter Pack:	20/40 Sand



NOTES: Boring cleared with hand auger from 0-10 feet bgs. Well (+2.45 feet stickup) completed with aboveground protective casing set in concrete. Well depth measured from the top of casing (TOC).

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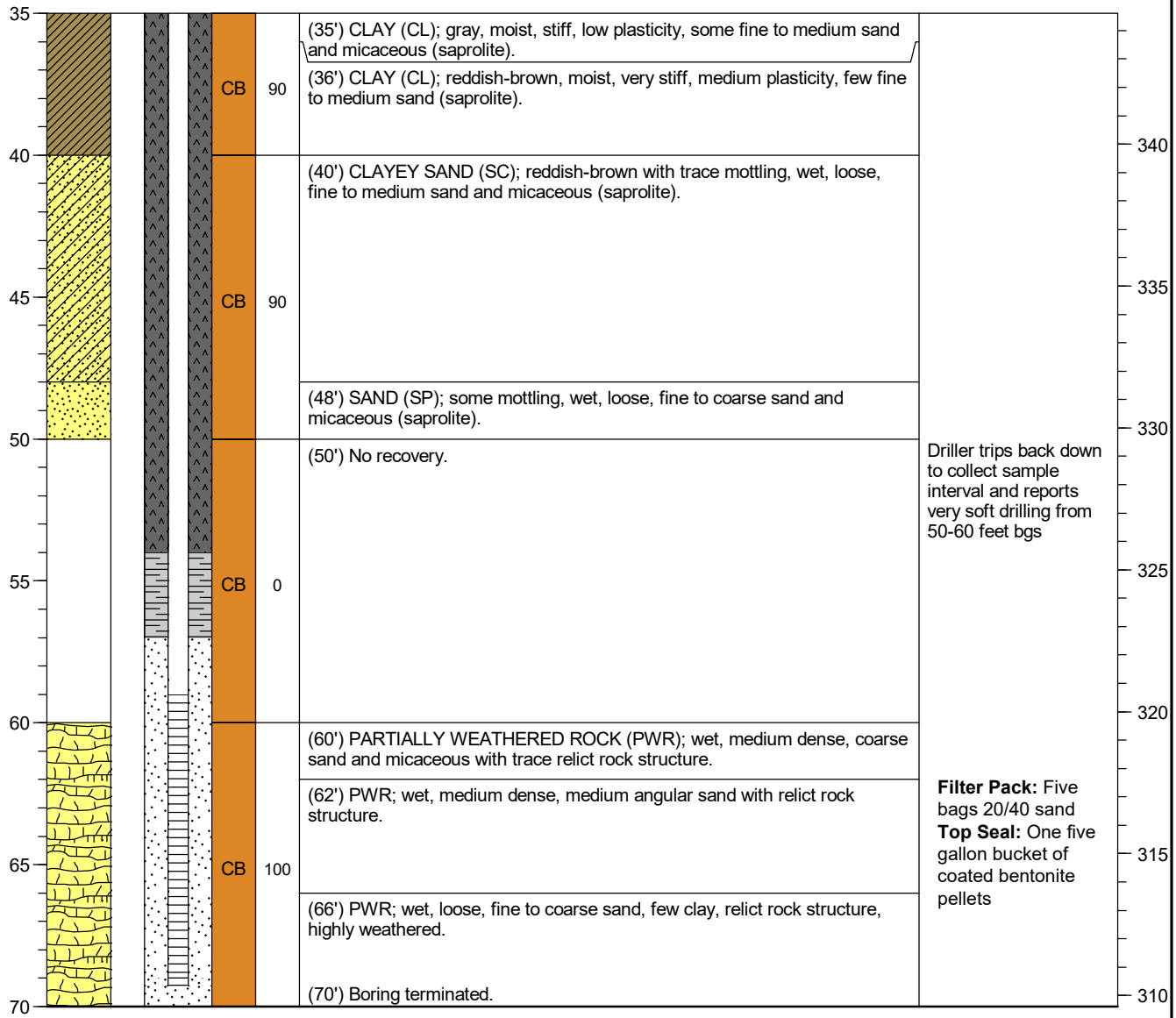
Client: Southern Company Services
Project: Plant Branch Well Install
Address: 1100 Milledgeville Rd, Milledgeville, GA

WELL LOG
Well No. PZ-65I
Page: 2 of 2

Drilling Start Date:	**09/09/2022**	Boring Depth (ft):	**70**	Well Depth (ft TOC):	**72.27**
Drilling End Date:	**09/09/2022**	Boring Diameter (in):	**6**	Well Diameter (in):	**2**
Drilling Company:	**Cascade Drilling**	Sampling Method(s):	**Core Barrel**	Screen Slot (in):	**0.010**
Drilling Method:	**Sonic 4x6**	DTW Post-Installation (ft):	**--**	Riser Material:	**Sch 40 PVC**
Drilling Equipment:	**C-200**	Ground Surface Elevation:	**379.61 NAV88**	Screen Material:	**Sch 40 PVC Pre-Pack**
Driller:	**V. Scott**	Top of Casing Elevation:	**382.06 NAV88**	Seal Material(s):	**Grout, Bentonite**
Logged By:	**C. Cain**	North, East (Y,X):	**1161692.72, 2562240.57**	Filter Pack:	**20/40 Sand**



NOTES: Boring cleared with hand auger from 0-10 feet bgs. Well (+2.45 feet stickup) completed with aboveground protective casing set in concrete. Well depth measured from the top of casing (TOC).

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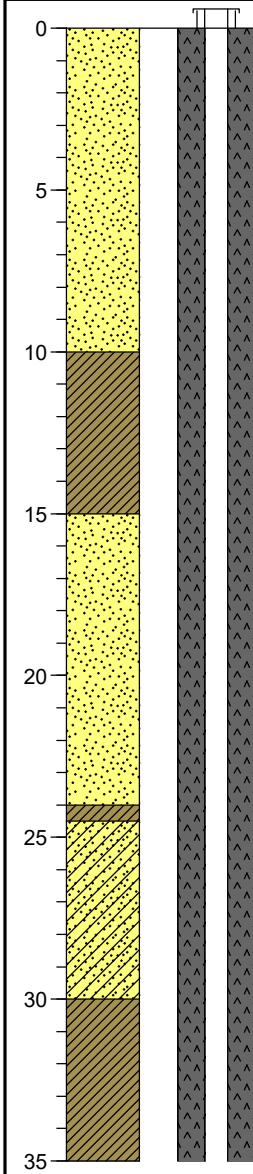
Client: Southern Company Services
Project: Plant Branch Well Install
Address: 1100 Milledgeville Rd, Milledgeville, GA

WELL LOG
Well No. PZ-66I
Page: 1 of 2

Drilling Start Date:	**09/08/2022**	Boring Depth (ft):	**70**	Well Depth (ft TOC):	**70.87**
Drilling End Date:	**09/08/2022**	Boring Diameter (in):	**6**	Well Diameter (in):	**2**
Drilling Company:	**Cascade Drilling**	Sampling Method(s):	**Core Barrel**	Screen Slot (in):	**0.010**
Drilling Method:	**Sonic 4x6**	DTW Post-Installation (ft):	**--**	Riser Material:	**Sch 40 PVC**
Drilling Equipment:	**C-200**	Ground Surface Elevation:	**380.86 NAV88**	Screen Material:	**Sch 40 PVC Pre-Pack**
Driller:	**V. Scott**	Top of Casing Elevation:	**383.52 NAV88**	Seal Material(s):	**Grout, Bentonite**
Logged By:	**C. Cain**	North, East (Y,X):	**1161747.91, 2562134.65**	Filter Pack:	**20/40 Sand**



DEPTH (ft)	Sample Type	Recovery (%)	SOIL/ROCK VISUAL DESCRIPTION	REMARKS	ELEVATION (ft NAV88)
0	GR		(0') SAND (SP); yellowish-brown, dry, loose, nonplastic, few clay clumps easily broken up with hand (saprolite).	Hand augered 0-10 feet bgs.	380
10	CB	60	(10') SANDY CLAY (CL); grayish brown with some reddish brown mottling, dry, stiff, nonplastic, fine to medium sand (saprolite).		370
15			(15') SAND (SP); grayish brown witth some yellowish brown mottling, dry, medium dense, nonplastic, fine to medium sand with trace fine angular gravel (saprolite).		365
20	CB	60	(20') SAND (SP); pale brownish gray, dry, loose, nonplastic, fine to coarse sand with few fine angular gravel and few clay (saprolite).		360
25			(24') SANDY CLAY (CL); reddish-brown, damp, stiff, low plasticity, fine to medium sand with trace mica (saprolite).		355
			(24.5') CLAYEY SAND (SC); brownish gray, dry, loose, nonplastic, some fine angular gravel, sandy clay clumps easily broken up with hand (saprolite).		
30	CB	70	(30') SANDY CLAY (CL); yellowish-brown, moist, stiff, low plasticity, fine to medium sand and micaceous (saprolite).		350
			(33') CLAY (CL); brown, moist, stiff, medium plasticity, few fine to medium sand (saprolite).		
35					

NOTES: Boring cleared with hand auger from 0-10 feet bgs. Well (+2.66 feet stickup) completed with aboveground protective casing set in concrete. Well depth measured from the top of casing (TOC).

Geosyntec consultants engineers | scientists | innovators	**Client:** Southern Company Services **Project:** Plant Branch Well Install **Address:** 1100 Milledgeville Rd, Milledgeville, GA	**WELL LOG** **Well No.** PZ-66I **Page:** 2 of 2

Drilling Start Date:	**09/08/2022**	Boring Depth (ft):	**70**	Well Depth (ft TOC):	**70.87**
Drilling End Date:	**09/08/2022**	Boring Diameter (in):	**6**	Well Diameter (in):	**2**
Drilling Company:	**Cascade Drilling**	Sampling Method(s):	**Core Barrel**	Screen Slot (in):	**0.010**
Drilling Method:	**Sonic 4x6**	DTW Post-Installation (ft):	**--**	Riser Material:	**Sch 40 PVC**
Drilling Equipment:	**C-200**	Ground Surface Elevation:	**380.86 NAV88**	Screen Material:	**Sch 40 PVC Pre-Pack**
Driller:	**V. Scott**	Top of Casing Elevation:	**383.52 NAV88**	Seal Material(s):	**Grout, Bentonite**
Logged By:	**C. Cain**	North, East (Y,X):	**1161747.91, 2562134.65**	Filter Pack:	**20/40 Sand**

DEPTH (ft)	Sample Type	Recovery (%)	SOIL/ROCK VISUAL DESCRIPTION	REMARKS	ELEVATION (ft NAV88)
35	CB	70	(35') CLAYEY SAND (SC); yellowish-brown, wet, medium stiff, low plasticity, fine to medium sand and micaceous (saprolite).		345
40	CB	50	(40') PARTIALLY WEATHERED ROCK (PWR); yellow-brown, damp, loose, nonplastic, micaceous with relict rock structure, regolith.	Driller reports soft drilling	340
45			(45') SANDY CLAY (CL); reddish-brown, damp, stiff, low plasticity, micaceous (saprolite).		335
			(47') PWR; reddish-brown, damp, loose, nonplastic, fine to medium sand with few fine angular gravel.		
50	CB	100	(50') PWR; yellowish-brown, wet, medium dense, low plasticity, fine to medium sand, some clay, trace micaceous.		330
55			(55') PWR; yellowish-brown, wet, loose, low plasticity, trace micaceous and trace relict rock structure.		325
60	CB	100	(60') PWR; brownish red, wet, medium dense, low plasticity, medium sand with some clay.	**Filter Pack:** Five and half bags 20/40 sand **Top Seal:** One five gallon bucket of coated bentonite pellets	320
65			(65') PWR; wet, nonplastic, medium to coarse sand with few clay and relict rock structure, highly weathered.		315
70			(70') Boring terminated.		

NOTES: Boring cleared with hand auger from 0-10 feet bgs. Well (+2.66 feet stickup) completed with aboveground protective casing set in concrete. Well depth measured from the top of casing (TOC).

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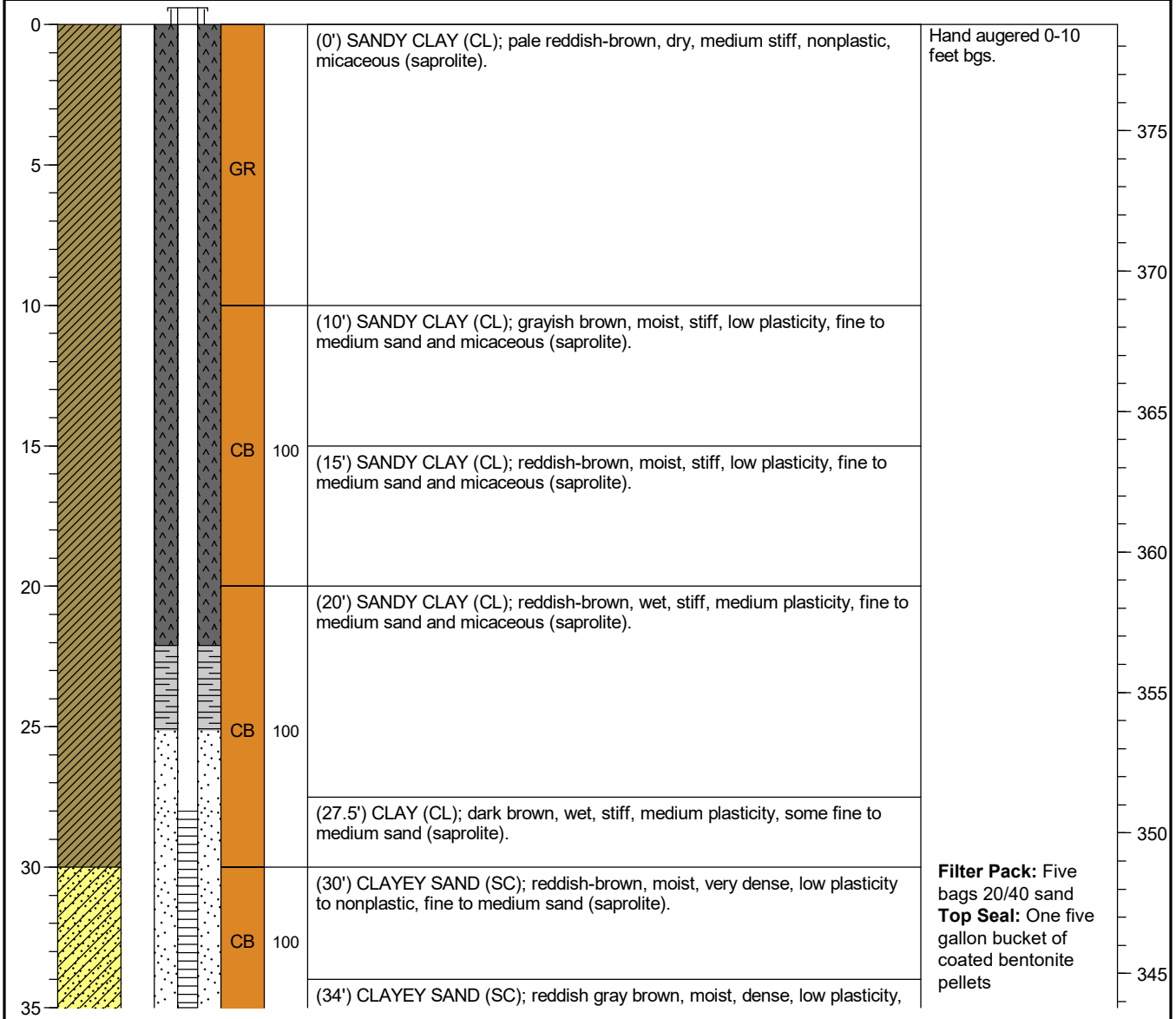
Client: Southern Company Services
Project: Plant Branch Well Install
Address: 1100 Milledgeville Rd, Milledgeville, GA

WELL LOG
Well No. PZ-67
Page: 1 of 2

Drilling Start Date:	**09/07/2022**	Boring Depth (ft):	**55**	Well Depth (ft TOC):	**41.24**
Drilling End Date:	**09/07/2022**	Boring Diameter (in):	**6**	Well Diameter (in):	**2**
Drilling Company:	**Cascade Drilling**	Sampling Method(s):	**Core Barrel**	Screen Slot (in):	**0.010**
Drilling Method:	**Sonic 4x6**	DTW Post-Installation (ft):	**--**	Riser Material:	**Sch 40 PVC**
Drilling Equipment:	**C-200**	Ground Surface Elevation:	**378.78 NAV88**	Screen Material:	**Sch 40 PVC Pre-Pack**
Driller:	**V. Scott**	Top of Casing Elevation:	**381.48 NAV88**	Seal Material(s):	**Grout, Bentonite**
Logged By:	**C. Cain**	North, East (Y,X):	**1161831.98, 2561919.76**	Filter Pack:	**20/40 Sand**



NOTES: Boring cleared with hand auger from 0-10 feet bgs. Well (+2.7 feet stickup) completed with aboveground protective casing set in concrete. Well depth measured from the top of casing (TOC).

Geosyntec consultants engineers | scientists | innovators	**Client:** Southern Company Services **Project:** Plant Branch Well Install **Address:** 1100 Milledgeville Rd, Milledgeville, GA	**WELL LOG** **Well No.** PZ-67 **Page:** 2 of 2

Drilling Start Date:	**09/07/2022**	Boring Depth (ft):	**55**	Well Depth (ft TOC):	**41.24**
Drilling End Date:	**09/07/2022**	Boring Diameter (in):	**6**	Well Diameter (in):	**2**
Drilling Company:	**Cascade Drilling**	Sampling Method(s):	**Core Barrel**	Screen Slot (in):	**0.010**
Drilling Method:	**Sonic 4x6**	DTW Post-Installation (ft):	**--**	Riser Material:	**Sch 40 PVC**
Drilling Equipment:	**C-200**	Ground Surface Elevation:	**378.78 NAV88**	Screen Material:	**Sch 40 PVC Pre-Pack**
Driller:	**V. Scott**	Top of Casing Elevation:	**381.48 NAV88**	Seal Material(s):	**Grout, Bentonite**
Logged By:	**C. Cain**	North, East (Y,X):	**1161831.98, 2561919.76**	Filter Pack:	**20/40 Sand**

DEPTH (ft)	LITHOLOGY	WATER LEVEL	WELL COMPLETION	Sample Type	Recovery (%)	SOIL/ROCK VISUAL DESCRIPTION	REMARKS	ELEVATION (ft NAV88)
35				CB	100	some clay and micaceous (saprolite).		340
40				CB	100	(40') PARTIALLY WEATHERED ROCK (PWR); yellowish-brown, dry, medium dense, nonplastic, few clay and micaceous, trace relict rock structure.		335
45						(45') PWR; pale yellowish-brown, dry, medium dense, nonplastic, medium sand with few angular fine to coarse gravel and few clay, highly weathered rock.		330
50				CB	100	(50') Same as above.		325
55						(55') Boring terminated.		

NOTES: Boring cleared with hand auger from 0-10 feet bgs. Well (+2.7 feet stickup) completed with aboveground protective casing set in concrete. Well depth measured from the top of casing (TOC).

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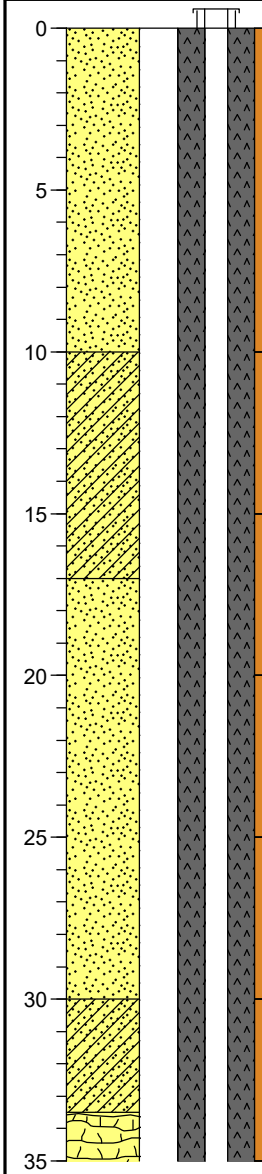
Client: Southern Company Services
Project: Plant Branch Well Install
Address: 1100 Milledgeville Rd, Milledgeville, GA

WELL LOG
Well No. PZ-68D
Page: 1 of 3

Drilling Start Date:	08/31/2022	Boring Depth (ft):	100	Well Depth (ft TOC):	86.93
Drilling End Date:	09/06/2022	Boring Diameter (in):	6	Well Diameter (in):	2
Drilling Company:	Cascade Drilling	Sampling Method(s):	Core Barrel	Screen Slot (in):	0.010
Drilling Method:	Sonic 4x6	DTW Post-Installation (ft):	--	Riser Material:	Sch 40 PVC
Drilling Equipment:	C-200	Ground Surface Elevation:	402.50 NAV88	Screen Material:	Sch 40 PVC Pre-Pack
Driller:	V. Scott	Top of Casing Elevation:	405.25 NAV88	Seal Material(s):	Grout, Bentonite
Logged By:	C. Cain	North, East (Y,X):	1160690.48, 2558512.9	Filter Pack:	20/40 Sand



DEPTH (ft)	Sample Type	Recovery (%)	SOIL/ROCK VISUAL DESCRIPTION	REMARKS	ELEVATION (ft NAV88)
0	GR		(0') SAND (SP); yellowish-brown, dry, loose, nonplastic, fine to medium sand (saprolite).	Hand augered 0-10 feet bgs.	400
10	CB	100	(10') CLAYEY SAND (SC); reddish-brown, damp, very loose, nonplastic, fine to medium sand, micaceous with some clay (saprolite).		395
			(12') CLAYEY SAND (SC); grayish brown, moist, very loose, nonplastic, fine to medium sand with some clay and micaceous (saprolite).		390
15	CB	100	(15') Same as above.		
			(17') SAND (SP); yellowish-brown, moist, medium dense, nonplastic, fine to medium sand with medium quartz grains and micaceous (saprolite).		385
20	CB	100	(20') SAND (SP); yellowish-brown, moist, medium dense, nonplastic, fine to medium sand, micaceous (saprolite).		380
25	CB	100	(24') SAND (SP); grayish brown, moist, loose, medium sand with some fine to coarse sand and micaceous with coarse quartz grains (saprolite).		375
30	CB	100	(30') CLAYEY SAND (SC); grayish brown, moist, medium dense, medium plasticity, fine to medium sand and very micaceous (saprolite).	250 gallons water used from 30-45 feet bgs	370
35			(33.5') PARTIALLY WEATHERED ROCK (PWR); whitish gray and black, damp, loose, nonplastic, fine to coarse sand with relict rock structure, biotite,		

NOTES: Boring cleared with hand auger from 0-10 feet bgs. Well (+2.75 feet stickup) completed with aboveground protective casing set in concrete. Well depth measured from the top of casing (TOC).

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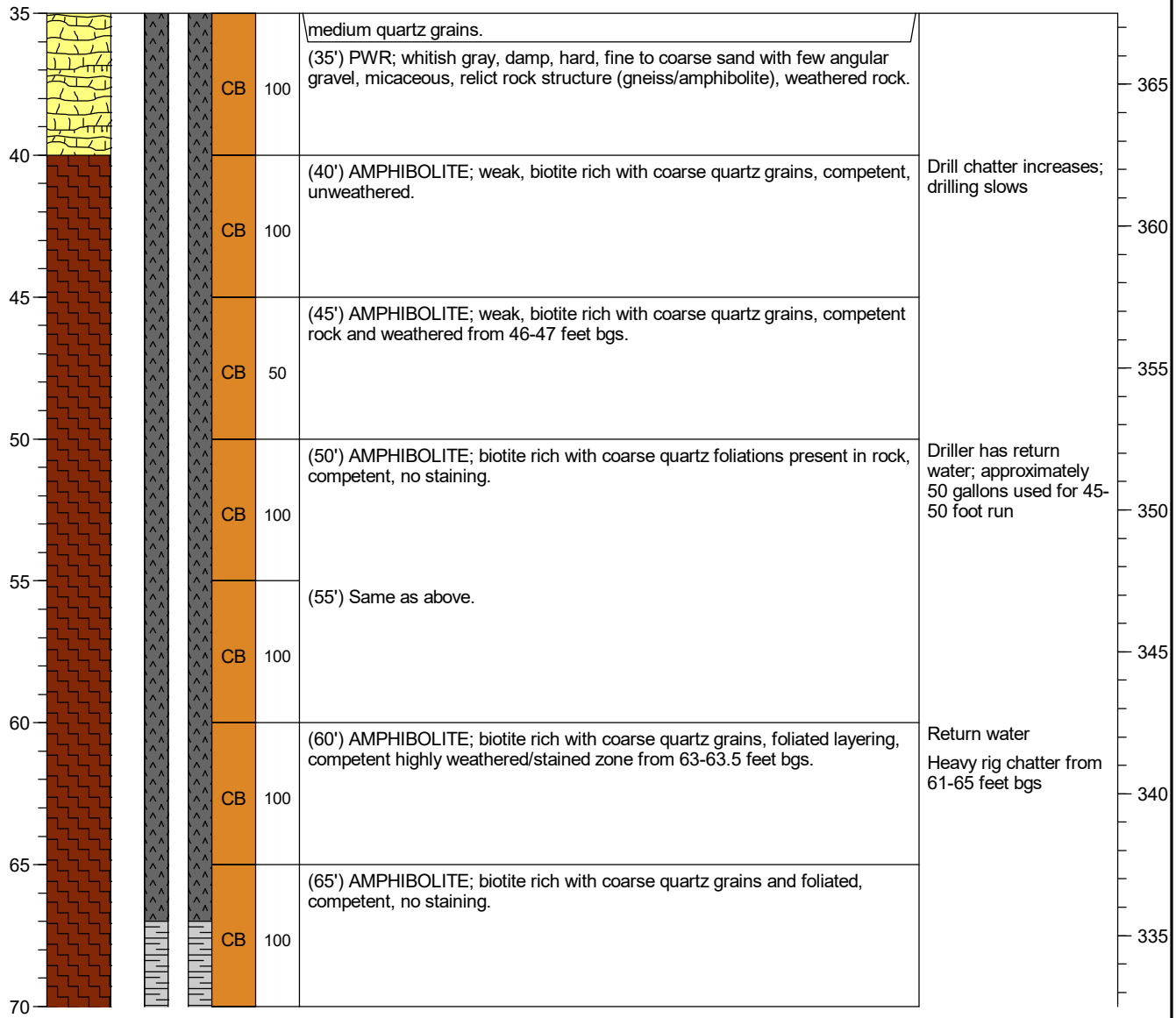
Client: Southern Company Services
Project: Plant Branch Well Install
Address: 1100 Milledgeville Rd, Milledgeville, GA

WELL LOG
Well No. PZ-68D
Page: 2 of 3

Drilling Start Date:	08/31/2022	Boring Depth (ft):	100	Well Depth (ft TOC):	86.93
Drilling End Date:	09/06/2022	Boring Diameter (in):	6	Well Diameter (in):	2
Drilling Company:	Cascade Drilling	Sampling Method(s):	Core Barrel	Screen Slot (in):	0.010
Drilling Method:	Sonic 4x6	DTW Post-Installation (ft):	--	Riser Material:	Sch 40 PVC
Drilling Equipment:	C-200	Ground Surface Elevation:	402.50 NAV88	Screen Material:	Sch 40 PVC Pre-Pack
Driller:	V. Scott	Top of Casing Elevation:	405.25 NAV88	Seal Material(s):	Grout, Bentonite
Logged By:	C. Cain	North, East (Y,X):	1160690.48, 2558512.9	Filter Pack:	20/40 Sand



DEPTH (ft)	Sample Type	Recovery (%)	SOIL/ROCK VISUAL DESCRIPTION	REMARKS	ELEVATION (ft NAV88)
35			medium quartz grains.		
	CB	100	(35') PWR; whitish gray, damp, hard, fine to coarse sand with few angular gravel, micaceous, relict rock structure (gneiss/amphibolite), weathered rock.		365
40	CB	100	(40') AMPHIBOLITE; weak, biotite rich with coarse quartz grains, competent, unweathered.	Drill chatter increases; drilling slows	360
45	CB	50	(45') AMPHIBOLITE; weak, biotite rich with coarse quartz grains, competent rock and weathered from 46-47 feet bgs.		355
50	CB	100	(50') AMPHIBOLITE; biotite rich with coarse quartz foliations present in rock, competent, no staining.	Driller has return water; approximately 50 gallons used for 45-50 foot run	350
55	CB	100	(55') Same as above.		345
60	CB	100	(60') AMPHIBOLITE; biotite rich with coarse quartz grains, foliated layering, competent highly weathered/stained zone from 63-63.5 feet bgs.	Return water Heavy rig chatter from 61-65 feet bgs	340
65	CB	100	(65') AMPHIBOLITE; biotite rich with coarse quartz grains and foliated, competent, no staining.		335
70					

NOTES: Boring cleared with hand auger from 0-10 feet bgs. Well (+2.75 feet stickup) completed with aboveground protective casing set in concrete. Well depth measured from the top of casing (TOC).

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Client: Southern Company Services
Project: Plant Branch Well Install
Address: 1100 Milledgeville Rd, Milledgeville, GA

WELL LOG
Well No. PZ-68D
Page: 3 of 3

Drilling Start Date:	**08/31/2022**	Boring Depth (ft):	**100**	Well Depth (ft TOC):	**86.93**
Drilling End Date:	**09/06/2022**	Boring Diameter (in):	**6**	Well Diameter (in):	**2**
Drilling Company:	**Cascade Drilling**	Sampling Method(s):	**Core Barrel**	Screen Slot (in):	**0.010**
Drilling Method:	**Sonic 4x6**	DTW Post-Installation (ft):	**--**	Riser Material:	**Sch 40 PVC**
Drilling Equipment:	**C-200**	Ground Surface Elevation:	**402.50 NAV88**	Screen Material:	**Sch 40 PVC Pre-Pack**
Driller:	**V. Scott**	Top of Casing Elevation:	**405.25 NAV88**	Seal Material(s):	**Grout, Bentonite**
Logged By:	**C. Cain**	North, East (Y,X):	**1160690.48, 2558512.9**	Filter Pack:	**20/40 Sand**

DEPTH (ft)	LITHOLOGY	WATER LEVEL	WELL COMPLETION	Sample Type	Recovery (%)	SOIL/ROCK VISUAL DESCRIPTION	REMARKS	ELEVATION (ft NAV88)
70						(70') AMPHIBOLITE; biotite rich with some foliation, no staining.		
				CB	100	(72') Some staining from 72-72.5 feet bgs.		330
75						(75') AMPHIBOLITE; biotite rich with some foliation.	Return water from 75-85 feet bgs	
								325
80				CB	100	(81') Quartz rich from 81-83 feet.	**Filter Pack:** Five bags 20/40 sand **Top Seal:** One five gallon bucket of coated bentonite pellets	
						(82') Partly fractured, some staining.		320
85						(85') AMPHIBOLITE; biotite rich with some quartz and some foliation, competent.	Heavy drill chatter from 85-90 feet bgs	
								315
90				CB	80		Heavy drill chatter from 90-100 feet bgs	
								310
95						(95') AMPHIBOLITE; some biotite and quartz-rich with weak foliation, competent.		
								305
100						(100') Boring terminated.		

NOTES: Boring cleared with hand auger from 0-10 feet bgs. Well (+2.75 feet stickup) completed with aboveground protective casing set in concrete. Well depth measured from the top of casing (TOC).

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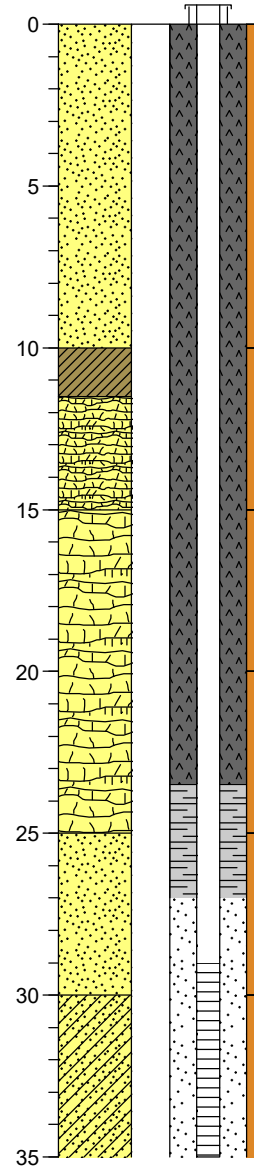
Client: Southern Company Services
Project: Plant Branch Well Install
Address: 1100 Milledgeville Rd, Milledgeville, GA

WELL LOG
Well No. PZ-69I
Page: 1 of 2

Drilling Start Date:	**08/31/2022**	Boring Depth (ft):	**40**	Well Depth (ft TOC):	**41.59**
Drilling End Date:	**08/31/2022**	Boring Diameter (in):	**6**	Well Diameter (in):	**2**
Drilling Company:	**Cascade Drilling**	Sampling Method(s):	**Core Barrel**	Screen Slot (in):	**0.010**
Drilling Method:	**Sonic 4x6**	DTW Post-Installation (ft):	**--**	Riser Material:	**Sch 40 PVC**
Drilling Equipment:	**C-200**	Ground Surface Elevation:	**376.97 NAV88**	Screen Material:	**Sch 40 PVC Pre-Pack**
Driller:	**V. Scott**	Top of Casing Elevation:	**379.36 NAV88**	Seal Material(s):	**Grout, Bentonite**
Logged By:	**C. Cain**	North, East (Y,X):	**1160311.39, 2558447.46**	Filter Pack:	**20/40 Sand**



DEPTH (ft)	Sample Type	Recovery (%)	SOIL/ROCK VISUAL DESCRIPTION	REMARKS	ELEVATION (ft NAV88)
0	GR		(0') SAND (SP); reddish-brown, dry, loose, nonplastic (saprolite).	Hand augered 0-10 feet bgs.	375
10	CB	80	(10') SANDY CLAY (CL); yellowish reddish-brown, wet, soft, medium plasticity, some fine to medium sand with mica present (saprolite). (11.5') SAPROLITE; yellowish-brown with intermittent dark gray zones, moist, low plasticity, fine to medium sand with some clay, highly weathered rock.		370
15	CB	100	(15') PARTIALLY WEATHERED ROCK (PWR); moist, medium stiff, low plasticity, fine to medium sand with some clay and weak structure, highly weathered rock.		365
20	CB	100	(20') Same as above. (21.5') PWR; yellowish-brown, moist, medium stiff, low plasticity, fine to medium sand and micaceous with some rock structure, weathered. (23.5') PWR; greenish gray, moist, medium stiff, low plasticity, some rock structure, micaceous, weathered.		360
25	CB	100	(25') SAND (SP); grayish brown, slightly moist, medium dense, low plasticity to nonplastic, fine to medium sand with some clay, weathered rock (saprolite).		355
30	CB	100	(30') CLAYEY SAND (SC); brown, wet, stiff, low plasticity, fine to medium sand with some clay (saprolite).	**Filter Pack:** Five bags 20/40 sand **Top Seal:** One five gallon bucket of coated bentonite pellets	350
35			(34') CLAYEY SAND (SC); grayish brown, wet, stiff, low plasticity, medium		345

NOTES: Boring cleared with hand auger from 0-10 feet bgs. Well (+2.39 feet stickup) completed with aboveground protective casing set in concrete. Well depth measured from the top of casing (TOC).

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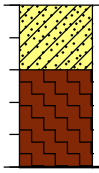
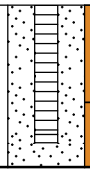
Client: Southern Company Services
Project: Plant Branch Well Install
Address: 1100 Milledgeville Rd, Milledgeville, GA

WELL LOG
Well No. PZ-69I
Page: 2 of 2

Drilling Start Date:	**08/31/2022**	Boring Depth (ft):	**40**	Well Depth (ft TOC):	**41.59**
Drilling End Date:	**08/31/2022**	Boring Diameter (in):	**6**	Well Diameter (in):	**2**
Drilling Company:	**Cascade Drilling**	Sampling Method(s):	**Core Barrel**	Screen Slot (in):	**0.010**
Drilling Method:	**Sonic 4x6**	DTW Post-Installation (ft):	**--**	Riser Material:	**Sch 40 PVC**
Drilling Equipment:	**C-200**	Ground Surface Elevation:	**376.97 NAV88**	Screen Material:	**Sch 40 PVC Pre-Pack**
Driller:	**V. Scott**	Top of Casing Elevation:	**379.36 NAV88**	Seal Material(s):	**Grout, Bentonite**
Logged By:	**C. Cain**	North, East (Y,X):	**1160311.39, 2558447.46**	Filter Pack:	**20/40 Sand**

DEPTH (ft)	LITHOLOGY	WATER LEVEL	WELL COMPLETION	Sample Type	Recovery (%)	SOIL/ROCK VISUAL DESCRIPTION	REMARKS	ELEVATION (ft NAV88)
35				CB	100	to coarse sand with some clay (saprolite).		340
						(37') AMPHIBOLITE; gray, wet.		
40				CB	100	(38') AMPHIBOLITE; competent with few fractures.	Heavy drill chatter from 38-40 feet bgs	
						(40') Boring terminated.		

NOTES: Boring cleared with hand auger from 0-10 feet bgs. Well (+2.39 feet stickup) completed with aboveground protective casing set in concrete. Well depth measured from the top of casing (TOC).

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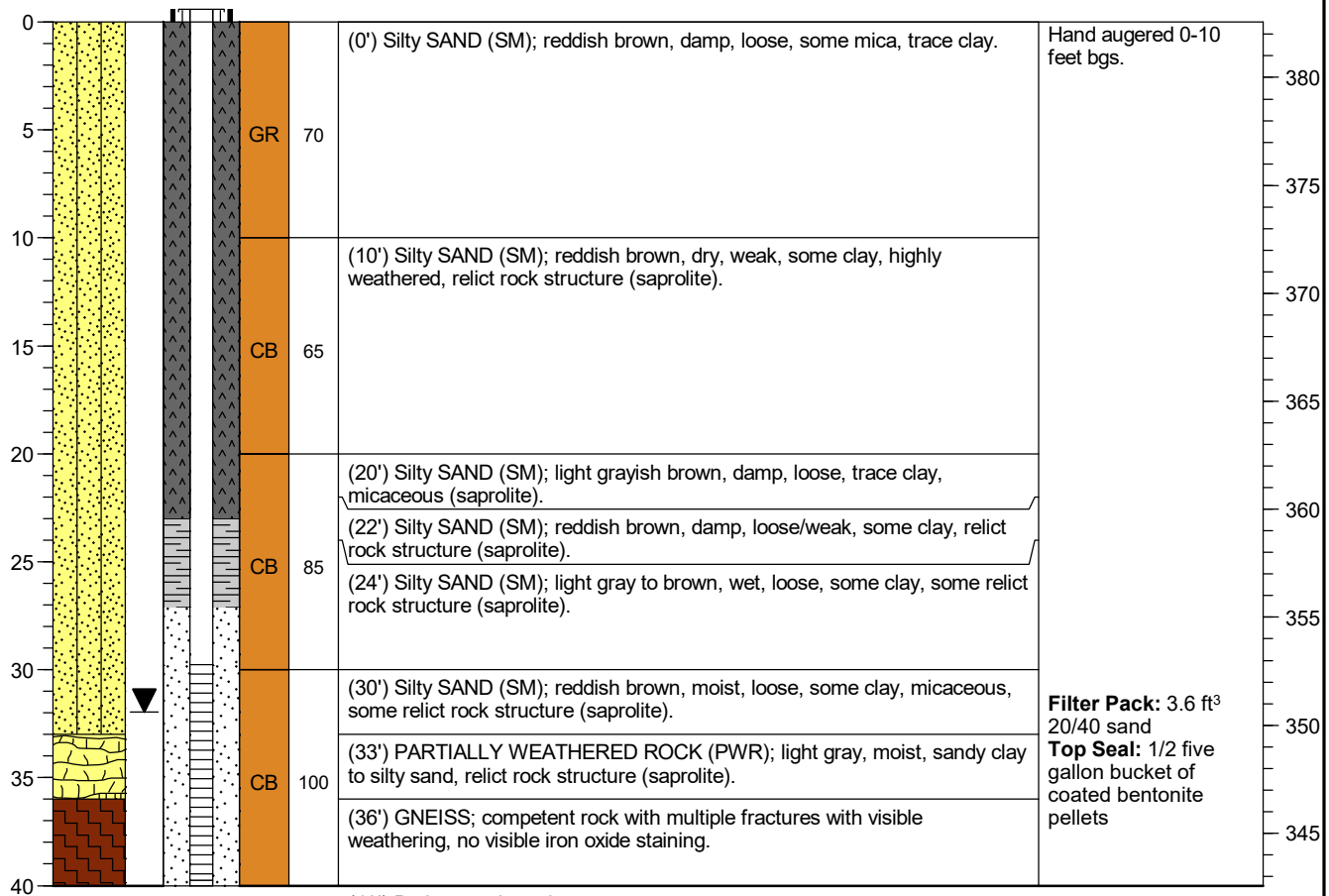
Client: Southern Company Services
Project: Plant Branch Well Install
Address: 1100 Milledgeville Rd, Milledgeville, GA

WELL LOG
Well No. PZ-71I
Page: 1 of 1

Drilling Start Date:	**05/02/2023**	Boring Depth (ft):	**40**	Well Depth (ft BGS):	**40**
Drilling End Date:	**05/02/2023**	Boring Diameter (in):	**6**	Well Diameter (in):	**2**
Drilling Company:	**Cascade Drilling**	Sampling Method(s):	**Core Barrel**	Screen Slot (in):	**0.010**
Drilling Method:	**Sonic 4x6**	DTW Post-Installation (ft):	**31.81**	Riser Material:	**Sch 40 PVC**
Drilling Equipment:	**TSI-150**	Ground Surface Elevation:	**382.57 NAV88**	Screen Material:	**Sch 40 PVC U-Pack**
Driller:	**C. Tindel**	Top of Casing Elevation:	**385.34 NAV88**	Seal Material(s):	**Grout, Bentonite**
Logged By:	**D. Kegley**	North, East (Y,X):	**1160295.35, 2558230.83**	Filter Pack:	**20/40 Sand**



DEPTH (ft)	Sample Type	Recovery (%)	SOIL/ROCK VISUAL DESCRIPTION	REMARKS	ELEVATION (ft NAV88)
0	GR	70	(0') Silty SAND (SM); reddish brown, damp, loose, some mica, trace clay.	Hand augered 0-10 feet bgs.	382.57
10	CB	65	(10') Silty SAND (SM); reddish brown, dry, weak, some clay, highly weathered, relict rock structure (saprolite).		372.57
20	CB	85	(20') Silty SAND (SM); light grayish brown, damp, loose, trace clay, micaceous (saprolite). (22') Silty SAND (SM); reddish brown, damp, loose/weak, some clay, relict rock structure (saprolite). (24') Silty SAND (SM); light gray to brown, wet, loose, some clay, some relict rock structure (saprolite).		362.57
30	CB	100	(30') Silty SAND (SM); reddish brown, moist, loose, some clay, micaceous, some relict rock structure (saprolite). (33') PARTIALLY WEATHERED ROCK (PWR); light gray, moist, sandy clay to silty sand, relict rock structure (saprolite). (36') GNEISS; competent rock with multiple fractures with visible weathering, no visible iron oxide staining.	**Filter Pack:** 3.6 ft³ 20/40 sand **Top Seal:** 1/2 five gallon bucket of coated bentonite pellets	352.57
40			(40') Boring terminated.		342.57

NOTES: Boring cleared with hand auger from 0-10 feet bgs. Well (+2.77 feet stickup) completed with aboveground protective casing set in concrete. Well depth measured from ground surface (BGS).

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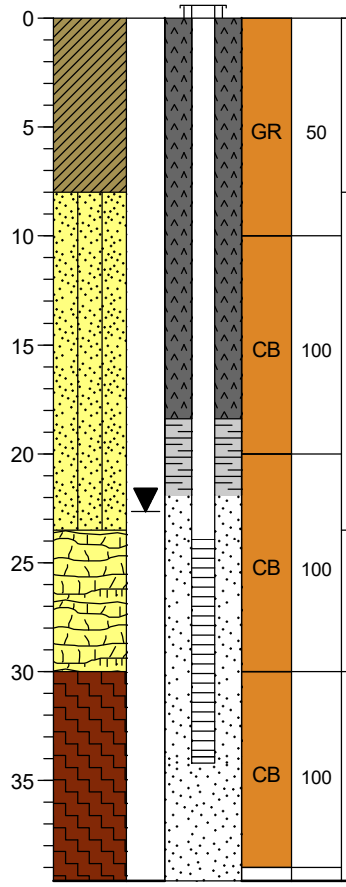
Client: Southern Company Services
Project: Plant Branch Well Install
Address: 1100 Milledgeville Rd, Milledgeville, GA

WELL LOG
Well No. PZ-72I
Page: 1 of 1

Drilling Start Date:	**05/09/2023**	Boring Depth (ft):	**39.6**	Well Depth (ft BGS):	**34.2**
Drilling End Date:	**05/09/2023**	Boring Diameter (in):	**6**	Well Diameter (in):	**2**
Drilling Company:	**Cascade Drilling**	Sampling Method(s):	**Core Barrel**	Screen Slot (in):	**0.010**
Drilling Method:	**Sonic 4x6**	DTW Post-Installation (ft):	**22.73**	Riser Material:	**Sch 40 PVC**
Drilling Equipment:	**TSI-150 CC**	Ground Surface Elevation:	**365.91 NAV88**	Screen Material:	**Sch 40 PVC U-Pack**
Driller:	**C. Franklin**	Top of Casing Elevation:	**368.57 NAV88**	Seal Material(s):	**Grout, Bentonite**
Logged By:	**C. Cain/T. Kessler**	North, East (Y,X):	**1160133.29, 2558394.65**	Filter Pack:	**20/40 Sand**



DEPTH (ft)	SOIL/ROCK VISUAL DESCRIPTION	REMARKS	ELEVATION (ft NAV88)
0	(0') CLAY (CL); reddish-brown, moist, stiff, medium plasticity, some sand, some silt, mica throughout (saprolite).	Hand augered 0-10 feet bgs.	365
5			360
10	(8') Silty SAND (SM); yellowish brown, moist, loose, fine to medium sand, few fine to coarse gravel, mica throughout (saprolite).		355
15			350
20	(20') Same as above.	Slow drilling from 20-30 feet bgs.	345
25	(23.5') PARTIALLY WEATHERED ROCK (PWR); dry, loose, fine to medium sand, some gravel, weak structure, friable, thin lenses of competent amphibolite (biotite-rich and quartz-rich), highly weathered.	Soft zone from 23-24 feet bgs. Slow drilling and rig chatter from 24-25 feet bgs. DTW = 25.72 feet bgs (measured in open borehole) **Filter Pack:** 4 ft³ 20/40 sand **Top Seal:** 1/2 five gallon bucket of coated bentonite pellets	340
30	(30') AMPHIBOLITE; biotite rich with coarse quartz grains, competent.		335
35			330
	(39.6') Boring terminated.		

NOTES: Boring cleared with hand auger from 0-10 feet bgs. Well (+2.66 feet stickup) completed with aboveground protective casing set in concrete. Well depth measured from below ground surface (BGS).

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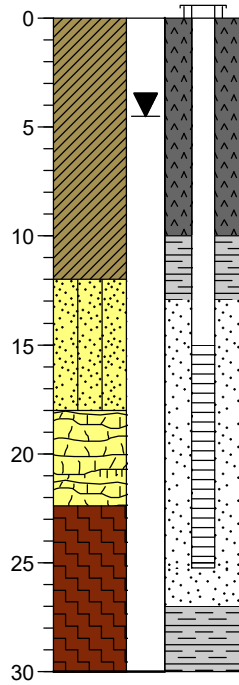
Client: Southern Company Services
Project: Plant Branch Well Install
Address: 1100 Milledgeville Rd, Milledgeville, GA

WELL LOG

Well No. PZ-73I
Page: 1 of 1

Drilling Start Date:	05/10/2023	Boring Depth (ft):	30	Well Depth (ft BGS):	25.25
Drilling End Date:	05/10/2023	Boring Diameter (in):	6	Well Diameter (in):	2
Drilling Company:	Cascade Drilling	Sampling Method(s):	Core Barrel	Screen Slot (in):	0.010
Drilling Method:	Sonic 4x6	DTW Post-Installation (ft):	4.65	Riser Material:	Sch 40 PVC
Drilling Equipment:	TSI-150 CC	Ground Surface Elevation:	349.87 NAV88	Screen Material:	Sch 40 PVC U-Pack
Driller:	C. Franklin	Top of Casing Elevation:	352.63 NAV88	Seal Material(s):	Grout, Bentonite
Logged By:	C. Cain	North, East (Y,X):	1160226.37, 2558559.3	Filter Pack:	20/40 Sand



DEPTH (ft)	Recovery (%)	SOIL/ROCK VISUAL DESCRIPTION	REMARKS	ELEVATION (ft NAV88)
0		(0') CLAY (CL); reddish-brown, damp, stiff, medium plasticity, some fine to medium sand, some silt (saprolite).	Hand augered 0-10 feet bgs.	
5	80	(6') CLAY (CL); brown, damp, stiff, medium plasticity, some fine to medium sand, trace fine gravel (saprolite).		345
10		(10') Same as above.		340
15	100	(12') Silty SAND (SM); brownish gray, damp, loose, fine to coarse sand (subangular), fine to coarse gravel, micaceous (saprolite).		335
20		(18') PARTIALLY WEATHERED ROCK (PWR); brownish gray, damp, loose, texture of silty sand, medium to coarse sand, micaceous, friable rock (amphibolite).	DTW = 18.96 feet bgs (measured in open borehole); bottom 5 feet of boring exposed. Slow drilling. Driller reports rock; switched from dry drilling to using water while drilling. **Filter Pack:** 4 ft^3 20/40 sand **Top Seal:** 1/2 five gallon bucket of coated bentonite pellets	330
25	100	(22.4') AMPHIBOLITE; biotite rich with coarse quartz grains, competent.		325
30		(30') Boring terminated.		320

NOTES: Boring cleared with hand auger from 0-10 feet bgs. Well (+2.76 feet stickup) completed with aboveground protective casing set in concrete. Well depth measured from below ground surface (BGS).

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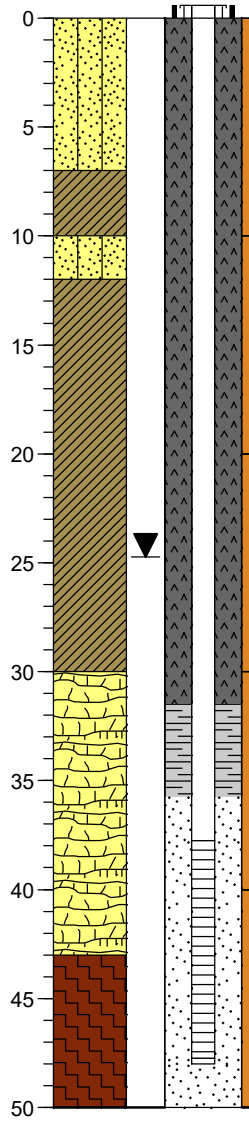
Client: Southern Company Services
Project: Plant Branch Well Install
Address: 1100 Milledgeville Rd, Milledgeville, GA

WELL LOG
Well No. PZ-74I
Page: 1 of 1

Drilling Start Date:	**05/24/2023**	Boring Depth (ft):	**50**	Well Depth (ft BGS):	**48**
Drilling End Date:	**05/24/2023**	Boring Diameter (in):	**6**	Well Diameter (in):	**2**
Drilling Company:	**Cascade Drilling**	Sampling Method(s):	**Core Barrel**	Screen Slot (in):	**0.010**
Drilling Method:	**Sonic 4x6**	DTW Post-Installation (ft):	**25.08**	Riser Material:	**Sch 40 PVC**
Drilling Equipment:	**TSI-150 CC**	Ground Surface Elevation:	**368.25 NAV88**	Screen Material:	**Sch 40 PVC U-Pack**
Driller:	**B. Griffis**	Top of Casing Elevation:	**371.13 NAV88**	Seal Material(s):	**Grout, Bentonite**
Logged By:	**D. Kegley**	North, East (Y,X):	**1160189.3, 2557970.94**	Filter Pack:	**20/40 Sand**



DEPTH (ft)	Sample Type	Recovery (%)	SOIL/ROCK VISUAL DESCRIPTION	REMARKS	ELEVATION (ft NAV88)
0	GR	80	(0') Silty SAND with clay (SM); reddish-brown, dry, loose, some mica.	Hand augered 0-10 feet bgs.	365
7			(7') Sandy CLAY (CL); light brown to reddish-brown, dry, highly weathered, texture of sandy clay, micaceous, some relict rock structure (saprolite).		360
10	CB	100	(10') Silty SAND (SM); light brown, dry, loose, trace clay.		
12			(12') Sandy CLAY (CL); light brown to reddish-brown, dry, loose, texture of sandy clay, some silty sand, highly weathered, some relict rock structure (saprolite).		355
20	CB	70	(20') Sandy CLAY (CL); reddish-brown, dry, loose, texture of sandy clay/silty sand, highly weathered, some relict rock structure (saprolite).		350
30	CB	85	(30') PARTIALLY WEATHERED ROCK (PWR); brownish gray, wet, texture of silty sand with rock fragments.		345
40			(40') Same as above.	**Filter Pack:** 3.4 ft^3 20/40 sand **Top Seal:** 1/2 five gallon bucket of coated bentonite pellets	335
43	CB	100	(43') GNEISS; competent, multiple fractures with visible weathering, minor iron oxide staining.		330
50			(50') Boring terminated.		325
					320

NOTES: Boring cleared with hand auger from 0-10 feet bgs. Well (+2.88 feet stickup) completed with aboveground protective casing set in concrete. Well depth measured from below ground surface (BGS).

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Client: Southern Company Services
Project: Plant Branch Well Install
Address: 1100 Milledgeville Rd, Milledgeville, GA

WELL LOG

Well No. PZ-75I
Page: 1 of 1

Drilling Start Date:	06/26/2023	Boring Depth (ft):	30	Well Depth (ft BGS):	27.4
Drilling End Date:	06/27/2023	Boring Diameter (in):	6	Well Diameter (in):	2
Drilling Company:	Cascade Drilling	Sampling Method(s):	Core Barrel	Screen Slot (in):	0.010
Drilling Method:	Sonic 4x6	DTW Post-Installation (ft):	14.67	Riser Material:	Sch 40 PVC
Drilling Equipment:	TSI-150 CC	Ground Surface Elevation:	354.88 NAV88	Screen Material:	Sch 40 PVC U-Pack
Driller:	B. Griffis	Top of Casing Elevation:	357.86 NAV88	Seal Material(s):	Grout, Bentonite
Logged By:	D. Kegley	North, East (Y,X):	1160009.37, 2558343.03	Filter Pack:	20/40 Sand

DEPTH (ft)	LITHOLOGY	WATER LEVEL	WELL COMPLETION	Sample Type	Recovery (%)	SOIL/ROCK VISUAL DESCRIPTION	REMARKS	ELEVATION (ft NAV88)
0				GR	75	(0') Sandy CLAY (CL); reddish-brown, dry, loose, micaceous, some silt, saprolite.	Hand augered 0-10 feet bgs.	350
5								
10				CB	100	(10') Same as above. (12') Silty SAND (SM); reddish-brown, dry, loose, micaceous, trace clay. (17') PARTIALLY WEATHERED ROCK (PWR); yellowish gray to brown, dry, texture of silty sand, some relict rock structure.		345
15								340
20				CB	80	(20') Increased rock fragments, some relict rock structure, with potential fractures at 20.5 feet bgs. (22') Wet.		335
25						(24') GNEISS; black and white, hard, massive, iron staining from 24-25 feet bgs, rock fragments increased and pulverized. (24.5') Potential fractures at 24.5 feet bgs.	Driller indicates top of rock at 24 feet bgs. **Filter Pack:** 3.6 ft³ 20/40 sand **Top Seal:** 1/2 five gallon bucket of coated bentonite pellets	330
30						(30') Boring terminated.		325

NOTES: Boring cleared with hand auger from 0-10 feet bgs. Well (+2.98 feet stickup) completed with aboveground protective casing set in concrete. Well depth measured from below ground surface (BGS).

APPENDIX B

GA EPD HSRA Response

GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION

Richard E. Dunn, Director

Land Protection Branch
2 Martin Luther King, Jr. Drive
Suite 1054, East Tower
Atlanta, Georgia 30334
404-657-8600

November 16, 2018

Georgia Power Company
c/o Mr. Robert Mitchell, III
241 Ralph McGill Boulevard, NE
BIN #10021
Atlanta, Georgia 30308

RE: Release Notification
Georgia Power Plant Branch
1100 Milledgeville Road
Milledgeville, Putnam County
Tax Parcel 086-002

Dear Mr. Mitchell:

Pursuant to the Rules for Hazardous Site Response, specifically Rule 391-3-19-.05(1) "Listing on the Hazardous Site Inventory", the Environmental Protection Division (EPD) has evaluated the above referenced property to determine whether a release exceeding a reportable quantity has occurred.

Based upon the information available to EPD at the time this evaluation was done, including the release notification that was submitted on March 20, 2018, EPD has no reason to believe that a release exceeding a reportable quantity has occurred at this property. The property was evaluated as being inaccessible, non-residential use, with the nearest downgradient drinking water well greater than 3 miles distant. Enclosed is a copy of our inspection report, recommendation memorandum, and Reportable Quantities Screening Method (RQSM) score sheet that summarize the conditions used to evaluate this property. Based on this information, this property will not be listed on the Hazardous Site Inventory.

As provided for in Section 391-3-19-.04(4) of the Rules, the owner of the property must notify EPD if they become aware of any information not provided in the notification that should have been provided, or if they become aware of any information or events that suggest changes may have occurred in any of the conditions referenced in the attached documents. Please provide a copy of this letter and the attached documents to any person to which title or an interest in this property is transferred.

Please direct questions regarding this matter to Bill Williams of the Response and Remediation Program at 404-232-1502.

Sincerely,

David Brownlee
Unit Coordinator
Response and Remediation Program

C: Brian Steele, Resolute (by e-mail only)
Encl.: Trip Report, RQSM Score Sheet, Recommendation Memorandum
File: Non-HSI [Georgia Power-Plant Branch, Putnam County]

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GEORGIA
DEPARTMENT OF NATURAL RESOURCES

ENVIRONMENTAL PROTECTION DIVISION

Richard E. Dunn, Director

Land Protection Branch
2 Martin Luther King, Jr. Drive
Suite 1054, East Tower
Atlanta, Georgia 30334
404-657-8600

November 15, 2018

MEMORANDUM
TO: David Brownlee
FROM: Bill Williams
SUBJECT: Non-HSI Recommendation
Georgia Power - Plant Branch
1100 Milledgeville Road
Milledgeville, Putnam County

Background

The Response and Remediation Program received a Release Notification/Reporting Form for the subject property on March 20, 2018. The subject property is a former coal-fired steam generating power plant that was retired is currently undergoing a complete decommissioning. An electrical substation will be the only remaining operation at this property. The notification indicated a release to groundwater of arsenic and cadmium above the Maximum Contaminant Level (MCL). One groundwater sample (MW-C2-02) also found lead at 35.3 µg/L, which is greater than the MCL; However, the consultant attributed the lead contamination to a petroleum release. Soil samples collected in the area of a former skeet range found benzo(a)pyrene, benzo(a)anthracene, benzo(b)fluoranthene, chrysene, and arsenic at levels exceeding the Appendix I Notification Concentrations (NCs). This release is considered to be a separate release from the one that originally resulted in the property being listed as Site #10051 on the Hazardous Site Inventory (HSI).

A site visit was performed to verify current conditions and perform a limited target survey. See the attached Trip Report (11-15-2018) for details. The site visit found the property is completely fenced and staffed with onsite 24-hour guard service. The nearest residents were found at the North River condominiums, which are approximately 1200 feet from the area of the former power plant and more than 6000 feet from the area of the skeet range. The area of soil contamination is within the secured fenced area. The area of groundwater contamination is on the shore of Lake Sinclair and the flow gradient is directly into the lake. There are no down gradient drinking water wells due to the immediate groundwater intercept provided by Lake Sinclair.

Groundwater Pathway

The subject property was scored for a known release of arsenic to groundwater at concentrations above the MCL. No human exposure is suspected. The quantity of the release is unknown and there were no drinking water wells identified within 3-miles downgradient of the subject property. The groundwater pathway score of 8.1 does not exceed the threshold value of 10.0.

On-Site Exposure

The subject property was scored for a known release of arsenic to the soils. A cover value of 5 was assigned.. The site is inaccessible due to the security fencing and guard service. The nearest resident individual is located between 1001 and 3000 feet from the subject property. The on-site pathway score of 0.0 does not exceed the threshold value of 20.0

Recommendation:

The groundwater pathway score is 8.1, and the on-site exposure pathway score is 0.0; Therefore, I recommend the subject property not be listed on the HSI.

Attachments: Trip Report; RQSM Score Sheets; Release Package

File: Non-HSI [Georgia Power - Plant Branch, Putnam County]

LAND PROTECTION BRANCH
RESPONSE AND REMEDIATION PROGRAM
REPORTABLE QUANTITIES SCREENING METHOD

SCORED BY:	Bill Williams	DATE:	11/15/2018
GROUNDWATER PATHWAY SCORE:	8.1	CLEANUP HISTORY: [ ] NO CLEANUP INITIATED AT SITE	
ON-SITE PATHWAY SCORE:	0.0	[X] SOME CLEANUP UNDERWAY AT SITE [ ] CLEANUP HAS BEEN COMPLETED	

EPA ID NUMBER:	GAD00061289				
SITE OR FACILITY NAME:	Georgia Power-Plant Branch				
SITE STREET ADDRESS:	1100 Milledgeville Road				
SITE CITY:	Milledgeville	SITE COUNTY:	Putnam	ZIP CODE:	31061

IF SITE SCORES ABOVE THE THRESHOLD VALUE FOR EITHER PATHWAY, PROVIDE THE FOLLOWING INFORMATION. ALL REGULATED SUBSTANCES DETECTED AT THE SITE SHOULD ALSO BE LISTED ON PAGE 2, EXCLUDING THOSE USED TO SCORE THE SITE.

PROPERTY OWNER:	Georgia Power Company				
MAILING ADDRESS:	241 Ralph McGill Blvd. NE, BIN#10221				
CITY:	Atlanta	STATE:	GA	ZIP CODE:	30308
TELEPHONE NUMBER:	404-506-6235				
SITE CONTACT PERSON:	Robert W. Mitchell, III (Brett)	TITLE:	Environmental Affairs Mgr.		
COMPANY NAME:	Georgia Power Company				
MAILING ADDRESS:	241 Ralph McGill Blvd. NE, BIN#10221				
CITY:	Atlanta	STATE:	GA	ZIP CODE:	30308
TELEPHONE NUMBER:	404-506-7757				
SITE OWNER/OPERATOR:					
COMPANY NAME:					
MAILING ADDRESS:					
CITY:		STATE:		ZIP CODE:	
TELEPHONE NUMBER:					

LIST OF OTHER REGULATED SUBSTANCES AT THE SITE

THIS TABLE SHOULD ONLY BE COMPLETED IF THE SITE IS BEING LISTED ON THE HSI. ALL REGULATED SUBSTANCES AT THE SITE SHOULD BE PRESENTED ON THIS TABLE, EXCEPT THOSE USED TO SCORE THE SITE. NOTE THE CAS NUMBER FOR THE REGULATED SUBSTANCE, AND WHETHER THE SUBSTANCE IS PRESENT IN SOIL AND/OR GROUNDWATER.

CAS NUMBER	REGULATED SUBSTANCE	IN GW?	IN SOIL?

GROUNDWATER PATHWAY

		SCORE	
HAS A RELEASE TO GROUNDWATER OCCURRED? Known (45) Suspected (10) Potential Future (5) (If 45, go to D)		A.	45
SUSCEPTIBILITY RATING: Higher (6) Average (3) Lower (0)		1B.	
PHYSICAL STATE: Stable Solid (0) Unstable Solid (1) Powder/Ash (2) Liquid/Gas/Sludge (3)		2B.	
CONTAINMENT: Very Good (0) Good (1) Fair (2) Poor (3)		C.	
REGULATED SUBSTANCE:	Arsenic	1D.	
TOXICITY: None (1) Low (1) (2) (4) (8) (16)		2D.	16
QUANTITY: (1) (2) (3) (4) (5) (6) (7) (8)		3D.	4
EXPOSURE TO GROUNDWATER RELEASE: (choose only one)		1E.	4
Known release ≥ MCL and know human exposure ≥ MCL	(25)		
Known release ≥ MCL and suspected human exposure	(20)		
Known release, no MCL exists, and know human exposure	(18)		
Known release ≥ MCL, and known human exposure < MCL	(15)		
Known release, no MCL exists, and human exposure is suspected	(12)		
Suspected release and human exposure is suspected	(8)		
Known release ≥ MCL, but no human exposure is suspected	(4)		
Known release, no MCL exists, and no human exposure is suspected	(3)		
Suspected release, but no human exposure is suspected	(2)		
Potential future release	(1)		
Known release less than MCL	(0)		
DISTANCE TO WELL OR SPRING: <1/2 mile (16) 1/2 - 1 mile (9) 1 - 2 miles (4) 2 - 3 miles (1) > 3 miles (0)		2E.	0
GROUNDWATER PATHWAY SCORE:		8.1	

$$Sgw = M \times (2D + 3D) \times (1E + 2E) / 442.8$$

where $M = A + [(1B + 2B) \times C]$

If A = 45, then M = 45

If 2D is unknown, then 2D = 4

If 3D is unknown, then 3D =4

If 1E includes known or suspected human exposure, then 1E + 2E = 16

If 1E = 0, then 2E =1

Note: The denominator of 442.8 normalizes the groundwater score to a value between 0 and 100.

ON-SITE EXPOSURE PATHWAY

ACCESS TO THE SITE: Inaccessible (0) Limited Access (2) Unlimited Access (4)	A.	0
HAS THERE BEEN A RELEASE? Yes (25) Suspected (15) No (0)	B.	25
CONTAINMENT: Soil Releases (very good to poor) (0) (1) (2) (3) (4) (5) Aboveground Releases: (0) (1) (2) (3)	C.	5
REGULATED SUBSTANCE: Arsenic	1D.	
TOXICITY: None (1) Low (1) (2) (4) (8) (16)	2D.	16
QUANTITY: (1) (2) (3) (4) (5) (6) (7) (8)	3D.	4
DISTANCE TO NEAREST RESIDENT INDIVIDUAL: <300' (8) 301-1000' (6) 1001-3000' (4) 3001-5280' (2) > 1 Mile (1)	1E.	4
IS THERE AN ON-SITE SENSITIVE ENVIRONMENT? Yes (1) No (2)	2E.	0
ON-SITE EXPOSURE PATHWAY SCORE:	0.0	

So = A x (B +C) x (2D +3D) x (1E + 2E) / 259.2

If A or B = 0, then So = 0

If 2D is unknown, then 2D = 4

If 3D is unknown, then 3D = 4

Note: The denominator of 259.2 normalizes the score to a value between 0 and 100

Calculated and Printed: 11/15/18 4:00 PM

S:\RDRIVE\BWILLIAMS\NONHSI\Canton Textile Mills\[r

GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION

Richard E. Dunn, Director

Land Protection Branch
2 Martin Luther King, Jr. Drive
Suite 1054, East Tower
Atlanta, Georgia 30334
404-657-8600

TRIP REPORT

November 15, 2018

SITE NAME AND LOCATION: Georgia Power Company-Plant Branch
1100 Milledgeville Road
Milledgeville

COUNTY: Putnam

TRIP BY: Bill Williams,
Environmental Engineer, RRP

DATE OF INVESTIGATION: November 14, 2018

OFFICIALS CONTACTED: Brad Filipovich - Georgia Power
Regina Linch - Georgia Power
Brian Steele – Resolute Environmental

COMMENTS:

I. Background

The Response and Remediation Program received a Release Notification report for the above referenced property on March 20, 2018. The notification indicated a release to soils of benzo(a)pyrene, benzo(a)anthracene, benzo(b)fluoranthene, chrysene, and arsenic at levels exceeding the Appendix I Notification Concentrations (NCs). The notification also indicated a release to groundwater of arsenic and cadmium above NCs. Lead was also detected above NC in groundwater, but they attempt to attribute the lead to a petroleum release. The subject property is the location of Georgia Power's Plant Branch, a former coal-fired steam electrical generating plant. The coal fired units were retired in 2015 and the plant is currently undergoing a complete decommissioning. An electrical substation will be the only remaining operation at the property when decommissioning is complete.

The soil contamination was found in an area that was previously used as a skeet range and the PAHs are being attributed to leaching from fragments of clay pigeons, which used tar pitch as a binder. The arsenic contamination is attributed to historic fill material. Groundwater contamination is being attributed to former coal storage and maintenance operations.

The subject property was previously listed on the Hazardous Site Inventory (HSI), but was de-listed in 2002. The site was able to certify soil and groundwater for residential risk reduction standards in 2002. It appears these newly detected areas of contamination are not associated with the previous HSI site listing and will be evaluated as new releases.

II. Findings

The site is completely fenced and has active security in the form of 24-hour onsite guards and video surveillance. The area of the former skeet range is well within the property line and the nearest resident was located more than 6000 feet from the skeet range area. The notification indicated they were between 1001 and 3000 feet at the River North condominiums. It is assumed that was measured from the Plant

entrance. During the site visit, the consultant for Georgia Power indicated that the areas of soil contamination will be remediated sometime during 2019.

The groundwater wells were visibly confirmed and it was evident that area of groundwater contamination is near the shore of Lake Sinclair. The groundwater flow gradient is steep and directly toward Lake Sinclair, which would act a complete groundwater intercept. There is at least 3000 linear feet of surface water between the location of the groundwater release and any downgradient land that could possibly have a drinking water well. Due to the proximity to Lake Sinclair, a drinking water well survey was not performed and there are no downgradient drinking water wells within 3-miles.

RECOMMENDATIONS/FOLLOW-UP: Evaluate the subject property using the RQSM.

PHOTOGRAPHS: Attached

NUMBER OF SAMPLES TAKEN: None

REVIEWED BY: _____ **DATE:** 11/16/18

File: Non-HSI: [Georgia Power-Plant Branch: Putnam County]

Georgia Power Company
Plant Harllee Branch
1100 Milledgeville Road

Milledgeville

Putnam County

Date: 11/14/2018

Picture: 1 of 8

Photographer: Bill Williams

Response and Remediation Program

Explanation: A security office controls access to the site. The property is completely fenced, has video surveillance, and the property is guarded 24-hours a day. Facing northwest.

Georgia Power Company
Plant Harllee Branch
1100 Milledgeville Road

Milledgeville

Putnam County

Date: 11/14/2018

Picture: 2 of 8

Photographer: Bill Williams

Response and Remediation Program

Explanation: A view of the substation from the parking lot. The area is completely fenced and controlled by a 24-hour manned security office. Facing northwest.

Georgia Power Company
Plant Harllee Branch
1100 Milledgeville Road

Milledgeville

Putnam County

Date: 11/14/2018

Picture: 3 of 8

Photographer: Bill Williams

Response and Remediation Program

Explanation: The entrance to the former skeet range. This is the area where soil contamination was discovered. Facing west.

Georgia Power Company
Plant Harllee Branch
1100 Milledgeville Road

Milledgeville

Putnam County

Date: 11/14/2018

Picture: 4 of 8

Photographer: Bill Williams

Response and Remediation Program

Explanation: The grassy field was part of the skeet range. Samples were collected in this area. Elevated PAHs and arsenic were found in soils.

An excavation/disposal is scheduled for early 2019. Facing west.

Georgia Power Company
Plant Harllee Branch
1100 Milledgeville Road

Milledgeville

Putnam County

Date: 11/14/2018

Picture: 5 of 8

Photographer: Bill Williams

Response and Remediation Program

Explanation: The flags visible in the foreground and along the tree line are thought to be sample locations 57 and 71. Location 57 had elevated PAHs.

Georgia Power Company
Plant Harllee Branch
1100 Milledgeville Road

Milledgeville

Putnam County

Date: 11/14/2018

Picture: 6 of 8

Photographer: Bill Williams

Response and Remediation Program

Explanation: Monitoring well MW-C1-06. This was the location where arsenic and cadmium were detected above NC in groundwater. This area was formerly used for coal storage, but there were also a maintenance shop and fuel ASTs in this area.

Georgia Power Company
Plant Harllee Branch
1100 Milledgeville Road

Milledgeville

Putnam County

Date: 11/14/2018

Picture: 7 of 8

Photographer: Bill Williams

Response and Remediation Program

Explanation: A view of MW-C2-02. This well was had a detection of lead above the NC. This well was also used to determine groundwater flow direction.

The groundwater flow gradient is very steep to the east, directly toward Lake Sinclair. Photo taken facing east.

Georgia Power Company
Plant Harllee Branch
1100 Milledgeville Road

Milledgeville

Putnam County

Date: 11/14/2018

Picture: 8 of 8

Photographer: Bill Williams

Response and Remediation Program

Explanation: A view of piezometer PZ-43. This was also used to determine groundwater flow direction, which is to the east directly toward Lake Sinclair.

Photo taken facing south.

Location of Photos

Roads
State and US Highways
Interstate Highways
Rivers/Streams
Lake/Pond
Swamp/Marsh
Census Block Group Boundaries
Census Block Group with >zero domestic well

Public Supply Well
Household

Georgia Power Plant Branch
1100 Milleggeville Road
Milledgeville, Putnum County

Scale: 1 inch = 1 mile

33 12' 26 83 19' 17

Sources: Wells from USGS GWSI (1999); EPD WRB Non-Municipal Wells (1997); EPD HWMB field surveys (1999); Surface Water Intakes from EPD GSB DR98-27(1996); Roads, Rivers, Wetlands from Georgia DOT (1993); Census data from U.S. Bureau of Census (1

APPENDIX C

Laboratory Reports

GEL Laboratories LLC
a member of The GEL Group INC

September 06, 2023

Joju Abraham
Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308

Re: Branch CCR Groundwater Compliance Upgradient
Work Order: 634447

Dear Joju Abraham:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on August 23, 2023. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. Samples "BRA-BRGWA-2S" "BRA-BRGWA-6S" "BRA-BRAW-5I" and "BRA-BRGWA-2I" did not hold sulfide preservation. *634447001(BRA-BRGWA-2S), 634447003(BRA-BRGWA-5I), 634447004(BRA-BRGWA-6S), 634447005(BRA-BRGWA-2I)*. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Recieved
634447001	BRA-BRGWA-2S	Ground Water	22/08/23 10:06	23/08/23 13:00
634447002	BRA-BRGWA-5S	Ground Water	22/08/23 10:05	23/08/23 13:00
634447003	BRA-BRGWA-5I	Ground Water	22/08/23 10:10	23/08/23 13:00
634447004	BRA-BRGWA-6S	Ground Water	22/08/23 10:15	23/08/23 13:00
634447005	BRA-BRGWA-2I	Ground Water	22/08/23 10:12	23/08/23 13:00

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Prep Methods and Prep Dates

Method	Run Date ID
SW846 3005A	25-AUG-2023
SW846 7470A Prep	24-AUG-2023

Analysis Methods and Analysis Dates

Method	Run Date ID
EPA 300.0	23-AUG-2023
SM 2320B	29-AUG-2023
SM 2540C	25-AUG-2023
SM 2540C	28-AUG-2023
SM 4500-S (2-) D	24-AUG-2023
SW846 3005A/6020B	01-SEP-2023
SW846 3005A/6020B	31-AUG-2023
SW846 7470A	25-AUG-2023

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4504.

Sincerely,

Erin S. Trent

Erin Trent
Project Manager

Purchase Order: GPC82177-0006
Enclosures

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 634447 GEL Work Order: 634447

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL

J Value is estimated

N/A RPD or %Recovery limits do not apply.

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Erin Trent.

Reviewed by Erin S. Trent

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 6, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceUpgradient

Client Sample ID: BRA-BRGWA-2S
Sample ID: 634447001
Matrix: WG
Collect Date: 22-AUG-23 10:06
Receive Date: 23-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		2.14	0.0670	0.200	mg/L		1	HXC1	08/23/23	1637	2481608	1
Fluoride		0.229	0.0330	0.100	mg/L		1					
Nitrate-N		0.218	0.0330	0.100	mg/L		1					
Sulfate		0.526	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/25/23	1221	2482624	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	08/31/23	2333	2482703	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0135	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron	J	0.00738	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		5.02	0.0800	0.200	mg/L	1.00	1					
Chromium	J	0.00921	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000707	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0513	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		4.66	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		0.415	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		3.09	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Manganese		0.0283	0.00100	0.00500	mg/L	1.00	1	PRB	09/01/23	0936	2482703	4
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		36.0	2.38	10.0	mg/L			CH6	08/25/23	1010	2482655	5
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/24/23	1745	2481696	6

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 6, 2023

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater ComplianceUpgradient

Client Sample ID:	BRA-BRGWA-2S	Project:	GPCC00101
Sample ID:	634447001	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		37.1	0.725	2.00	mg/L			JW2	08/29/23	1140	2484392	7
Bicarbonate alkalinity (CaCO3)		37.1	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482702
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/24/23	1200	2482623

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	
6	SM 4500-S (2-) D	
7	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 6, 2023

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater ComplianceUpgradient

Client Sample ID:	BRA-BRGWA-5S	Project:	GPCC00101
Sample ID:	634447002	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	22-AUG-23 10:05		
Receive Date:	23-AUG-23		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		3.37	0.0670	0.200	mg/L		1	HXC1	08/23/23	1707	2481608	1
Fluoride		0.277	0.0330	0.100	mg/L		1					
Nitrate-N		0.203	0.0330	0.100	mg/L		1					
Sulfate		0.540	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/25/23	1222	2482624	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	08/31/23	2337	2482703	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0352	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron	J	0.00764	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		14.9	0.0800	0.200	mg/L	1.00	1					
Chromium	J	0.00472	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000327	0.000300	0.00100	mg/L	1.00	1					
Iron		0.263	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		6.25	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		0.435	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		3.48	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Manganese		0.0105	0.00100	0.00500	mg/L	1.00	1	PRB	09/01/23	0939	2482703	4
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		73.0	2.38	10.0	mg/L			CH6	08/25/23	1010	2482655	5
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/24/23	1747	2481696	6

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 6, 2023

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater ComplianceUpgradient

Client Sample ID:	BRA-BRGWA-5S	Project:	GPCC00101
Sample ID:	634447002	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		68.4	0.725	2.00	mg/L			JW2	08/29/23	1142	2484392	7
Bicarbonate alkalinity (CaCO3)		68.4	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482702
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/24/23	1200	2482623

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	
6	SM 4500-S (2-) D	
7	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 6, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceUpgradient

Client Sample ID: BRA-BRGWA-5I
Sample ID: 634447003
Matrix: WG
Collect Date: 22-AUG-23 10:10
Receive Date: 23-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		3.53	0.0670	0.200	mg/L		1	HXC1	08/23/23	1738	2481608	1
Fluoride		0.289	0.0330	0.100	mg/L		1					
Nitrate-N		0.266	0.0330	0.100	mg/L		1					
Sulfate		1.83	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/25/23	1231	2482624	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	08/31/23	2340	2482703	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0245	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron	J	0.00730	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		14.3	0.0800	0.200	mg/L	1.00	1					
Chromium	J	0.00701	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000474	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0953	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		9.41	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	J	0.000953	0.000200	0.00100	mg/L	1.00	1					
Potassium		0.933	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		4.69	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Manganese	J	0.00104	0.00100	0.00500	mg/L	1.00	1	PRB	09/01/23	0941	2482703	4
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		80.0	2.38	10.0	mg/L			CH6	08/28/23	1403	2482658	5
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/24/23	1748	2481696	6

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Certificate of Analysis

Report Date: September 6, 2023

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater ComplianceUpgradient

Client Sample ID:	BRA-BRGWA-5I	Project:	GPCC00101
Sample ID:	634447003	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		77.2	0.725	2.00	mg/L			JW2	08/29/23	1144	2484392	7
Bicarbonate alkalinity (CaCO3)		77.2	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482702
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/24/23	1200	2482623

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	
6	SM 4500-S (2-) D	
7	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 6, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceUpgradient

Client Sample ID: BRA-BRGWA-6S
Sample ID: 634447004
Matrix: WG
Collect Date: 22-AUG-23 10:15
Receive Date: 23-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		2.34	0.0670	0.200	mg/L		1	HXC1	08/23/23	1809	2481608	1
Fluoride	J	0.0787	0.0330	0.100	mg/L		1					
Nitrate-N		0.646	0.0330	0.100	mg/L		1					
Sulfate		0.467	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/25/23	1236	2482624	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Manganese	J	0.00120	0.00100	0.00500	mg/L	1.00	1	PRB	09/01/23	0943	2482703	3
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	08/31/23	2344	2482703	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0143	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron	J	0.00611	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		3.79	0.0800	0.200	mg/L	1.00	1					
Chromium		0.0132	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		3.48	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		0.607	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		2.11	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		30.0	2.38	10.0	mg/L			CH6	08/28/23	1403	2482658	5
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/24/23	1748	2481696	6

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Certificate of Analysis

Report Date: September 6, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceUpgradient

Client Sample ID: BRA-BRGWA-6S
Sample ID: 634447004
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		36.8	0.725	2.00	mg/L			JW2	08/29/23	1147	2484392	7
Bicarbonate alkalinity (CaCO3)		36.8	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482702
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/24/23	1200	2482623

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	
6	SM 4500-S (2-) D	
7	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 6, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceUpgradient

Client Sample ID: BRA-BRGWA-2I
Sample ID: 634447005
Matrix: WG
Collect Date: 22-AUG-23 10:12
Receive Date: 23-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		1.90	0.0670	0.200	mg/L		1	HXC1	08/23/23	1840	2481608	1
Fluoride		0.267	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate		6.85	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/25/23	1237	2482624	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	08/31/23	2348	2482703	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.00680	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron	J	0.00649	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		12.6	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000707	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0904	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0209	0.00300	0.0100	mg/L	1.00	1					
Magnesium		7.27	0.0100	0.0300	mg/L	1.00	1					
Molybdenum		0.00169	0.000200	0.00100	mg/L	1.00	1					
Potassium		5.25	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		5.26	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Manganese		0.0145	0.00100	0.00500	mg/L	1.00	1	PRB	09/01/23	0945	2482703	4
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		81.0	2.38	10.0	mg/L			CH6	08/28/23	1403	2482658	5
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/24/23	1749	2481696	6

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Certificate of Analysis

Report Date: September 6, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceUpgradient

Client Sample ID: BRA-BRGWA-2I
Sample ID: 634447005
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		71.7	0.725	2.00	mg/L			JW2	08/29/23	1149	2484392	7
Bicarbonate alkalinity (CaCO3)		71.7	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482702
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/24/23	1200	2482623

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	
6	SM 4500-S (2-) D	
7	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

QC Summary

Report Date: September 6, 2023

Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia

Contact: **Joju Abraham**

Workorder: **634447**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography										
Batch 2481608										
QC1205497371 634145003 DUP										
Chloride		78.8		79.7	mg/L	1.1		(0%-20%)	HXC1	08/24/23 15:05
Fluoride		0.719		0.719	mg/L	0.0417		(0%-20%)		08/23/23 20:43
Nitrate-N		10.9		11.0	mg/L	0.894 ^		(+/-2.50)		08/24/23 15:05
Sulfate		37.6		37.5	mg/L	0.306 ^		(+/-10.0)		
QC1205497369 LCS										
Chloride	5.00			4.78	mg/L		95.6	(90%-110%)		08/23/23 23:18
Fluoride	2.50			2.46	mg/L		98.3	(90%-110%)		
Nitrate-N	2.50			2.36	mg/L		94.3	(90%-110%)		
Sulfate	10.0			9.76	mg/L		97.6	(90%-110%)		
QC1205497368 MB										
Chloride			U	ND	mg/L					08/23/23 22:47
Fluoride			U	ND	mg/L					
Nitrate-N			U	ND	mg/L					
Sulfate			U	ND	mg/L					
QC1205497373 634145003 PS										
Chloride	5.00	3.15		8.45	mg/L		106	(90%-110%)		08/24/23 15:36

QC Summary

Workorder: **634447**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography										
Batch 2481608										
Fluoride	2.50	0.719		3.17	mg/L		98	(90%-110%)	HXC1	08/23/23 21:14
Nitrate-N	2.50	0.434		2.85	mg/L		96.5	(90%-110%)		08/24/23 15:36
Sulfate	10.0	1.51		11.3	mg/L		98.4	(90%-110%)		
Metals Analysis - ICPMS										
Batch 2482703										
QC1205499165 LCS										
Antimony	0.0500			0.0492	mg/L		98.4	(80%-120%)	PRB	08/31/23 22:21
Arsenic	0.0500			0.0500	mg/L		99.9	(80%-120%)		
Barium	0.0500			0.0522	mg/L		104	(80%-120%)		
Beryllium	0.0500			0.0527	mg/L		105	(80%-120%)		
Boron	0.100			0.103	mg/L		103	(80%-120%)		
Cadmium	0.0500			0.0502	mg/L		100	(80%-120%)		
Calcium	2.00			1.96	mg/L		98	(80%-120%)		
Chromium	0.0500			0.0515	mg/L		103	(80%-120%)		
Cobalt	0.0500			0.0514	mg/L		103	(80%-120%)		
Iron	2.00			2.02	mg/L		101	(80%-120%)		
Lead	0.0500			0.0518	mg/L		104	(80%-120%)		

QC Summary

Workorder: **634447**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2482703										
Lithium	0.0500			0.0506	mg/L		101	(80%-120%)	PRB	08/31/23 22:21
Magnesium	2.00			1.97	mg/L		98.4	(80%-120%)		
Manganese	0.0500			0.0497	mg/L		99.4	(80%-120%)		09/01/23 08:52
Molybdenum	0.0500			0.0499	mg/L		99.8	(80%-120%)		08/31/23 22:21
Potassium	2.00			1.94	mg/L		97	(80%-120%)		
Selenium	0.0500			0.0493	mg/L		98.7	(80%-120%)		
Sodium	2.00			1.95	mg/L		97.6	(80%-120%)		
Thallium	0.0500			0.0507	mg/L		101	(80%-120%)		
QC1205499164 MB										
Antimony			U	ND	mg/L					08/31/23 22:18
Arsenic			U	ND	mg/L					
Barium			U	ND	mg/L					
Beryllium			U	ND	mg/L					
Boron			U	ND	mg/L					
Cadmium			U	ND	mg/L					
Calcium			U	ND	mg/L					

QC Summary

Workorder: **634447**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2482703										
Chromium			U	ND	mg/L				PRB	08/31/23 22:18
Cobalt			U	ND	mg/L					
Iron			U	ND	mg/L					
Lead			U	ND	mg/L					
Lithium			U	ND	mg/L					
Magnesium			U	ND	mg/L					
Manganese			U	ND	mg/L					09/01/23 08:50
Molybdenum			U	ND	mg/L					08/31/23 22:18
Potassium			U	ND	mg/L					
Selenium			U	ND	mg/L					
Sodium			U	ND	mg/L					
Thallium			U	ND	mg/L					
QC1205499166 634441003 MS										
Antimony	0.0500	U	ND	0.0511	mg/L		102	(75%-125%)		08/31/23 22:36
Arsenic	0.0500	U	ND	0.0528	mg/L		105	(75%-125%)		
Barium	0.0500		0.0268	0.0800	mg/L		106	(75%-125%)		

QC Summary

Workorder: **634447**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2482703											
Beryllium	0.0500	U	ND		0.0531	mg/L		106	(75%-125%)	PRB	08/31/23 22:36
Boron	0.100		1.90		2.08	mg/L		N/A	(75%-125%)		09/01/23 09:00
Cadmium	0.0500	U	ND		0.0511	mg/L		102	(75%-125%)		08/31/23 22:36
Calcium	2.00		83.4		88.8	mg/L		N/A	(75%-125%)		09/01/23 09:00
Chromium	0.0500	U	ND		0.0518	mg/L		103	(75%-125%)		08/31/23 22:36
Cobalt	0.0500		0.00384		0.0554	mg/L		103	(75%-125%)		
Iron	2.00	U	ND		2.06	mg/L		102	(75%-125%)		
Lead	0.0500	U	ND		0.0511	mg/L		102	(75%-125%)		
Lithium	0.0500	U	ND		0.0521	mg/L		102	(75%-125%)		
Magnesium	2.00		18.9		21.3	mg/L		N/A	(75%-125%)		
Manganese	0.0500		3.33		3.48	mg/L		N/A	(75%-125%)		09/01/23 09:00
Molybdenum	0.0500	U	ND		0.0527	mg/L		105	(75%-125%)		08/31/23 22:36
Potassium	2.00		3.52		5.59	mg/L		104	(75%-125%)		
Selenium	0.0500	U	ND		0.0531	mg/L		106	(75%-125%)		
Sodium	2.00		20.7		23.1	mg/L		N/A	(75%-125%)		

QC Summary

Workorder: **634447**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2482703											
Thallium	0.0500	U	ND		0.0503	mg/L		101	(75%-125%)	PRB	08/31/23 22:36
QC1205499167 634441003 MSD											
Antimony	0.0500	U	ND		0.0491	mg/L	4.07	98.1	(0%-20%)		08/31/23 22:39
Arsenic	0.0500	U	ND		0.0508	mg/L	3.79	101	(0%-20%)		
Barium	0.0500		0.0268		0.0757	mg/L	5.49	97.8	(0%-20%)		
Beryllium	0.0500	U	ND		0.0506	mg/L	4.96	101	(0%-20%)		
Boron	0.100		1.90		2.00	mg/L	4.07	N/A	(0%-20%)		09/01/23 09:02
Cadmium	0.0500	U	ND		0.0496	mg/L	2.97	98.7	(0%-20%)		08/31/23 22:39
Calcium	2.00		83.4		84.1	mg/L	5.45	N/A	(0%-20%)		09/01/23 09:02
Chromium	0.0500	U	ND		0.0504	mg/L	2.88	101	(0%-20%)		08/31/23 22:39
Cobalt	0.0500		0.00384		0.0540	mg/L	2.65	100	(0%-20%)		
Iron	2.00	U	ND		2.00	mg/L	2.95	98.6	(0%-20%)		
Lead	0.0500	U	ND		0.0493	mg/L	3.6	98.5	(0%-20%)		
Lithium	0.0500	U	ND		0.0509	mg/L	2.35	99.9	(0%-20%)		
Magnesium	2.00		18.9		20.7	mg/L	2.55	N/A	(0%-20%)		
Manganese	0.0500		3.33		3.35	mg/L	3.62	N/A	(0%-20%)		09/01/23 09:02

QC Summary

Workorder: **634447**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2482703											
Molybdenum	0.0500	U	ND		0.0512	mg/L	2.82	102	(0%-20%)	PRB	08/31/23 22:39
Potassium	2.00		3.52		5.37	mg/L	4.12	92.4	(0%-20%)		
Selenium	0.0500	U	ND		0.0512	mg/L	3.53	102	(0%-20%)		
Sodium	2.00		20.7		22.6	mg/L	2.28	N/A	(0%-20%)		
Thallium	0.0500	U	ND		0.0488	mg/L	3.06	97.5	(0%-20%)		
QC1205499168 634441003 SDILT											
Antimony		U	ND	U	ND	ug/L	N/A		(0%-20%)		08/31/23 22:46
Arsenic		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Barium			26.8		5.04	ug/L	6.03		(0%-20%)		
Beryllium		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Boron			95.1		20.6	ug/L	8.16		(0%-20%)		09/01/23 09:04
Cadmium		U	ND	U	ND	ug/L	N/A		(0%-20%)		08/31/23 22:46
Calcium			4170		869	ug/L	4.2		(0%-20%)		09/01/23 09:04
Chromium		U	ND	U	ND	ug/L	N/A		(0%-20%)		08/31/23 22:46
Cobalt			3.84	J	0.796	ug/L	3.56		(0%-20%)		
Iron		U	ND	U	ND	ug/L	N/A		(0%-20%)		

QC Summary

Workorder: **634447**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2482703										
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)	PRB	08/31/23 22:46
Lithium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Magnesium		18900		3500	ug/L	7.29		(0%-20%)		
Manganese		167		33.7	ug/L	1.09		(0%-20%)		09/01/23 09:04
Molybdenum	U	ND	U	ND	ug/L	N/A		(0%-20%)		08/31/23 22:46
Potassium		3520		680	ug/L	3.4		(0%-20%)		
Selenium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Sodium		20700		3830	ug/L	7.8		(0%-20%)		
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Metals Analysis-Mercury										
Batch 2482624										
QC1205499046 634447002 DUP										
Mercury	U	ND	U	ND	mg/L	N/A			JP2	08/25/23 12:24
QC1205499045 LCS										
Mercury 0.00200				0.00199	mg/L		99.5	(80%-120%)		08/25/23 11:58
QC1205499044 MB										
Mercury			U	ND	mg/L					08/25/23 11:56
QC1205499047 634447002 MS										
Mercury 0.00200	U	ND		0.00199	mg/L		99.5	(75%-125%)		08/25/23 12:26

QC Summary

Workorder: **634447**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis-Mercury											
Batch 2482624											
QC1205499048 634447002 SDILT											
Mercury		U	ND	U	ND	ug/L	N/A		(0%-10%)	JP2	08/25/23 12:27
Solids Analysis											
Batch 2482655											
QC1205499077 634352015 DUP											
Total Dissolved Solids		U	ND	U	ND	mg/L	N/A			CH6	08/25/23 10:10
QC1205499076 LCS											
Total Dissolved Solids	300				301	mg/L		100	(95%-105%)		08/25/23 10:10
QC1205499075 MB											
Total Dissolved Solids				U	ND	mg/L					08/25/23 10:10
Batch 2482658											
QC1205499081 634205010 DUP											
Total Dissolved Solids			400		390	mg/L	2.53		(0%-5%)	CH6	08/28/23 14:03
QC1205499080 LCS											
Total Dissolved Solids	300				301	mg/L		100	(95%-105%)		08/28/23 14:03
QC1205499079 MB											
Total Dissolved Solids				U	ND	mg/L					08/28/23 14:03
Spectrometric Analysis											
Batch 2481696											
QC1205497560 LCS											
Total Sulfide	0.400				0.398	mg/L		99.6	(85%-115%)	JW2	08/24/23 17:36
QC1205497559 MB											
Total Sulfide				U	ND	mg/L					08/24/23 17:36
QC1205497561 634441001 PS											
Total Sulfide	0.400	U	ND		0.363	mg/L		90.8	(75%-125%)		08/24/23 17:37

QC Summary

Workorder: **634447**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Spectrometric Analysis											
Batch 2481696											
QC1205497563 634447001 PS											
Total Sulfide	0.400	U	ND		0.420	mg/L		105	(75%-125%)	JW2	08/24/23 17:46
QC1205497562 634441001 PSD											
Total Sulfide	0.400	U	ND		0.367	mg/L	1.09	91.8	(0%-15%)		08/24/23 17:38
QC1205497564 634447001 PSD											
Total Sulfide	0.400	U	ND		0.412	mg/L	1.92	103	(0%-15%)		08/24/23 17:47
Titration and Ion Analysis											
Batch 2484392											
QC1205502340 634448001 DUP											
Alkalinity, Total as CaCO3			65.8		65.5	mg/L	0.457		(0%-20%)	JW2	08/29/23 11:54
Bicarbonate alkalinity (CaCO3)			65.8		65.5	mg/L	0.457		(0%-20%)		
Carbonate alkalinity (CaCO3)		U	ND	U	ND	mg/L	N/A				
QC1205502342 634643001 DUP											
Alkalinity, Total as CaCO3			80.2		80.4	mg/L	0.249		(0%-20%)		08/29/23 12:16
Bicarbonate alkalinity (CaCO3)			80.2		80.4	mg/L	0.249		(0%-20%)		
Carbonate alkalinity (CaCO3)		U	ND	U	ND	mg/L	N/A				
QC1205502339 LCS											
Alkalinity, Total as CaCO3	50.0				51.8	mg/L		104	(90%-110%)		08/29/23 11:37
QC1205502344 LCS											
Alkalinity, Total as CaCO3	15.0				14.8	mg/L		98.7	(90%-110%)		08/29/23 11:38
QC1205502341 634448001 MS											
Alkalinity, Total as CaCO3	50.0		65.8		118	mg/L		104	(80%-120%)		08/29/23 11:54

QC Summary

Workorder: **634447**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Titration and Ion Analysis											
Batch 2484392											
QC1205502343 634643001 MS											
Alkalinity, Total as CaCO3	50.0	80.2		132	mg/L		103	(80%-120%)	JW2	08/29/23	12:17

Notes:

The Qualifiers in this report are defined as follows:

U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
N	Metals--The Matrix spike sample recovery is not within specified control limits
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
Z	Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
d	5-day BOD--The 2:1 depletion requirement was not met for this sample
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
E	%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
E	General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
FB	Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
R	Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.
B	The target analyte was detected in the associated blank.
e	5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes
J	See case narrative for an explanation

QC Summary

Workorder: **634447**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2482703

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 14
Preparation Batch: 2482702

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
634447001	BRA-BRGWA-2S
634447002	BRA-BRGWA-5S
634447003	BRA-BRGWA-5I
634447004	BRA-BRGWA-6S
634447005	BRA-BRGWA-2I
1205499164	Method Blank (MB)**ICP-MS**
1205499165	Laboratory Control Sample (LCS)
1205499168	634441003(BRA-BRGWC-34SL) Serial Dilution (SD)
1205499166	634441003(BRA-BRGWC-34SS) Matrix Spike (MS)
1205499167	634441003(BRA-BRGWC-34SSD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**
Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 40
Analytical Batch: 2482624

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 40

Preparation Batch: 2482623

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
634447001	BRA-BRGWA-2S
634447002	BRA-BRGWA-5S
634447003	BRA-BRGWA-5I
634447004	BRA-BRGWA-6S
634447005	BRA-BRGWA-2I
1205499044	Method Blank (MB)**CVAA**
1205499045	Laboratory Control Sample (LCS)
1205499048	634447002(BRA-BRGWA-5SL) Serial Dilution (SD)
1205499046	634447002(BRA-BRGWA-5SD) Sample Duplicate (DUP)
1205499047	634447002(BRA-BRGWA-5SS) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

General Chemistry

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 32
Analytical Batch: 2481608

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
634447001	BRA-BRGWA-2S
634447002	BRA-BRGWA-5S
634447003	BRA-BRGWA-5I
634447004	BRA-BRGWA-6S
634447005	BRA-BRGWA-2I
1205497368	Method Blank (MB)
1205497369	Laboratory Control Sample (LCS)
1205497371	634145003(NonSDG) Sample Duplicate (DUP)
1205497373	634145003(NonSDG) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Sample Dilutions
The following samples 1205497371 (Non SDG 634145003DUP) and 1205497373 (Non SDG 634145003PS) were diluted because target analyte concentrations exceeded the calibration range. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 21
Analytical Batch: 2482655

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
634447001	BRA-BRGWA-2S
634447002	BRA-BRGWA-5S
1205499075	Method Blank (MB)
1205499076	Laboratory Control Sample (LCS)
1205499077	634352015(NonSDG) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 21
Analytical Batch: 2482658

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
634447003	BRA-BRGWA-5I
634447004	BRA-BRGWA-6S
634447005	BRA-BRGWA-2I
1205499079	Method Blank (MB)
1205499080	Laboratory Control Sample (LCS)
1205499081	634205010(NonSDG) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **Sulfide, Total**
Analytical Method: SM 4500-S (2-) D
Analytical Procedure: GL-GC-E-052 REV# 13
Analytical Batch: 2481696

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
634447001	BRA-BRGWA-2S
634447002	BRA-BRGWA-5S
634447003	BRA-BRGWA-5I
634447004	BRA-BRGWA-6S
634447005	BRA-BRGWA-2I
1205497559	Method Blank (MB)
1205497560	Laboratory Control Sample (LCS)
1205497561	634441001(BRA-BRGWC-33S) Post Spike (PS)
1205497562	634441001(BRA-BRGWC-33S) Post Spike Duplicate (PSD)
1205497563	634447001(BRA-BRGWA-2S) Post Spike (PS)
1205497564	634447001(BRA-BRGWA-2S) Post Spike Duplicate (PSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **Alkalinity**
Analytical Method: SM 2320B
Analytical Procedure: GL-GC-E-033 REV# 15
Analytical Batch: 2484392

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
634447001	BRA-BRGWA-2S
634447002	BRA-BRGWA-5S
634447003	BRA-BRGWA-5I
634447004	BRA-BRGWA-6S
634447005	BRA-BRGWA-2I
1205502339	Laboratory Control Sample (LCS)
1205502340	634448001(BRA-PZ-79) Sample Duplicate (DUP)
1205502341	634448001(BRA-PZ-79) Matrix Spike (MS)
1205502342	634643001(BRA-PZ-79) Sample Duplicate (DUP)
1205502343	634643001(BRA-PZ-79) Matrix Spike (MS)
1205502344	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this

report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

634447 634450

Page: _____ of _____
Project # _____
GEL Quote #: _____
COC Number (1): _____
PO Number:

GEL Laboratories LLC
gel.com
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power | Phone # 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - Upgradient | Fax #
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: J. Burfeind ACC | Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS, NO3 EPA 300, SM 2540C	Total, Carb, & Bicarb Alk SM 2320B	NI Metals * EPA 6020, 6010, 7470	NI Radium 226 & 228 SW-846 9315, 9320	Sulfide SM 4500	<-- Preservative Type (6)
BRA- BRGWA-25	08/22/23	1006	G	N	WG			8	✓	✓	✓	✓	✓	
BRA- BRGWA-5S	08/22/23	1005	G	N	WG			8	✓	✓	✓	✓	✓	
BRA- BRGWA-5I	08/22/23	1010	G	N	WG			8	✓	✓	✓	✓	✓	
BRA- BRGWA-6S	08/22/23	1015	G	N	WG			8	✓	✓	✓	✓	✓	
BRA- BRGWA-2I	08/22/23	1012	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-														
BRA-														
BRA-														
BRA-														
BRA-														

Comments
Note: extra sample is required for sample specific QC
Task_Code: BRA-CCR-ASSMT-2023S2

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	8/23/23	0732	1	8/23/23	832
2	8/23/23	1:00	2	8/23/23	1300
3			3		

TAT Requested: Normal: x Rush: _____ Specify: _____ (Subject to Surcharge)

Fax Results: [ ] Yes [x] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [x] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] Yes [ ] No *Cooler Temp:* _____ °C

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.

4.) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. *8260B* - 3, *6010B/7470A* - 1).

6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic Hg= Mercury
Ba = Barium Se= Selenium
Cd = Cadmium Ag= Silver
Cr = Chromium MR= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

~~634447~~ 634643
634448 634447
634443 634450
634441 634444
634446

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: CCP	SDG/AR/COC/Work Order: ET
Received By: MVH	Date Received: 8-23-2023
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other
	Cooler 2-3°C Cooler 4-1°C Cooler 6-1°C Cooler 1-2°C Cooler 3-1°C Cooler 5-2°C

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A) Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM/uR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: Wet Ice Ice Packs Dry Ice None Other: *all temperatures are recorded in Celsius TEMP:___
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR2-21 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?				Sample ID's and containers Affected: BRA-D2-G11, BRA-BRGWA-51, BRA-BRGWA-23S, If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):
BRA-D2-BS, BRA-BRGWA-2S, BRA-BRGWA-6S, BRA-BRGWC-32S, BRA-BRGWA-21, BRA-BRGWC-37S, BRA-BRGWC-34S, BRA-BRGWC-30I Sulfide samples didnt hold proper preservation.

PM (or PMA) review: Initials AT Date 8/25/23 Page 1 of 1

GL-CHL-SR-001 Rev 7

Amanda Turner

From: Abraham, Joju <JABRAHAM@SOUTHERNCO.COM>
Sent: Friday, August 25, 2023 8:52 AM
To: Amanda Turner; Jurinko, Kristen Nichole; Smilley, Michael Jay; Gangi, Noelia S.; Midkiff, Laura B.
Cc: Team Trent
Subject: RE: Samples did not hold preservation (634441, 634443, 634444, 634446, 634447, 634450)

[EXTERNAL EMAIL] DO NOT CLICK links or attachments unless you recognize the sender and know the content is safe.

Re-preserve and analyze for sulfide in all samples.

JA

From: Amanda Turner <Amanda.Turner@gel.com>
Sent: Friday, August 25, 2023 8:29 AM
To: Abraham, Joju <JABRAHAM@SOUTHERNCO.COM>; Jurinko, Kristen Nichole <KNJURINK@SOUTHERNCO.COM>; Smilley, Michael Jay <MJSMILLE@SOUTHERNCO.COM>; Gangi, Noelia S. <NSMUSKUS@SOUTHERNCO.COM>; Midkiff, Laura B. <lbmidkif@southernco.com>
Cc: Team Trent <Team.Trent@gel.com>
Subject: Samples did not hold preservation (634441, 634443, 634444, 634446, 634447, 634450)

Good morning,

I wanted to notify you of the following preservation issues. These samples did not hold proper sulfide preservation. Please advise.

"BRA-GWC-34S" "BRA-BRGWC-37S" "BRA-PZ-13S" on work orders 634441 and 634443
“BRA-BRGWC-32S” “BRA-BRGWC-30I” "BRA-PZ-61I" "BRA-BRGWA-23S" on work orders 634444 and 634446
"BRA-BRGWA-2S" "BRA-BRGWA-6S" "BRA-BRGWA-2I" "BRA-BRAW-5I" on work orders 634447 and 634450

See attachments for reference.

Thank you!
Amanda

Amanda Turner
Project Manager Assistant
GEL Laboratories LLC EST. 1981
2040 Savage Road, Charleston, SC 29407
Office Main: 843.556.8171 | Fax: 843.766.1178
E-Mail: amanda.turner@gel.com | Website: www.gel.com [gel.com]
Analytical Testing
[gellaboratories.com] [linkedin.com]

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List of current GEL Certifications as of 06 September 2023

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122023-4
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2022-160
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-22-20
Utah NELAP	SC000122022-37
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

September 22, 2023

Joju Abraham
Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308

Re: Branch CCR Groundwater Compliance Upgradient-R
Work Order: 634450

Dear Joju Abraham:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on August 23, 2023. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Recieved
634450001	BRA-BRGWA-2S	Ground Water	22/08/23 10:06	23/08/23 13:00
634450002	BRA-BRGWA-5S	Ground Water	22/08/23 10:05	23/08/23 13:00
634450003	BRA-BRGWA-5I	Ground Water	22/08/23 10:10	23/08/23 13:00
634450004	BRA-BRGWA-6S	Ground Water	22/08/23 10:15	23/08/23 13:00
634450005	BRA-BRGWA-2I	Ground Water	22/08/23 10:12	23/08/23 13:00

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Prep Methods and Prep Dates

Not Applicable

Analysis Methods and Analysis Dates

Method	Run Date ID
Calculation	22-SEP-2023
EPA 903.1 Modified	20-SEP-2023
EPA 904.0/SW846 9320 Modified	05-SEP-2023
EPA 904.0/SW846 9320 Modified	22-SEP-2023

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4504.

Sincerely,

Erin Trent
Project Manager

Purchase Order: GPC82177-0006
Enclosures

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 634450 GEL Work Order: 634450

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Erin Trent.

Reviewed by Erin S. Trent

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 22, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceUpgradient-R

Client Sample ID: BRA-BRGWA-2S
Sample ID: 634450001
Matrix: WG
Collect Date: 22-AUG-23
Receive Date: 23-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.216	+/-0.967	1.76	+/-0.969	3.00	pCi/L			JE1	09/22/23	0847	2494433	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	0.592	+/-0.998	1.76	+/-1.00		pCi/L			NXL1	09/22/23	1016	2488604	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.377	+/-0.246	0.301	+/-0.257	1.00	pCi/L			LXP1	09/20/23	0852	2482017	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2494433	91.3	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 22, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceUpgradient-R

Client Sample ID: BRA-BRGWA-5S
Sample ID: 634450002
Matrix: WG
Collect Date: 22-AUG-23
Receive Date: 23-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.19	+/-1.05	1.70	+/-1.09	3.00	pCi/L			JE1	09/22/23	0847	2494433	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	1.31	+/-1.06	1.70	+/-1.11		pCi/L			NXL1	09/22/23	1016	2488604	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.119	+/-0.181	0.320	+/-0.183	1.00	pCi/L			LXP1	09/20/23	0852	2482017	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2494433	82.3	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 22, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceUpgradient-R

Client Sample ID: BRA-BRGWA-5I
Sample ID: 634450003
Matrix: WG
Collect Date: 22-AUG-23
Receive Date: 23-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.862	+/-0.810	1.30	+/-0.839	3.00	pCi/L			JE1	09/22/23	0847	2494433	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		1.36	+/-0.850	1.30	+/-0.884		pCi/L			NXL1	09/22/23	1016	2488604	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.501	+/-0.260	0.308	+/-0.277	1.00	pCi/L			LXP1	09/20/23	0852	2482017	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2494433	79.1	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 22, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceUpgradient-R

Client Sample ID: BRA-BRGWA-6S
Sample ID: 634450004
Matrix: WG
Collect Date: 22-AUG-23
Receive Date: 23-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.62	+/-1.32	2.15	+/-1.39	3.00	pCi/L			JE1	09/22/23	0847	2494433	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	1.89	+/-1.34	2.15	+/-1.41		pCi/L			NXL1	09/22/23	1016	2488604	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.271	+/-0.238	0.364	+/-0.243	1.00	pCi/L			LXP1	09/20/23	0852	2482017	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2494433	90	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 22, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceUpgradient-R

Client Sample ID: BRA-BRGWA-2I
Sample ID: 634450005
Matrix: WG
Collect Date: 22-AUG-23
Receive Date: 23-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.367	+/-0.729	1.31	+/-0.735	3.00	pCi/L			JE1	09/22/23	0847	2494433	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	0.857	+/-0.777	1.31	+/-0.788		pCi/L			NXL1	09/22/23	1016	2488604	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.490	+/-0.269	0.294	+/-0.284	1.00	pCi/L			LXP1	09/20/23	0852	2482017	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2494433	87.2	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

Product: **Radium-226+Radium-228 Calculation**
Analytical Method: Calculation
Analytical Procedure: GL-RAD-D-003 REV# 45
Analytical Batch: 2488604

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
634450001	BRA-BRGWA-2S
634450002	BRA-BRGWA-5S
634450003	BRA-BRGWA-5I
634450004	BRA-BRGWA-6S
634450005	BRA-BRGWA-2I

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **GFPC Ra228, Liquid**
Analytical Method: EPA 904.0/SW846 9320 Modified
Analytical Procedure: GL-RAD-A-063 REV# 5
Analytical Batch: 2494433

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
634450001	BRA-BRGWA-2S
634450002	BRA-BRGWA-5S
634450003	BRA-BRGWA-5I
634450004	BRA-BRGWA-6S
634450005	BRA-BRGWA-2I
1205520855	Method Blank (MB)
1205520856	634443001(BRA-BRGWC-33S) Sample Duplicate (DUP)
1205520857	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where

applicable, with the following exceptions.

Quality Control (QC) Information

Method Blank Criteria
The blank result (See Below) is greater than the MDC but less than the required detection limit.

Sample	Analyte	Value
1205520855 (MB)	Radium-228	Result: 1.38 pCi/L > MDA: 1.13 pCi/L <= RDL: 3.00 pCi/L

Technical Information

Sample Re-prep/Re-analysis
Samples were reprepped due to high relative percent difference/relative error ratio. The re-analysis is being reported.

Product: **Lucas Cell, Ra226, Liquid**
Analytical Method: EPA 903.1 Modified
Analytical Procedure: GL-RAD-A-008 REV# 15
Analytical Batch: 2482017

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
634450001	BRA-BRGWA-2S
634450002	BRA-BRGWA-5S
634450003	BRA-BRGWA-5I
634450004	BRA-BRGWA-6S
634450005	BRA-BRGWA-2I
1205498037	Method Blank (MB)
1205498038	634443001(BRA-BRGWC-33S) Sample Duplicate (DUP)
1205498039	634443001(BRA-BRGWC-33S) Matrix Spike (MS)
1205498040	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments
The matrix spike, 1205498039 (BRA-BRGWC-33SMS), aliquot was reduced to conserve sample volume.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

QC Summary

Client : **Georgia Power Company, Southern Company**
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia

Contact: **Joju Abraham**

Workorder: **634450**

Report Date: September 22, 2023

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gas Flow										
Batch 2494433										
QC1205520856 634443001 DUP										
Radium-228	U	0.119	U	1.16	pCi/L	0		N/A	JE1	09/22/2308:46
	Uncert:	+/-0.702		+/-0.838						
	TPU:	+/-0.702		+/-0.891						
QC1205520857 LCS										
Radium-228	75.6			76.2	pCi/L		101	(75%-125%)	JE1	09/22/2308:46
	Uncert:			+/-4.33						
	TPU:			+/-19.9						
QC1205520855 MB										
Radium-228				1.38	pCi/L				JE1	09/22/2308:46
	Uncert:			+/-0.802						
	TPU:			+/-0.875						
Rad Ra-226										
Batch 2482017										
QC1205498038 634443001 DUP										
Radium-226	U	0.401	U	0.170	pCi/L	0		N/A	LXP1	09/20/2309:26
	Uncert:	+/-0.326		+/-0.249						
	TPU:	+/-0.337		+/-0.251						
QC1205498040 LCS										
Radium-226	26.9			33.3	pCi/L		124	(75%-125%)	LXP1	09/20/2309:26
	Uncert:			+/-2.02						
	TPU:			+/-5.55						
QC1205498037 MB										
Radium-226			U	0.142	pCi/L				LXP1	09/20/2309:26
	Uncert:			+/-0.184						
	TPU:			+/-0.188						
QC1205498039 634443001 MS										
Radium-226	137 U	0.401		103	pCi/L		75.1	(75%-125%)	LXP1	09/20/2309:26
	Uncert:	+/-0.326		+/-7.23						
	TPU:	+/-0.337		+/-17.8						

Notes:

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

The Qualifiers in this report are defined as follows:

U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported

QC Summary

Workorder: **634450**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time

UI	Gamma Spectroscopy--Uncertain identification
BD	Results are either below the MDC or tracer recovery is low
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
M	M if above MDC and less than LLD
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
FA	Failed analysis.
UJ	Gamma Spectroscopy--Uncertain identification
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
K	Analyte present. Reported value may be biased high. Actual value is expected to be lower.
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.
L	Analyte present. Reported value may be biased low. Actual value is expected to be higher.
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
**	Analyte is a Tracer compound
M	REMP Result > MDC/CL and < RDL
J	See case narrative for an explanation

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
** Indicates analyte is a surrogate/tracer compound.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptence criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

634447 634450

Page: _____ of _____
Project # _____
GEL Quote #: _____
COC Number (1): _____
PO Number:

GEL Laboratories LLC
gel.com
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power | Phone # 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - Upgradient | Fax #
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: D. Brayfield ACC | Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS, NO3 EPA 300, SM 2540C	Total, Carb, & Bicarb Alk SM 2320B	NI Metals * EPA 6020, 6010, 7470	NI Radium 226 & 228 SW-846 9315, 9320	Sulfide SM 4500	<-- Preservative Type (6)
BRA- BRGWA-25	08/22/23	1006	G	N	WG			8	✓	✓	✓	✓	✓	
BRA- BRGWA-5S	08/22/23	1005	G	N	WG			8	✓	✓	✓	✓	✓	
BRA- BRGWA-5I	08/22/23	1010	G	N	WG			8	✓	✓	✓	✓	✓	
BRA- BRGWA-6S	08/22/23	1015	G	N	WG			8	✓	✓	✓	✓	✓	
BRA- BRGWA-2I	08/22/23	1012	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-														
BRA-														
BRA-														
BRA-														
BRA-														

Comments
Note: extra sample is required for sample specific QC
Task_Code: BRA-CCR-ASSMT-2023S2

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1		8/23/23	0732		8/23/23	832
2		8/23/23	1:00		8.23.23	1300
3						

TAT Requested: Normal: x Rush: _____ Specify: _____ (Subject to Surcharge)

Fax Results: [ ] Yes [x] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [x] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg

For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No *Cooler Temp:* _____ °C

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.

4.) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. *8260B* - 3, *6010B/7470A* - 1).

6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic Hg= Mercury
Ba = Barium Se= Selenium
Cd = Cadmium Ag= Silver
Cr = Chromium MR= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

634444 634643
634448 634447
634443 634450
634441 634444
634446

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: CCP

SDG/AR/COC/Work Order: ET

Received By: MVH

Date Received: 08-23-2023

Carrier and Tracking Number — Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other

Cooler 2-3°C Cooler 4-1°C Cooler 6-1°C
Cooler 1-2°C Cooler 3-1°C Cooler 5-2°C

Suspected Hazard Information	Yes	No	
			*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A) Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM/mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: Wet Ice Ice Packs Dry Ice None Other: *all temperatures are recorded in Celsius TEMP:___
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR2-21 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?			✓	Sample ID's and Containers Affected: BRA-P2-G11, BRA-BRGWA-51, BRA-BRGWA-23S, If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___ (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___ (If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):
BRA-P2-13S, BRA-BRGWA-2S, BRA-BRGWA-6S, BRA-BRGWC-32S, BRA-BRGWA-21, BRA-BRGWC-37S, BRA-BRGWC-34S, BRA-BRGWC-30I Sulfide samples didn't hold proper preservation.

PM (or PMA) review: Initials AT Date 8/25/23 Page 1 of 1

GL-CHL-SR-001 Rev 7

List of current GEL Certifications as of 22 September 2023

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122023-4
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2022-160
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-23-21
Utah NELAP	SC000122022-37
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

September 08, 2023

Joju Abraham
Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308

Re: Branch CCR Groundwater Compliance APBCD
Work Orders: 634650,634444 and 634768

Dear Joju Abraham:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on August 23, 2023, August 24, 2023 and August 25, 2023. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. Samples "BRA-PZ-51I" "BRA-PZ-60I" "BRA-PZ-58I" "BRA-PZ-63I" "BRA-PZ-64I" "BRA-PZ-68D" "BRA-APBCD-FD-02" "BRA-PZ-50D" "BRA-BRGWC-50" "BRA-PZ-59I" containers for sodium hydroxide/zinc acetate did not hold preservation. Samples were preserved upon receipt and placed on a 24 hour preservation hold. *634650001(BRA-PZ-51I), 634650002(BRA-PZ-58I), 634650003(BRA-PZ-59I), 634650004(BRA-PZ-60I), 634650005(BRA-PZ-63I), 634650006(BRA-PZ-64I), 634650007(BRA-PZ-68D), 634650010(BRA-APBCD-FD-02), 634650011(BRA-BRGWC-50), 634650014(BRA-PZ-50D)*. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Recieved
634444001	BRA-PZ-57I	Ground Water	21/08/23 17:55	23/08/23 13:00
634444002	BRA-PZ-65I	Ground Water	21/08/23 17:45	23/08/23 13:00
634444003	BRA-BRGWA-23S	Ground Water	22/08/23 12:40	23/08/23 13:00
634444004	BRA-BRGWC-30I	Ground Water	22/08/23 15:22	23/08/23 13:00
634444005	BRA-BRGWC-32S	Ground Water	22/08/23 14:20	23/08/23 13:00
634444006	BRA-PZ-61I	Ground Water	22/08/23 16:15	23/08/23 13:00
634444007	BRA-APBCD-FB-01	Water	22/08/23 14:00	23/08/23 13:00
634650001	BRA-PZ-51I	Ground Water	23/08/23 15:00	24/08/23 12:43
634650002	BRA-PZ-58I	Ground Water	23/08/23 15:10	24/08/23 12:43
634650003	BRA-PZ-59I	Ground Water	23/08/23 11:40	24/08/23 12:43
634650004	BRA-PZ-60I	Ground Water	23/08/23 13:25	24/08/23 12:43
634650005	BRA-PZ-63I	Ground Water	23/08/23 16:30	24/08/23 12:43
634650006	BRA-PZ-64I	Ground Water	23/08/23 10:55	24/08/23 12:43

634650007	BRA-PZ-68D	Ground Water	23/08/23 16:08	24/08/23 12:43
634650008	BRA-APBCD-FB-02	Water	23/08/23 14:50	24/08/23 12:43
634650009	BRA-APBCD-FD-01	Ground Water	23/08/23 12:00	24/08/23 12:43
634650010	BRA-APBCD-FD-02	Ground Water	23/08/23 12:00	24/08/23 12:43
634650011	BRA-BRGWC-50	Ground Water	23/08/23 11:00	24/08/23 12:43
634650012	BRA-APBCD-EB-04	Water	23/08/23 11:35	24/08/23 12:43
634650013	BRA-PZ-44	Ground Water	23/08/23 16:40	24/08/23 12:43
634650014	BRA-PZ-50D	Ground Water	23/08/23 12:30	24/08/23 12:43
634768001	BRA-APBCD-FD-03	Ground Water	24/08/23 12:00	25/08/23 08:57
634768002	BRA-APBCD-EB-05	Ground Water	24/08/23 09:55	25/08/23 08:57
634768003	BRA-BRGWC-27I	Ground Water	24/08/23 12:25	25/08/23 08:57
634768004	BRA-BRGWC-45	Ground Water	24/08/23 12:06	25/08/23 08:57
634768005	BRA-PZ-75I	Ground Water	24/08/23 10:51	25/08/23 08:57
634768006	BRA-PZ-74I	Ground Water	24/08/23 14:15	25/08/23 08:57
634768007	BRA-BRGWC-29I	Ground Water	24/08/23 15:20	25/08/23 08:57
634768008	BRA-PZ-51D	Ground Water	24/08/23 11:00	25/08/23 08:57
634768009	BRA-APBCD-FB-03	Ground Water	24/08/23 12:55	25/08/23 08:57
634768010	BRA-APBCD-EB-06	Ground Water	24/08/23 14:00	25/08/23 08:57
634768011	BRA-BRGWC-52I	Ground Water	24/08/23 13:05	25/08/23 08:57
634768012	BRA-BRGWC-47	Ground Water	24/08/23 14:45	25/08/23 08:57
634768013	BRA-BRGWC-25I	Ground Water	24/08/23 16:47	25/08/23 08:57

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Prep Methods and Prep Dates

Method	Run Date ID
SW846 3005A	25-AUG-2023
SW846 3005A	29-AUG-2023
SW846 7470A Prep	24-AUG-2023
SW846 7470A Prep	28-AUG-2023

Analysis Methods and Analysis Dates

Method	Run Date ID
EPA 300.0	23-AUG-2023
EPA 300.0	24-AUG-2023
EPA 300.0	25-AUG-2023
EPA 300.0	26-AUG-2023
SM 2320B	01-SEP-2023
SM 2320B	24-AUG-2023
SM 2540C	25-AUG-2023
SM 2540C	29-AUG-2023
SM 2540C	30-AUG-2023
SM 4500-S (2-) D	24-AUG-2023
SM 4500-S (2-) D	25-AUG-2023
SM 4500-S (2-) D	28-AUG-2023
SW846 3005A/6020B	01-SEP-2023
SW846 3005A/6020B	06-SEP-2023
SW846 3005A/6020B	07-SEP-2023
SW846 3005A/6020B	08-SEP-2023
SW846 3005A/6020B	31-AUG-2023
SW846 7470A	25-AUG-2023
SW846 7470A	29-AUG-2023

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4504.

Sincerely,

Amanda Turner for
Erin Trent
Project Manager

Purchase Order: GPC82177-0006
Enclosures

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 634650 GEL Work Order: 634650

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL

J Value is estimated

N/A RPD or %Recovery limits do not apply.

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Erin Trent.

Reviewed by Amanda Tew

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 634768 GEL Work Order: 634768

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL

J Value is estimated

N/A RPD or %Recovery limits do not apply.

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Erin Trent.

Reviewed by Amanda Tew

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 634444 GEL Work Order: 634444

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL

J Value is estimated

N/A RPD or %Recovery limits do not apply.

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Erin Trent.

Reviewed by Amanda Tew

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 8, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-PZ-51I
Sample ID: 634650001
Matrix: WG
Collect Date: 23-AUG-23 15:00
Receive Date: 24-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		9.43	0.0670	0.200	mg/L		1	LXA2	08/24/23	2002	2482641	1
Fluoride	J	0.0744	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate		1200	13.3	40.0	mg/L		100	LXA2	08/25/23	1742	2482641	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1108	2483666	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/08/23	1317	2482707	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0149	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	J	0.000679	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.0259	0.000300	0.00100	mg/L	1.00	1					
Iron		0.136	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0221	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		11.2	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		43.6	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.430	0.0260	0.0750	mg/L	1.00	5	PRB	09/08/23	1131	2482707	5
Calcium		217	0.400	1.00	mg/L	1.00	5					
Magnesium		133	0.0500	0.150	mg/L	1.00	5					
Manganese		49.9	0.100	0.500	mg/L	1.00	100	PRB	09/08/23	1147	2482707	6
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1860	4.76	20.0	mg/L			CH6	08/29/23	1603	2484234	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/28/23	1257	2483779	8

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Certificate of Analysis

Report Date: September 8, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-PZ-51I
Sample ID: 634650001
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		23.5	0.725	2.00	mg/L			JW2	09/01/23	1044	2486265	9
Bicarbonate alkalinity (CaCO3)		23.5	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483665
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482706

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 4500-S (2-) D	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 8, 2023

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-PZ-58I	Project:	GPCC00101
Sample ID:	634650002	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	23-AUG-23 15:10		
Receive Date:	24-AUG-23		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		1.10	0.0330	0.100	mg/L		1	LXA2	08/24/23	2033	2482641	1
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Chloride		11.0	0.335	1.00	mg/L		5	LXA2	08/25/23	1844	2482641	2
Sulfate		949	13.3	40.0	mg/L		100	LXA2	08/25/23	1813	2482641	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1113	2483666	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/08/23	1339	2482707	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0173	0.000670	0.00400	mg/L	1.00	1					
Cadmium		0.00453	0.000300	0.00100	mg/L	1.00	1					
Lead	J	0.000860	0.000500	0.00200	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	J	0.00494	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1	PRB	09/08/23	0250	2482707	6
Lithium		0.0468	0.00300	0.0100	mg/L	1.00	1					
Potassium		7.79	0.0800	0.300	mg/L	1.00	1					
Manganese		31.4	0.100	0.500	mg/L	1.00	100	PRB	09/08/23	1209	2482707	7
Beryllium		0.0328	0.00100	0.00250	mg/L	1.00	5	PRB	09/08/23	1206	2482707	8
Boron		0.429	0.0260	0.0750	mg/L	1.00	5					
Calcium		162	0.400	1.00	mg/L	1.00	5					
Cobalt		0.556	0.00150	0.00500	mg/L	1.00	5					
Iron		52.8	0.165	0.500	mg/L	1.00	5					
Magnesium		85.8	0.0500	0.150	mg/L	1.00	5					
Sodium		34.7	0.400	1.25	mg/L	1.00	5					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1570	4.76	20.0	mg/L			CH6	08/29/23	1603	2484234	9
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/28/23	1257	2483779	10

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Certificate of Analysis

Report Date: September 8, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-PZ-58I
Sample ID: 634650002
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	09/01/23	1046	2486265	11
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482706
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483665

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SM 2540C	
10	SM 4500-S (2-) D	
11	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 8, 2023

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-PZ-59I	Project:	GPCC00101
Sample ID:	634650003	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	23-AUG-23 11:40		
Receive Date:	24-AUG-23		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/28/23	1258	2483779	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-S (2-) D	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 8, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-PZ-60I
Sample ID: 634650004
Matrix: WG
Collect Date: 23-AUG-23 13:25
Receive Date: 24-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		1.32	0.0330	0.100	mg/L		1	LXA2	08/24/23	2104	2482641	1
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate		1830	26.6	80.0	mg/L		200	LXA2	08/25/23	1914	2482641	2
Chloride		25.0	0.670	2.00	mg/L		10	LXA2	08/25/23	1945	2482641	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1115	2483666	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Beryllium		0.0670	0.000200	0.000500	mg/L	1.00	1	PRB	09/08/23	1450	2482707	5
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1	PRB	09/08/23	0253	2482707	6
Iron		1.60	0.0330	0.100	mg/L	1.00	1					
Lithium		0.0936	0.00300	0.0100	mg/L	1.00	1					
Manganese		175	1.00	5.00	mg/L	1.00	1000	PRB	09/08/23	1215	2482707	7
Boron		0.300	0.0520	0.150	mg/L	1.00	10	PRB	09/08/23	1212	2482707	8
Calcium		294	0.800	2.00	mg/L	1.00	10					
Cobalt		3.79	0.00300	0.0100	mg/L	1.00	10					
Magnesium		193	0.100	0.300	mg/L	1.00	10					
Potassium		13.8	0.800	3.00	mg/L	1.00	10					
Sodium		65.3	0.800	2.50	mg/L	1.00	10					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/08/23	1342	2482707	9
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0232	0.000670	0.00400	mg/L	1.00	1					
Cadmium		0.0149	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	J	0.00430	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		2880	23.8	100	mg/L			CH6	08/29/23	1603	2484234	10
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/28/23	1258	2483779	11

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Certificate of Analysis

Report Date: September 8, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-PZ-60I
Sample ID: 634650004
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	09/01/23	1047	2486265	12
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482706
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483665

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SW846 3005A/6020B	
10	SM 2540C	
11	SM 4500-S (2-) D	
12	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 8, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-PZ-63I
Sample ID: 634650005
Matrix: WG
Collect Date: 23-AUG-23 16:30
Receive Date: 24-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		6.81	0.0670	0.200	mg/L		1	JLD1	08/24/23	1833	2482649	1
Fluoride		0.252	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate		294	3.33	10.0	mg/L		25	JLD1	08/25/23	0358	2482649	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1116	2483666	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/08/23	1345	2482707	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0221	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Molybdenum	J	0.000539	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1	PRB	09/08/23	0257	2482707	5
Cobalt		0.0309	0.000300	0.00100	mg/L	1.00	1					
Iron		1.18	0.0330	0.100	mg/L	1.00	1					
Lithium	J	0.00516	0.00300	0.0100	mg/L	1.00	1					
Potassium		7.62	0.0800	0.300	mg/L	1.00	1					
Beryllium	U	ND	0.00200	0.00500	mg/L	1.00	10	PRB	09/08/23	1218	2482707	6
Boron		0.706	0.0520	0.150	mg/L	1.00	10					
Calcium		56.8	0.800	2.00	mg/L	1.00	10					
Magnesium		37.7	0.100	0.300	mg/L	1.00	10					
Manganese		6.97	0.0100	0.0500	mg/L	1.00	10					
Sodium		18.5	0.800	2.50	mg/L	1.00	10					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		503	2.38	10.0	mg/L			CH6	08/29/23	1603	2484234	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/28/23	1259	2483779	8

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Certificate of Analysis

Report Date: September 8, 2023

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-PZ-63I	Project:	GPCC00101
Sample ID:	634650005	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		29.1	0.725	2.00	mg/L			JW2	09/01/23	1049	2486265	9
Bicarbonate alkalinity (CaCO3)		29.1	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482706
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483665

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 4500-S (2-) D	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 8, 2023

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-PZ-64I	Project:	GPCC00101
Sample ID:	634650006	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	23-AUG-23 10:55		
Receive Date:	24-AUG-23		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		0.135	0.0330	0.100	mg/L		1	LXA2	08/24/23	1932	2482641	1
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate		2550	26.6	80.0	mg/L		200	LXA2	08/25/23	2118	2482641	2
Chloride		36.5	1.34	4.00	mg/L		20	LXA2	08/25/23	2149	2482641	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1118	2483666	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Cobalt		10.6	0.300	1.00	mg/L	1.00	1000	PRB	09/08/23	1224	2482707	5
Manganese		380	1.00	5.00	mg/L	1.00	1000					
Calcium		363	0.800	2.00	mg/L	1.00	10	PRB	09/08/23	1221	2482707	6
Magnesium		261	0.100	0.300	mg/L	1.00	10					
Potassium		13.5	0.800	3.00	mg/L	1.00	10					
Sodium		75.3	0.800	2.50	mg/L	1.00	10					
Boron	J	0.00834	0.00520	0.0150	mg/L	1.00	1	PRB	09/08/23	0301	2482707	7
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Iron		3.00	0.0330	0.100	mg/L	1.00	1					
Lithium		0.0126	0.00300	0.0100	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/08/23	1349	2482707	8
Arsenic	J	0.00459	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0177	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium		0.0163	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Beryllium		0.00248	0.000200	0.000500	mg/L	1.00	1	PRB	09/08/23	1454	2482707	9
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		4640	23.8	100	mg/L			CH6	08/29/23	1603	2484234	10
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/28/23	1259	2483779	11

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Certificate of Analysis

Report Date: September 8, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-PZ-64I
Sample ID: 634650006
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		32.9	0.725	2.00	mg/L			JW2	09/01/23	1051	2486265	12
Bicarbonate alkalinity (CaCO3)		32.9	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483665
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482706

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SW846 3005A/6020B	
10	SM 2540C	
11	SM 4500-S (2-) D	
12	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 8, 2023

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-PZ-68D	Project:	GPCC00101
Sample ID:	634650007	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	23-AUG-23 16:08		
Receive Date:	24-AUG-23		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		0.218	0.0330	0.100	mg/L		1	JLD1	08/24/23	1905	2482649	1
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Chloride		23.0	1.68	5.00	mg/L		25	JLD1	08/25/23	0429	2482649	2
Sulfate		298	3.33	10.0	mg/L		25					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1119	2483666	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/08/23	1227	2482707	4
Arsenic	J	0.00342	0.00200	0.00500	mg/L	1.00	1					
Barium		0.107	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Molybdenum		0.00625	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.318	0.0260	0.0750	mg/L	1.00	5	PRB	09/08/23	1231	2482707	5
Calcium		86.4	0.400	1.00	mg/L	1.00	5					
Manganese		0.851	0.00500	0.0250	mg/L	1.00	5					
Potassium		11.4	0.400	1.50	mg/L	1.00	5					
Sodium		59.9	0.400	1.25	mg/L	1.00	5					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1	PRB	09/08/23	0304	2482707	6
Cobalt		0.00106	0.000300	0.00100	mg/L	1.00	1					
Iron		1.04	0.0330	0.100	mg/L	1.00	1					
Lithium	J	0.00399	0.00300	0.0100	mg/L	1.00	1					
Magnesium		20.3	0.0100	0.0300	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		597	2.38	10.0	mg/L			CH6	08/30/23	1542	2484583	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/28/23	1259	2483779	8

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Certificate of Analysis

Report Date: September 8, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-PZ-68D
Sample ID: 634650007
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		122	0.725	2.00	mg/L			JW2	09/01/23	1053	2486265	9
Bicarbonate alkalinity (CaCO3)		122	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482706
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483665

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 4500-S (2-) D	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 8, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-APBCD-FB-02
Sample ID: 634650008
Matrix: WQ
Collect Date: 23-AUG-23 14:50
Receive Date: 24-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	JLD1	08/24/23	1936	2482649	1
Fluoride		0.516	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1121	2483666	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/08/23	1234	2482707	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	J	0.00104	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	J	0.105	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium	J	0.0112	0.0100	0.0300	mg/L	1.00	1					
Manganese	J	0.00124	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		0.370	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			CH6	08/30/23	1542	2484583	4
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/25/23	1056	2482961	5

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Certificate of Analysis

Report Date: September 8, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-APBCD-FB-02 Project: GPCC00101
Sample ID: 634650008 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	09/01/23	1056	2486265	6
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483665
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482706

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SM 2540C	
5	SM 4500-S (2-) D	
6	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 8, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-APBCD-FD-01
Sample ID: 634650009
Matrix: WG
Collect Date: 23-AUG-23 12:00
Receive Date: 24-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		1220	26.6	80.0	mg/L		200	JLD1	08/25/23	0532	2482649	1
Chloride		14.7	0.335	1.00	mg/L		5	JLD1	08/25/23	0501	2482649	2
Fluoride		0.583	0.0330	0.100	mg/L		1	JLD1	08/24/23	2007	2482649	3
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1123	2483666	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/08/23	1352	2482707	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0167	0.000670	0.00400	mg/L	1.00	1					
Cadmium		0.00731	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	J	0.00150	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1	PRB	09/08/23	0319	2482707	6
Iron		0.402	0.0330	0.100	mg/L	1.00	1					
Lithium		0.0392	0.00300	0.0100	mg/L	1.00	1					
Potassium		9.96	0.0800	0.300	mg/L	1.00	1					
Beryllium		0.00869	0.00100	0.00250	mg/L	1.00	5	PRB	09/08/23	1243	2482707	7
Boron		0.366	0.0260	0.0750	mg/L	1.00	5					
Calcium		220	0.400	1.00	mg/L	1.00	5					
Cobalt		1.43	0.00150	0.00500	mg/L	1.00	5					
Magnesium		146	0.0500	0.150	mg/L	1.00	5					
Sodium		51.3	0.400	1.25	mg/L	1.00	5					
Manganese		78.2	0.100	0.500	mg/L	1.00	100	PRB	09/08/23	1246	2482707	8
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		2000	23.8	100	mg/L			CH6	08/30/23	1542	2484583	9
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/25/23	1057	2482961	10

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Certificate of Analysis

Report Date: September 8, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-APBCD-FD-01 Project: GPCC00101
Sample ID: 634650009 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		10.9	0.725	2.00	mg/L			JW2	09/01/23	1058	2486265	11
Bicarbonate alkalinity (CaCO3)		10.9	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482706
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483665

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SM 2540C	
10	SM 4500-S (2-) D	
11	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 8, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-APBCD-FD-02
Sample ID: 634650010
Matrix: WG
Collect Date: 23-AUG-23 12:00
Receive Date: 24-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		6.92	0.0670	0.200	mg/L		1	JLD1	08/24/23	2039	2482649	1
Fluoride		0.255	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate		295	3.33	10.0	mg/L		25	JLD1	08/25/23	0603	2482649	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1124	2483666	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/08/23	1355	2482707	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0217	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Molybdenum	J	0.000543	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Beryllium	U	ND	0.00200	0.00500	mg/L	1.00	10	PRB	09/08/23	1249	2482707	5
Boron		0.699	0.0520	0.150	mg/L	1.00	10					
Calcium		53.4	0.800	2.00	mg/L	1.00	10					
Magnesium		36.0	0.100	0.300	mg/L	1.00	10					
Manganese		6.63	0.0100	0.0500	mg/L	1.00	10					
Sodium		17.8	0.800	2.50	mg/L	1.00	10					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1	PRB	09/08/23	0322	2482707	6
Cobalt		0.0300	0.000300	0.00100	mg/L	1.00	1					
Iron		1.16	0.0330	0.100	mg/L	1.00	1					
Lithium	J	0.00494	0.00300	0.0100	mg/L	1.00	1					
Potassium		7.42	0.0800	0.300	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		492	2.38	10.0	mg/L			CH6	08/30/23	1542	2484583	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/28/23	1259	2483779	8

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Certificate of Analysis

Report Date: September 8, 2023

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-APBCD-FD-02	Project:	GPCC00101
Sample ID:	634650010	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		29.7	0.725	2.00	mg/L			JW2	09/01/23	1100	2486265	9
Bicarbonate alkalinity (CaCO3)		29.7	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482706
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483665

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 4500-S (2-) D	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 8, 2023

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-BRGWC-50	Project:	GPCC00101
Sample ID:	634650011	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	23-AUG-23 11:00		
Receive Date:	24-AUG-23		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		14.8	0.335	1.00	mg/L		5	JLD1	08/25/23	0738	2482649	1
Sulfate		1290	26.6	80.0	mg/L		200	JLD1	08/25/23	0809	2482649	2
Fluoride		0.499	0.0330	0.100	mg/L		1	JLD1	08/24/23	2110	2482649	3
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1126	2483666	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/08/23	1358	2482707	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0166	0.000670	0.00400	mg/L	1.00	1					
Cadmium		0.00744	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Manganese		103	0.100	0.500	mg/L	1.00	100	PRB	09/08/23	1255	2482707	6
Beryllium		0.00867	0.00100	0.00250	mg/L	1.00	5	PRB	09/08/23	1252	2482707	7
Boron		0.372	0.0260	0.0750	mg/L	1.00	5					
Calcium		214	0.400	1.00	mg/L	1.00	5					
Cobalt		1.38	0.00150	0.00500	mg/L	1.00	5					
Magnesium		142	0.0500	0.150	mg/L	1.00	5					
Potassium		10.6	0.400	1.50	mg/L	1.00	5					
Sodium		49.9	0.400	1.25	mg/L	1.00	5					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1	PRB	09/08/23	0326	2482707	8
Iron		0.409	0.0330	0.100	mg/L	1.00	1					
Lithium		0.0393	0.00300	0.0100	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		2180	23.8	100	mg/L			CH6	08/30/23	1542	2484583	9
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/28/23	1259	2483779	10

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Certificate of Analysis

Report Date: September 8, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-BRGWC-50 Project: GPCC00101
Sample ID: 634650011 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		11.0	0.725	2.00	mg/L			JW2	09/01/23	1101	2486265	11
Bicarbonate alkalinity (CaCO3)		11.0	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482706
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483665

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SM 2540C	
10	SM 4500-S (2-) D	
11	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 8, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-APBCD-EB-04
Sample ID: 634650012
Matrix: WQ
Collect Date: 23-AUG-23 11:35
Receive Date: 24-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	JLD1	08/24/23	2142	2482649	1
Fluoride		0.503	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1128	2483666	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/08/23	1259	2482707	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	J	0.00138	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	J	0.143	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium	J	0.0165	0.0100	0.0300	mg/L	1.00	1					
Manganese	J	0.00140	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		0.359	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			CH6	08/30/23	1542	2484583	4
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/25/23	1057	2482961	5

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Certificate of Analysis

Report Date: September 8, 2023

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-APBCD-EB-04	Project:	GPCC00101
Sample ID:	634650012	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	09/01/23	1104	2486265	6
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483665
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482706

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SM 2540C	
5	SM 4500-S (2-) D	
6	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 8, 2023

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-PZ-44	Project:	GPCC00101
Sample ID:	634650013	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	23-AUG-23 16:40		
Receive Date:	24-AUG-23		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		49.5	0.665	2.00	mg/L		5	JLD1	08/25/23	1308	2482649	1
Chloride		6.83	0.0670	0.200	mg/L		1	JLD1	08/24/23	2213	2482649	2
Fluoride		0.195	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1133	2483666	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/08/23	1302	2482707	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0555	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		26.5	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0501	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00560	0.00300	0.0100	mg/L	1.00	1					
Magnesium		10.1	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.478	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		2.44	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		11.3	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		1.35	0.0520	0.150	mg/L	1.00	10	PRB	09/08/23	1305	2482707	5
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		184	2.38	10.0	mg/L			CH6	08/30/23	1542	2484583	6
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/25/23	1058	2482961	7

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Certificate of Analysis

Report Date: September 8, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-PZ-44 Project: GPCC00101
Sample ID: 634650013 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		81.3	0.725	2.00	mg/L			JW2	09/01/23	1105	2486265	8
Bicarbonate alkalinity (CaCO3)		81.3	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482706
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483665

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 4500-S (2-) D	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
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Certificate of Analysis

Report Date: September 8, 2023

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-PZ-50D	Project:	GPCC00101
Sample ID:	634650014	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	23-AUG-23 12:30		
Receive Date:	24-AUG-23		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		10.1	0.335	1.00	mg/L		5	JLD1	08/25/23	1340	2482649	1
Sulfate		854	13.3	40.0	mg/L		100	JLD1	08/25/23	1411	2482649	2
Fluoride		0.193	0.0330	0.100	mg/L		1	JLD1	08/24/23	2244	2482649	3
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1134	2483666	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1	PRB	09/08/23	0337	2482707	5
Cobalt		0.00991	0.000300	0.00100	mg/L	1.00	1					
Iron		4.37	0.0330	0.100	mg/L	1.00	1					
Lithium		0.0232	0.00300	0.0100	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/08/23	1401	2482707	6
Arsenic	J	0.00300	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0312	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Beryllium	U	ND	0.00100	0.00250	mg/L	1.00	5	PRB	09/08/23	1308	2482707	7
Boron		0.285	0.0260	0.0750	mg/L	1.00	5					
Calcium		211	0.400	1.00	mg/L	1.00	5					
Magnesium		73.3	0.0500	0.150	mg/L	1.00	5					
Manganese		2.56	0.00500	0.0250	mg/L	1.00	5					
Potassium		12.0	0.400	1.50	mg/L	1.00	5					
Sodium		39.5	0.400	1.25	mg/L	1.00	5					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1360	4.76	20.0	mg/L			CH6	08/30/23	1542	2484583	8
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/28/23	1300	2483779	9

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Certificate of Analysis

Report Date: September 8, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-PZ-50D
Sample ID: 634650014
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		72.2	0.725	2.00	mg/L			JW2	09/01/23	1107	2486265	10
Bicarbonate alkalinity (CaCO3)		72.2	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482706
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483665

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 4500-S (2-) D	
10	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 7, 2023

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-APBCD-FD-03	Project:	GPCC00101
Sample ID:	634768001	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	24-AUG-23 12:00		
Receive Date:	25-AUG-23		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		16.4	0.670	2.00	mg/L		10	JLD1	08/26/23	1600	2483105	1
Sulfate		112	1.33	4.00	mg/L		10					
Fluoride		0.198	0.0330	0.100	mg/L		1	JLD1	08/25/23	1644	2483105	2
Nitrate-N	J	0.0476	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1212	2483668	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/06/23	1808	2483979	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0543	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron		0.0442	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		34.5	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00228	0.000300	0.00100	mg/L	1.00	1					
Iron		0.170	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		16.8	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.220	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000375	0.000200	0.00100	mg/L	1.00	1					
Potassium		3.04	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		14.8	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		246	2.38	10.0	mg/L			CH6	08/30/23	1648	2484591	5
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/25/23	1413	2483133	6

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Certificate of Analysis

Report Date: September 7, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-APBCD-FD-03 Project: GPCC00101
Sample ID: 634768001 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		45.1	0.725	2.00	mg/L			JW2	09/01/23	1112	2486267	7
Bicarbonate alkalinity (CaCO3)		45.1	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483667
SW846 3005A	ICP-MS 3005A PREP	JM13	08/29/23	1515	2483978

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SM 2540C	
6	SM 4500-S (2-) D	
7	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 7, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-APBCD-EB-05
Sample ID: 634768002
Matrix: WQ
Collect Date: 24-AUG-23 09:55
Receive Date: 25-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	JLD1	08/25/23	1826	2483105	1
Fluoride	J	0.0798	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1213	2483668	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/06/23	1811	2483979	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium	U	ND	0.0100	0.0300	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium	J	0.104	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			CH6	08/30/23	1718	2484594	4
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/25/23	1413	2483133	5

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Certificate of Analysis

Report Date: September 7, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-APBCD-EB-05 Project: GPCC00101
Sample ID: 634768002 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	09/01/23	1112	2486267	6
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	JM13	08/29/23	1515	2483978
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483667

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SM 2540C	
5	SM 4500-S (2-) D	
6	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 7, 2023

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-BRGWC-27I	Project:	GPCC00101
Sample ID:	634768003	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	24-AUG-23 12:25		
Receive Date:	25-AUG-23		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		4.81	0.0670	0.200	mg/L		1	JLD1	08/25/23	1857	2483105	1
Fluoride		0.302	0.0330	0.100	mg/L		1					
Nitrate-N	J	0.0657	0.0330	0.100	mg/L		1					
Sulfate		94.5	1.33	4.00	mg/L		10	JLD1	08/26/23	1631	2483105	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1215	2483668	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		1.25	0.104	0.300	mg/L	1.00	20	PRB	09/06/23	1840	2483979	4
Calcium		74.4	1.60	4.00	mg/L	1.00	20					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/06/23	1815	2483979	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0151	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00601	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0749	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		6.53	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.458	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		4.90	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		16.3	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		309	2.38	10.0	mg/L			CH6	08/30/23	1718	2484594	6
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/28/23	1301	2483779	7

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Certificate of Analysis

Report Date: September 7, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-BRGWC-27I
Sample ID: 634768003
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		35.6	0.725	2.00	mg/L			JW2	09/01/23	1114	2486267	8
Bicarbonate alkalinity (CaCO3)		35.6	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	JM13	08/29/23	1515	2483978
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483667

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 4500-S (2-) D	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 7, 2023

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-BRGWC-45	Project:	GPCC00101
Sample ID:	634768004	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	24-AUG-23 12:06		
Receive Date:	25-AUG-23		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		16.5	0.670	2.00	mg/L		10	JLD1	08/26/23	1702	2483105	1
Sulfate		114	1.33	4.00	mg/L		10					
Fluoride		0.185	0.0330	0.100	mg/L		1	JLD1	08/25/23	1928	2483105	2
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1217	2483668	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/06/23	1855	2483979	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0524	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron		0.0444	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		34.0	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00221	0.000300	0.00100	mg/L	1.00	1					
Iron		0.160	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		16.4	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.211	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000356	0.000200	0.00100	mg/L	1.00	1					
Potassium		3.00	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		14.5	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		242	2.38	10.0	mg/L			CH6	08/30/23	1718	2484594	5
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/25/23	1413	2483133	6

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Certificate of Analysis

Report Date: September 7, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-BRGWC-45 Project: GPCC00101
Sample ID: 634768004 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		45.2	0.725	2.00	mg/L			JW2	09/01/23	1116	2486267	7
Bicarbonate alkalinity (CaCO3)		45.2	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483667
SW846 3005A	ICP-MS 3005A PREP	JM13	08/29/23	1515	2483978

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SM 2540C	
6	SM 4500-S (2-) D	
7	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 7, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-PZ-75I
Sample ID: 634768005
Matrix: WG
Collect Date: 24-AUG-23 10:51
Receive Date: 25-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		6.84	0.0670	0.200	mg/L		1	JLD1	08/25/23	2102	2483105	1
Fluoride		0.140	0.0330	0.100	mg/L		1					
Nitrate-N		0.794	0.0330	0.100	mg/L		1					
Sulfate		275	2.66	8.00	mg/L		20	JLD1	08/26/23	1734	2483105	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1218	2483668	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		1.51	0.104	0.300	mg/L	1.00	20	PRB	09/06/23	1902	2483979	4
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/06/23	1858	2483979	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0513	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		47.0	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00105	0.000300	0.00100	mg/L	1.00	1					
Iron		0.464	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00579	0.00300	0.0100	mg/L	1.00	1					
Magnesium		33.8	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.0957	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		5.45	0.0800	0.300	mg/L	1.00	1					
Selenium		0.0696	0.00150	0.00500	mg/L	1.00	1					
Sodium		25.9	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		430	2.38	10.0	mg/L			CH6	08/30/23	1718	2484594	6
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/28/23	1302	2483779	7

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Report Date: September 7, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-PZ-75I
Sample ID: 634768005
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		27.2	0.725	2.00	mg/L			JW2	09/01/23	1118	2486267	8
Bicarbonate alkalinity (CaCO3)		27.2	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483667
SW846 3005A	ICP-MS 3005A PREP	JM13	08/29/23	1515	2483978

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 4500-S (2-) D	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 7, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-PZ-74I
Sample ID: 634768006
Matrix: WG
Collect Date: 24-AUG-23 14:15
Receive Date: 25-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		14.8	1.68	5.00	mg/L		25	JLD1	08/26/23	1805	2483105	1
Sulfate		309	3.33	10.0	mg/L		25					
Fluoride		0.157	0.0330	0.100	mg/L		1	JLD1	08/25/23	2134	2483105	2
Nitrate-N	J	0.0475	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1220	2483668	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/06/23	1906	2483979	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0346	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000590	0.000300	0.00100	mg/L	1.00	1					
Iron		0.148	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00711	0.00300	0.0100	mg/L	1.00	1					
Magnesium		33.4	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.0585	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000597	0.000200	0.00100	mg/L	1.00	1					
Potassium		3.66	0.0800	0.300	mg/L	1.00	1					
Selenium		0.0423	0.00150	0.00500	mg/L	1.00	1					
Sodium		25.9	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		1.47	0.104	0.300	mg/L	1.00	20	PRB	09/06/23	1909	2483979	5
Calcium		69.2	1.60	4.00	mg/L	1.00	20					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		506	2.38	10.0	mg/L			CH6	08/30/23	1718	2484594	6
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/25/23	1415	2483133	7

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Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-PZ-74I
Sample ID: 634768006
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		42.6	0.725	2.00	mg/L			JW2	09/01/23	1122	2486267	8
Bicarbonate alkalinity (CaCO3)		42.6	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	JM13	08/29/23	1515	2483978
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483667

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 4500-S (2-) D	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 7, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-BRGWC-29I	Project:	GPCC00101
Sample ID:	634768007	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	24-AUG-23 15:20		
Receive Date:	25-AUG-23		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		288	3.33	10.0	mg/L		25	JLD1	08/26/23	1837	2483105	1
Chloride		6.08	0.0670	0.200	mg/L		1	JLD1	08/25/23	2205	2483105	2
Fluoride	J	0.0849	0.0330	0.100	mg/L		1					
Nitrate-N		0.297	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1222	2483668	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		1.34	0.104	0.300	mg/L	1.00	20	PRB	09/06/23	1924	2483979	4
Calcium		71.4	1.60	4.00	mg/L	1.00	20					
Manganese		1.38	0.0200	0.100	mg/L	1.00	20					
Sodium		18.2	0.0800	0.250	mg/L	1.00	1	PRB	09/07/23	1036	2483979	5
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/06/23	1920	2483979	6
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0174	0.000670	0.00400	mg/L	1.00	1					
Beryllium		0.00113	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00724	0.000300	0.00100	mg/L	1.00	1					
Iron		23.3	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00349	0.00300	0.0100	mg/L	1.00	1					
Magnesium		8.02	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		9.76	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		418	2.38	10.0	mg/L			CH6	08/30/23	1718	2484594	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/28/23	1302	2483779	8

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Certificate of Analysis

Report Date: September 7, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-BRGWC-29I
Sample ID: 634768007
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	09/01/23	1124	2486267	9
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483667
SW846 3005A	ICP-MS 3005A PREP	JM13	08/29/23	1515	2483978

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 4500-S (2-) D	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 7, 2023

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-PZ-51D	Project:	GPCC00101
Sample ID:	634768008	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	24-AUG-23 11:00		
Receive Date:	25-AUG-23		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		22.2	2.68	8.00	mg/L		40	HXC1	08/25/23	2133	2483150	1
Sulfate		346	5.32	16.0	mg/L		40					
Fluoride		0.395	0.0330	0.100	mg/L		1	HXC1	08/25/23	1439	2483150	2
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1223	2483668	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/06/23	1927	2483979	4
Arsenic	J	0.00408	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0448	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron		0.0387	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000427	0.000300	0.00100	mg/L	1.00	1					
Iron		1.82	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00667	0.00300	0.0100	mg/L	1.00	1					
Magnesium		26.1	0.0100	0.0300	mg/L	1.00	1					
Molybdenum		0.00142	0.000200	0.00100	mg/L	1.00	1					
Potassium		11.3	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Sodium		52.2	1.60	5.00	mg/L	1.00	20	PRB	09/07/23	1038	2483979	5
Calcium		120	1.60	4.00	mg/L	1.00	20	PRB	09/06/23	1931	2483979	6
Manganese		1.34	0.0200	0.100	mg/L	1.00	20					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		638	4.76	20.0	mg/L			CH6	08/30/23	1718	2484594	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide		0.192	0.0330	0.100	mg/L		1	JW2	08/25/23	1416	2483133	8

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Certificate of Analysis

Report Date: September 7, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-PZ-51D
Sample ID: 634768008
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		134	0.725	2.00	mg/L			JW2	09/01/23	1125	2486267	9
Bicarbonate alkalinity (CaCO3)		134	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483667
SW846 3005A	ICP-MS 3005A PREP	JM13	08/29/23	1515	2483978

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 4500-S (2-) D	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 7, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-APBCD-FB-03
Sample ID: 634768009
Matrix: WQ
Collect Date: 24-AUG-23 12:55
Receive Date: 25-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	HXC1	08/25/23	1510	2483150	1
Fluoride		0.233	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1225	2483668	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/06/23	1935	2483979	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium	U	ND	0.0100	0.0300	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Sodium	J	0.185	0.0800	0.250	mg/L	1.00	1	PRB	09/07/23	1040	2483979	4
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			CH6	08/30/23	1718	2484594	5
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/25/23	1416	2483133	6

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Report Date: September 7, 2023

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-APBCD-FB-03	Project:	GPCC00101
Sample ID:	634768009	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	09/01/23	1129	2486267	7
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483667
SW846 3005A	ICP-MS 3005A PREP	JM13	08/29/23	1515	2483978

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	
6	SM 4500-S (2-) D	
7	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 7, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-APBCD-EB-06
Sample ID: 634768010
Matrix: WQ
Collect Date: 24-AUG-23 14:00
Receive Date: 25-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		0.282	0.0670	0.200	mg/L		1	HXC1	08/25/23	1541	2483150	1
Fluoride		0.435	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1227	2483668	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Calcium	J	0.115	0.0800	0.200	mg/L	1.00	1	PRB	09/07/23	1042	2483979	3
Sodium		0.352	0.0800	0.250	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/06/23	1938	2483979	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	J	0.000812	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium	J	0.0180	0.0100	0.0300	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			CH6	08/30/23	1718	2484594	5
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/25/23	1417	2483133	6

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Certificate of Analysis

Report Date: September 7, 2023

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-APBCD-EB-06	Project:	GPCC00101
Sample ID:	634768010	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	09/01/23	1130	2486267	7
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	JM13	08/29/23	1515	2483978
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483667

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	
6	SM 4500-S (2-) D	
7	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 7, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-BRGWC-52I
Sample ID: 634768011
Matrix: WG
Collect Date: 24-AUG-23 13:05
Receive Date: 25-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		150	1.33	4.00	mg/L		10	HXC1	08/25/23	2204	2483150	1
Fluoride	J	0.188	0.0660	0.200	mg/L		2	HXC1	08/25/23	2234	2483150	2
Chloride		6.28	0.0670	0.200	mg/L		1	HXC1	08/25/23	1612	2483150	3
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1232	2483668	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		1.87	0.104	0.300	mg/L	1.00	20	PRB	09/06/23	1945	2483979	5
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/06/23	1942	2483979	6
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0415	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		37.4	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000317	0.000300	0.00100	mg/L	1.00	1					
Iron		0.956	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0131	0.00300	0.0100	mg/L	1.00	1					
Magnesium		18.1	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.549	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000782	0.000200	0.00100	mg/L	1.00	1					
Potassium		4.65	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Sodium		19.0	0.0800	0.250	mg/L	1.00	1	PRB	09/07/23	1044	2483979	7
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		281	2.38	10.0	mg/L			CH6	08/30/23	1718	2484594	8
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/25/23	1418	2483133	9

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Certificate of Analysis

Report Date: September 7, 2023

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-BRGWC-52I	Project:	GPCC00101
Sample ID:	634768011	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		53.3	0.725	2.00	mg/L			JW2	09/01/23	1133	2486267	10
Bicarbonate alkalinity (CaCO3)		53.3	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	JM13	08/29/23	1515	2483978
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483667

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 4500-S (2-) D	
10	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 7, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-BRGWC-47
Sample ID: 634768012
Matrix: WG
Collect Date: 24-AUG-23 14:45
Receive Date: 25-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		4.67	0.0670	0.200	mg/L		1	HXC1	08/25/23	1643	2483150	1
Fluoride		0.243	0.0330	0.100	mg/L		1					
Nitrate-N		0.117	0.0330	0.100	mg/L		1					
Sulfate		1300	26.6	80.0	mg/L		200	HXC1	08/25/23	2305	2483150	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1233	2483668	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/06/23	1956	2483979	4
Arsenic	J	0.00380	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0280	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron		0.291	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0532	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.00873	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000296	0.000200	0.00100	mg/L	1.00	1					
Potassium		11.9	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.689	0.0520	0.150	mg/L	1.00	10	PRB	09/06/23	2000	2483979	5
Calcium		347	0.800	2.00	mg/L	1.00	10					
Magnesium		133	0.100	0.300	mg/L	1.00	10					
Sodium		44.2	0.0800	0.250	mg/L	1.00	1	PRB	09/07/23	1046	2483979	6
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1970	23.8	100	mg/L			CH6	08/30/23	1718	2484594	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/25/23	1418	2483133	8

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Certificate of Analysis

Report Date: September 7, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-BRGWC-47 Project: GPCC00101
Sample ID: 634768012 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		27.3	0.725	2.00	mg/L			JW2	09/01/23	1135	2486267	9
Bicarbonate alkalinity (CaCO3)		27.3	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483667
SW846 3005A	ICP-MS 3005A PREP	JM13	08/29/23	1515	2483978

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 4500-S (2-) D	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 7, 2023

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-BRGWC-25I	Project:	GPCC00101
Sample ID:	634768013	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	24-AUG-23 16:47		
Receive Date:	25-AUG-23		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		8.47	0.0670	0.200	mg/L		1	HXC1	08/25/23	1726	2483150	1
Fluoride		0.250	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate		174	2.66	8.00	mg/L		20	HXC1	08/25/23	2336	2483150	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1235	2483668	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/06/23	2004	2483979	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0271	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00343	0.000300	0.00100	mg/L	1.00	1					
Iron		0.101	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		23.4	0.0100	0.0300	mg/L	1.00	1					
Molybdenum		0.00141	0.000200	0.00100	mg/L	1.00	1					
Potassium		4.79	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		1.95	0.104	0.300	mg/L	1.00	20	PRB	09/06/23	2007	2483979	5
Calcium		69.6	1.60	4.00	mg/L	1.00	20					
Manganese		2.14	0.0200	0.100	mg/L	1.00	20					
Sodium		20.6	0.0800	0.250	mg/L	1.00	1	PRB	09/07/23	1048	2483979	6
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		354	2.38	10.0	mg/L			CH6	08/30/23	1718	2484594	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/25/23	1419	2483133	8

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Certificate of Analysis

Report Date: September 7, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-BRGWC-25I
Sample ID: 634768013
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		98.8	0.725	2.00	mg/L			JW2	09/01/23	1137	2486267	9
Bicarbonate alkalinity (CaCO3)		98.8	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483667
SW846 3005A	ICP-MS 3005A PREP	JM13	08/29/23	1515	2483978

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 4500-S (2-) D	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 6, 2023

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-PZ-57I	Project:	GPCC00101
Sample ID:	634444001	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	21-AUG-23 17:55		
Receive Date:	23-AUG-23		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/24/23	1741	2481696	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-S (2-) D	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 6, 2023

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-PZ-65I	Project:	GPCC00101
Sample ID:	634444002	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	21-AUG-23 17:45		
Receive Date:	23-AUG-23		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/24/23	1742	2481696	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-S (2-) D	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 6, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-BRGWA-23S
Sample ID: 634444003
Matrix: WG
Collect Date: 22-AUG-23 12:40
Receive Date: 23-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		2.41	0.0670	0.200	mg/L		1	JLD1	08/23/23	1959	2481584	1
Fluoride		0.114	0.0330	0.100	mg/L		1					
Nitrate-N		0.212	0.0330	0.100	mg/L		1					
Sulfate		11.3	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/25/23	1209	2482624	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Manganese	J	0.00405	0.00100	0.00500	mg/L	1.00	1	PRB	09/01/23	0916	2482703	3
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	08/31/23	2308	2482703	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0434	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron		0.0390	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		5.95	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0877	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00596	0.00300	0.0100	mg/L	1.00	1					
Magnesium		3.18	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		1.81	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		8.63	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		70.0	2.38	10.0	mg/L			CH6	08/25/23	1010	2482655	5
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/24/23	1742	2481696	6

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Certificate of Analysis

Report Date: September 6, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-BRGWA-23S
Sample ID: 634444003
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		32.9	0.725	2.00	mg/L			JW2	08/24/23	1610	2482476	7
Bicarbonate alkalinity (CaCO3)		32.9	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482702
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/24/23	1200	2482623

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	
6	SM 4500-S (2-) D	
7	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 6, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-BRGWC-30I
Sample ID: 634444004
Matrix: WG
Collect Date: 22-AUG-23 15:22
Receive Date: 23-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		3.35	0.0670	0.200	mg/L		1	JLD1	08/23/23	2030	2481584	1
Fluoride		0.116	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate		1250	13.3	40.0	mg/L		100	JLD1	08/24/23	1118	2481584	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/25/23	1211	2482624	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		2.05	0.104	0.300	mg/L	1.00	20	PRB	09/01/23	0918	2482703	4
Calcium		414	1.60	4.00	mg/L	1.00	20					
Magnesium		63.4	0.200	0.600	mg/L	1.00	20					
Manganese		1.40	0.0200	0.100	mg/L	1.00	20					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	08/31/23	2312	2482703	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0400	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00183	0.000300	0.00100	mg/L	1.00	1					
Iron		0.992	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0253	0.00300	0.0100	mg/L	1.00	1					
Molybdenum		0.00111	0.000200	0.00100	mg/L	1.00	1					
Potassium		6.06	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		30.7	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1920	4.76	20.0	mg/L			CH6	08/25/23	1010	2482655	6
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/24/23	1743	2481696	7

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Certificate of Analysis

Report Date: September 6, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-BRGWC-30I
Sample ID: 634444004
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		126	0.725	2.00	mg/L			JW2	08/24/23	1612	2482476	8
Bicarbonate alkalinity (CaCO3)		126	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/24/23	1200	2482623
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482702

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 4500-S (2-) D	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Report Date: September 6, 2023

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-BRGWC-32S	Project:	GPCC00101
Sample ID:	634444005	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	22-AUG-23 14:20		
Receive Date:	23-AUG-23		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		256	3.33	10.0	mg/L		25	JLD1	08/24/23	1150	2481584	1
Chloride		4.30	0.0670	0.200	mg/L		1	JLD1	08/23/23	2102	2481584	2
Fluoride	J	0.0477	0.0330	0.100	mg/L		1					
Nitrate-N		0.184	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/25/23	1216	2482624	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	08/31/23	2315	2482703	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0243	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		45.1	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0935	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00392	0.00300	0.0100	mg/L	1.00	1					
Magnesium		29.7	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		2.03	0.0800	0.300	mg/L	1.00	1					
Selenium		0.210	0.00150	0.00500	mg/L	1.00	1					
Sodium		26.1	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Manganese	J	0.00207	0.00100	0.00500	mg/L	1.00	1	PRB	09/01/23	0920	2482703	5
Boron		1.13	0.0520	0.150	mg/L	1.00	10	PRB	09/01/23	0922	2482703	6
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		412	2.38	10.0	mg/L			CH6	08/25/23	1010	2482655	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/24/23	1744	2481696	8

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Certificate of Analysis

Report Date: September 6, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-BRGWC-32S
Sample ID: 634444005
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		28.6	0.725	2.00	mg/L			JW2	08/24/23	1615	2482476	9
Bicarbonate alkalinity (CaCO3)		28.6	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/24/23	1200	2482623
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482702

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 4500-S (2-) D	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 6, 2023

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-PZ-61I	Project:	GPCC00101
Sample ID:	634444006	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	22-AUG-23 16:15		
Receive Date:	23-AUG-23		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		1440	26.6	80.0	mg/L		200	HXC1	08/24/23	1638	2481608	1
Chloride		15.7	0.335	1.00	mg/L		5	HXC1	08/25/23	0258	2481608	2
Fluoride		0.188	0.0330	0.100	mg/L		1	HXC1	08/23/23	1911	2481608	3
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/25/23	1218	2482624	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Manganese		107	0.500	2.50	mg/L	1.00	500	PRB	09/01/23	0928	2482703	5
Sodium		59.6	0.800	2.50	mg/L	1.00	10	PRB	09/01/23	1032	2482703	6
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	08/31/23	2319	2482703	7
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0127	0.000670	0.00400	mg/L	1.00	1					
Beryllium		0.00145	0.000200	0.000500	mg/L	1.00	1					
Cadmium	J	0.000496	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.757	0.000300	0.00100	mg/L	1.00	1					
Iron		0.348	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0106	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		6.30	0.0800	0.300	mg/L	1.00	1					
Selenium	J	0.00483	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.331	0.0260	0.0750	mg/L	1.00	5	PRB	09/01/23	0951	2482703	8
Calcium		209	0.400	1.00	mg/L	1.00	5					
Magnesium		172	0.0500	0.150	mg/L	1.00	5					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		2220	4.76	20.0	mg/L			CH6	08/25/23	1010	2482655	9
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/24/23	1744	2481696	10

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Certificate of Analysis

Report Date: September 6, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-PZ-61I
Sample ID: 634444006
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		11.3	0.725	2.00	mg/L			JW2	08/24/23	1616	2482476	11
Bicarbonate alkalinity (CaCO3)		11.3	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482702
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/24/23	1200	2482623

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SM 2540C	
10	SM 4500-S (2-) D	
11	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 6, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-APBCD-FB-01
Sample ID: 634444007
Matrix: WQ
Collect Date: 22-AUG-23 14:00
Receive Date: 23-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		0.388	0.0330	0.100	mg/L		1	HXC1	08/25/23	0227	2481608	1
Sulfate	U	ND	0.133	0.400	mg/L		1					
Chloride	U	ND	0.0670	0.200	mg/L		1	HXC1	08/23/23	1941	2481608	2
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/25/23	1219	2482624	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	08/31/23	2330	2482703	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	J	0.000729	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron	J	0.00673	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium	J	0.0283	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		0.291	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1	PRB	09/01/23	0934	2482703	5
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			CH6	08/25/23	1010	2482655	6
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/24/23	1745	2481696	7

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Report Date: September 6, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-APBCD-FB-01 Project: GPCC00101
Sample ID: 634444007 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	08/24/23	1618	2482476	8
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/24/23	1200	2482623
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482702

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 4500-S (2-) D	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

QC Summary

Report Date: September 7, 2023

Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia

Contact: **Joju Abraham**

Workorder: **634768**

Parmname	NOM		Sample	Qual	QC	Units	RPD%		REC%	Range	Anlst	Date Time
Ion Chromatography												
Batch 2483105												
QC1205499912 634768007 DUP												
Chloride			6.08		5.97	mg/L	1.71			(0%-20%)	JLD1	08/25/23 22:37
Fluoride		J	0.0849	J	0.0881	mg/L	3.7	^		(+/-0.100)		
Nitrate-N			0.297		0.293	mg/L	1.36	^		(+/-0.100)		
Sulfate			288		292	mg/L	1.47			(0%-20%)		08/26/23 19:08
QC1205499911 LCS												
Chloride	5.00				4.84	mg/L			96.7	(90%-110%)		08/26/23 00:42
Fluoride	2.50				2.57	mg/L			103	(90%-110%)		
Nitrate-N	2.50				2.40	mg/L			96	(90%-110%)		
Sulfate	10.0				9.88	mg/L			98.8	(90%-110%)		
QC1205499910 MB												
Chloride				U	ND	mg/L						08/26/23 00:11
Fluoride				U	ND	mg/L						
Nitrate-N				U	ND	mg/L						
Sulfate				U	ND	mg/L						
QC1205499913 634768007 PS												
Chloride	5.00		6.08		11.6	mg/L			110	(90%-110%)		08/25/23 23:08

QC Summary

Workorder: **634768**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography											
Batch 2483105											
Fluoride	2.50	J	0.0849		2.82	mg/L		109	(90%-110%)	JLD1	08/25/23 23:08
Nitrate-N	2.50		0.297		2.74	mg/L		97.6	(90%-110%)		
Sulfate	10.0		11.5		21.8	mg/L		103	(90%-110%)		08/26/23 19:39
Batch 2483150											
QC1205499980 634784001 DUP											
Chloride			4.43		4.44	mg/L	0.11		(0%-20%)	HXC1	08/25/23 18:28
Fluoride			0.334		0.337	mg/L	0.983 ^		(+/-0.100)		
Nitrate-N		J	0.0807	J	0.0778	mg/L	3.66 ^		(+/-0.100)		
Sulfate			293		294	mg/L	0.0981		(0%-20%)		08/26/23 00:38
QC1205499979 LCS											
Chloride	5.00				4.79	mg/L		95.9	(90%-110%)		08/25/23 21:02
Fluoride	2.50				2.49	mg/L		99.6	(90%-110%)		
Nitrate-N	2.50				2.38	mg/L		95.4	(90%-110%)		
Sulfate	10.0				9.79	mg/L		97.9	(90%-110%)		
QC1205499978 MB											
Chloride				U	ND	mg/L					08/25/23 19:29
Fluoride				U	ND	mg/L					
Nitrate-N				U	ND	mg/L					

QC Summary

Workorder: **634768**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography											
Batch 2483150											
Sulfate				U	ND	mg/L				HXC1	08/25/23 19:29
QC1205499981 634784001 PS											
Chloride	5.00		4.43		9.90	mg/L		109	(90%-110%)		08/25/23 18:59
Fluoride	2.50		0.334		2.76	mg/L		97	(90%-110%)		
Nitrate-N	2.50	J	0.0807		2.45	mg/L		94.7	(90%-110%)		
Sulfate	10.0		7.33		17.7	mg/L		103	(90%-110%)		08/26/23 01:09
Metals Analysis - ICPMS											
Batch 2483979											
QC1205501592 LCS											
Antimony	0.0500				0.0501	mg/L		100	(80%-120%)	PRB	09/06/23 18:04
Arsenic	0.0500				0.0507	mg/L		101	(80%-120%)		
Barium	0.0500				0.0497	mg/L		99.5	(80%-120%)		
Beryllium	0.0500				0.0581	mg/L		116	(80%-120%)		
Boron	0.100				0.110	mg/L		110	(80%-120%)		
Cadmium	0.0500				0.0516	mg/L		103	(80%-120%)		
Calcium	2.00				2.10	mg/L		105	(80%-120%)		
Chromium	0.0500				0.0509	mg/L		102	(80%-120%)		
Cobalt	0.0500				0.0507	mg/L		101	(80%-120%)		

QC Summary

Workorder: **634768**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2483979										
Iron	2.00			2.01	mg/L		101	(80%-120%)	PRB	09/06/23 18:04
Lead	0.0500			0.0517	mg/L		103	(80%-120%)		
Lithium	0.0500			0.0563	mg/L		113	(80%-120%)		
Magnesium	2.00			2.08	mg/L		104	(80%-120%)		
Manganese	0.0500			0.0498	mg/L		99.6	(80%-120%)		
Molybdenum	0.0500			0.0532	mg/L		106	(80%-120%)		
Potassium	2.00			2.02	mg/L		101	(80%-120%)		
Selenium	0.0500			0.0495	mg/L		98.9	(80%-120%)		
Sodium	2.00			2.25	mg/L		112	(80%-120%)		
Thallium	0.0500			0.0496	mg/L		99.2	(80%-120%)		
QC1205501591 MB										
Antimony			U	ND	mg/L					09/06/23 18:00
Arsenic			U	ND	mg/L					
Barium			U	ND	mg/L					
Beryllium			U	ND	mg/L					
Boron			U	ND	mg/L					

QC Summary

Workorder: **634768**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2483979										
Cadmium			U	ND	mg/L				PRB	09/06/23 18:00
Calcium			U	ND	mg/L					
Chromium			U	ND	mg/L					
Cobalt			U	ND	mg/L					
Iron			U	ND	mg/L					
Lead			U	ND	mg/L					
Lithium			U	ND	mg/L					
Magnesium			U	ND	mg/L					
Manganese			U	ND	mg/L					
Molybdenum			U	ND	mg/L					
Potassium			U	ND	mg/L					
Selenium			U	ND	mg/L					
Sodium			U	ND	mg/L					
Thallium			U	ND	mg/L					
QC1205501593 634768003 MS										
Antimony	0.0500	U	ND	0.0513	mg/L		103	(75%-125%)		09/06/23 18:18

QC Summary

Workorder: **634768**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2483979											
Arsenic	0.0500	U	ND		0.0514	mg/L		99.8	(75%-125%)	PRB	09/06/23 18:18
Barium	0.0500		0.0151		0.0634	mg/L		96.5	(75%-125%)		
Beryllium	0.0500	U	ND		0.0551	mg/L		110	(75%-125%)		
Boron	0.100		1.25		1.39	mg/L		N/A	(75%-125%)		09/06/23 18:44
Cadmium	0.0500	U	ND		0.0492	mg/L		98.3	(75%-125%)		09/06/23 18:18
Calcium	2.00		74.4		76.1	mg/L		N/A	(75%-125%)		09/06/23 18:44
Chromium	0.0500	U	ND		0.0497	mg/L		99	(75%-125%)		09/06/23 18:18
Cobalt	0.0500		0.00601		0.0548	mg/L		97.6	(75%-125%)		
Iron	2.00	J	0.0749		2.05	mg/L		98.8	(75%-125%)		
Lead	0.0500	U	ND		0.0503	mg/L		101	(75%-125%)		
Lithium	0.0500	U	ND		0.0547	mg/L		107	(75%-125%)		
Magnesium	2.00		6.53		8.41	mg/L		94.2	(75%-125%)		
Manganese	0.0500		0.458		0.511	mg/L		N/A	(75%-125%)		
Molybdenum	0.0500	U	ND		0.0528	mg/L		105	(75%-125%)		
Potassium	2.00		4.90		6.94	mg/L		102	(75%-125%)		

QC Summary

Workorder: **634768**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2483979											
Selenium	0.0500	U	ND		0.0488	mg/L		97.5	(75%-125%)	PRB	09/06/23 18:18
Sodium	2.00		16.3		18.1	mg/L		N/A	(75%-125%)		
Thallium	0.0500	U	ND		0.0490	mg/L		98	(75%-125%)		
QC1205501594 634768003 MSD											
Antimony	0.0500	U	ND		0.0500	mg/L	2.65	99.9	(0%-20%)		09/06/23 18:22
Arsenic	0.0500	U	ND		0.0495	mg/L	3.85	96	(0%-20%)		
Barium	0.0500		0.0151		0.0615	mg/L	3	92.7	(0%-20%)		
Beryllium	0.0500	U	ND		0.0552	mg/L	0.165	110	(0%-20%)		
Boron	0.100		1.25		1.36	mg/L	2.5	N/A	(0%-20%)		09/06/23 18:47
Cadmium	0.0500	U	ND		0.0481	mg/L	2.27	96.1	(0%-20%)		09/06/23 18:22
Calcium	2.00		74.4		74.0	mg/L	2.8	N/A	(0%-20%)		09/06/23 18:47
Chromium	0.0500	U	ND		0.0482	mg/L	3.1	96	(0%-20%)		09/06/23 18:22
Cobalt	0.0500		0.00601		0.0529	mg/L	3.54	93.8	(0%-20%)		
Iron	2.00	J	0.0749		1.96	mg/L	4.48	94.3	(0%-20%)		
Lead	0.0500	U	ND		0.0491	mg/L	2.44	98.1	(0%-20%)		
Lithium	0.0500	U	ND		0.0532	mg/L	2.78	104	(0%-20%)		

QC Summary

Workorder: **634768**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2483979											
Magnesium	2.00		6.53		8.23	mg/L	2.18	85.2	(0%-20%)	PRB	09/06/23 18:22
Manganese	0.0500		0.458		0.493	mg/L	3.49	N/A	(0%-20%)		
Molybdenum	0.0500	U	ND		0.0513	mg/L	2.83	102	(0%-20%)		
Potassium	2.00		4.90		6.74	mg/L	2.93	92.1	(0%-20%)		
Selenium	0.0500	U	ND		0.0468	mg/L	4.28	93.4	(0%-20%)		
Sodium	2.00		16.3		17.9	mg/L	0.949	N/A	(0%-20%)		
Thallium	0.0500	U	ND		0.0473	mg/L	3.67	94.4	(0%-20%)		
QC1205501595 634768003 SDILT											
Antimony		U	ND	U	ND	ug/L	N/A		(0%-20%)		09/06/23 18:29
Arsenic		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Barium			15.1	J	3.20	ug/L	5.84		(0%-20%)		
Beryllium		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Boron			62.7	J	13.1	ug/L	4.57		(0%-20%)		09/06/23 18:51
Cadmium		U	ND	U	ND	ug/L	N/A		(0%-20%)		09/06/23 18:29
Calcium			3720		786	ug/L	5.58		(0%-20%)		09/06/23 18:51
Chromium		U	ND	U	ND	ug/L	N/A		(0%-20%)		09/06/23 18:29

QC Summary

Workorder: **634768**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2483979										
Cobalt		6.01		1.25	ug/L	4.24		(0%-20%)	PRB	09/06/23 18:29
Iron	J	74.9	U	ND	ug/L	N/A		(0%-20%)		
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Lithium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Magnesium		6530		1280	ug/L	1.77		(0%-20%)		
Manganese		458		91.7	ug/L	.114		(0%-20%)		
Molybdenum	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Potassium		4900		968	ug/L	1.19		(0%-20%)		
Selenium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Sodium		16300		3340	ug/L	2.56		(0%-20%)		
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Metals Analysis-Mercury										
Batch 2483668										
QC1205500965 634563009 DUP										
Mercury	U	ND	U	ND	mg/L	N/A			AXS5	08/29/23 11:59
QC1205500964 LCS										
Mercury	0.00200			0.00214	mg/L		107	(80%-120%)		08/29/23 11:56
QC1205500963 MB										
Mercury			U	ND	mg/L					08/29/23 11:54

QC Summary

Workorder: 634768

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis-Mercury												
Batch 2483668												
QC1205500966 634563009 MS												
Mercury	0.00200	U	ND		0.00211	mg/L		106	(75%-125%)	AXS5	08/29/23	12:00
QC1205500967 634563009 SDILT												
Mercury		U	ND	U	ND	ug/L	N/A		(0%-10%)		08/29/23	12:02
Solids Analysis												
Batch 2484591												
QC1205502656 634511009 DUP												
Total Dissolved Solids			190		201	mg/L	5.63*		(0%-5%)	CH6	08/30/23	16:48
QC1205502655 LCS												
Total Dissolved Solids	300				301	mg/L		100	(95%-105%)		08/30/23	16:48
QC1205502654 MB												
Total Dissolved Solids				U	ND	mg/L					08/30/23	16:48
Batch 2484594												
QC1205502665 634784001 DUP												
Total Dissolved Solids			499		515	mg/L	3.16		(0%-5%)	CH6	08/30/23	17:18
QC1205502664 LCS												
Total Dissolved Solids	300				301	mg/L		100	(95%-105%)		08/30/23	17:18
QC1205502663 MB												
Total Dissolved Solids				U	ND	mg/L					08/30/23	17:18
Spectrometric Analysis												
Batch 2483133												
QC1205499947 LCS												
Total Sulfide	0.400				0.396	mg/L		99	(85%-115%)	JW2	08/25/23	14:10
QC1205499946 MB												
Total Sulfide				U	ND	mg/L					08/25/23	14:10

QC Summary

Workorder: 634768

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Spectrometric Analysis										
Batch 2483133										
QC1205499950 634768004 PS										
Total Sulfide	0.400 U	ND		0.266	mg/L		65.8*	(75%-125%)	JW2	08/25/23 14:14
QC1205499951 634768004 PSD										
Total Sulfide	0.400 U	ND		0.273	mg/L	2.59	67.5*	(0%-15%)		08/25/23 14:15
Batch 2483779										
QC1205501209 LCS										
Total Sulfide	0.400			0.398	mg/L		99.4	(85%-115%)	JW2	08/28/23 12:54
QC1205501208 MB										
Total Sulfide			U	ND	mg/L					08/28/23 12:54
QC1205501210 634615002 PS										
Total Sulfide	0.400 U	ND		0.118	mg/L		29.4*	(75%-125%)		08/28/23 12:55
QC1205501212 634650011 PS										
Total Sulfide	0.400 U	ND		0.111	mg/L		27.7*	(75%-125%)		08/28/23 12:59
QC1205501211 634615002 PSD										
Total Sulfide	0.400 U	ND		0.113	mg/L	3.73	28.3*	(0%-15%)		08/28/23 12:55
QC1205501213 634650011 PSD										
Total Sulfide	0.400 U	ND		0.109	mg/L	1.96	27.2*	(0%-15%)		08/28/23 13:00
Titration and Ion Analysis										
Batch 2486267										
QC1205505693 LCS										
Alkalinity, Total as CaCO3	50.0			51.2	mg/L		102	(90%-110%)	JW2	09/01/23 11:10
QC1205505710 LCS										
Alkalinity, Total as CaCO3	15.0			15.3	mg/L		102	(90%-110%)		09/01/23 11:11

QC Summary

Workorder: **634768**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Titration and Ion Analysis											
Batch 2486267											
QC1205506027 LCSD											
Alkalinity, Total as CaCO3	50.0			51.5	mg/L	0.584	103	(0%-20%)	JW2	09/01/23	11:11
QC1205506195 LCSD											
Alkalinity, Total as CaCO3	15.0			14.8	mg/L	3.32	98.7	(0%-20%)		09/01/23	11:11

Notes:

The Qualifiers in this report are defined as follows:

U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
N	Metals--The Matrix spike sample recovery is not within specified control limits
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
Z	Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
d	5-day BOD--The 2:1 depletion requirement was not met for this sample
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
E	%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
E	General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
FB	Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
R	Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.
B	The target analyte was detected in the associated blank.
e	5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes
J	See case narrative for an explanation

QC Summary

Workorder: **634768**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

QC Summary

Report Date: September 6, 2023

Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia

Contact: **Joju Abraham**

Workorder: **634444**

Parmname	NOM		Sample	Qual	QC	Units	RPD%		REC%	Range	Anlst	Date Time
Ion Chromatography												
Batch 2481584												
QC1205497354 634441001 DUP												
Chloride			32.7		32.5	mg/L	0.522	^		(+/-10.0)	JLD1	08/24/23 01:49
Fluoride			0.123		0.124	mg/L	1.13	^		(+/-0.100)		08/24/23 00:14
Nitrate-N		J	0.0707	J	0.0739	mg/L	4.43	^		(+/-0.100)		
Sulfate			466		474	mg/L	1.69			(0%-20%)		08/24/23 01:49
QC1205497353 LCS												
Chloride	5.00				4.64	mg/L			92.8	(90%-110%)		08/23/23 23:42
Fluoride	2.50				2.37	mg/L			94.6	(90%-110%)		
Nitrate-N	2.50				2.27	mg/L			91	(90%-110%)		
Sulfate	10.0				9.48	mg/L			94.8	(90%-110%)		
QC1205497352 MB												
Chloride				U	ND	mg/L						08/23/23 23:10
Fluoride				U	ND	mg/L						
Nitrate-N				U	ND	mg/L						
Sulfate				U	ND	mg/L						
QC1205497355 634441001 PS												
Chloride	5.00		0.654		5.10	mg/L			88.9 *	(90%-110%)		08/24/23 02:21

QC Summary

Workorder: **634444**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography											
Batch 2481584											
Fluoride	2.50		0.123		2.56	mg/L		97.3	(90%-110%)	JLD1	08/24/23 00:45
Nitrate-N	2.50	J	0.0707		2.29	mg/L		88.7*	(90%-110%)		
Sulfate	10.0		9.32		18.8	mg/L		94.3	(90%-110%)		08/24/23 02:21
Batch 2481608											
QC1205497371 634145003 DUP											
Nitrite-N			0.000		0.000	mg/L	0 ^		(+/-2.50)	HXC1	08/24/23 15:05
Chloride			78.8		79.7	mg/L	1.1		(0%-20%)		
Fluoride			0.719		0.719	mg/L	0.0417		(0%-20%)		08/23/23 20:43
Nitrate-N			10.9		11.0	mg/L	0.894 ^		(+/-2.50)		08/24/23 15:05
Sulfate			37.6		37.5	mg/L	0.306 ^		(+/-10.0)		
QC1205497369 LCS											
Chloride	5.00				4.78	mg/L		95.6	(90%-110%)		08/23/23 23:18
Fluoride	2.50				2.46	mg/L		98.3	(90%-110%)		
Nitrate-N	2.50				2.36	mg/L		94.3	(90%-110%)		
Sulfate	10.0				9.76	mg/L		97.6	(90%-110%)		
QC1205497368 MB											
Chloride				U	ND	mg/L					08/23/23 22:47
Fluoride				U	ND	mg/L					

QC Summary

Workorder: **634444**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography										
Batch 2481608										
Nitrate-N			U	ND	mg/L				HXC1	08/23/23 22:47
Sulfate			U	ND	mg/L					
QC1205497373 634145003 PS										
Nitrite-N	2.50	0.000		2.54	mg/L		101	(90%-110%)		08/24/23 15:36
Chloride	5.00	3.15		8.45	mg/L		106	(90%-110%)		
Fluoride	2.50	0.719		3.17	mg/L		98	(90%-110%)		08/23/23 21:14
Nitrate-N	2.50	0.434		2.85	mg/L		96.5	(90%-110%)		08/24/23 15:36
Sulfate	10.0	1.51		11.3	mg/L		98.4	(90%-110%)		
Metals Analysis - ICPMS										
Batch 2482703										
QC1205499165 LCS										
Antimony	0.0500			0.0492	mg/L		98.4	(80%-120%)	PRB	08/31/23 22:21
Arsenic	0.0500			0.0500	mg/L		99.9	(80%-120%)		
Barium	0.0500			0.0522	mg/L		104	(80%-120%)		
Beryllium	0.0500			0.0527	mg/L		105	(80%-120%)		
Boron	0.100			0.103	mg/L		103	(80%-120%)		
Cadmium	0.0500			0.0502	mg/L		100	(80%-120%)		
Calcium	2.00			1.96	mg/L		98	(80%-120%)		

QC Summary

Workorder: **634444**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2482703										
Chromium	0.0500			0.0515	mg/L		103	(80%-120%)	PRB	08/31/23 22:21
Cobalt	0.0500			0.0514	mg/L		103	(80%-120%)		
Iron	2.00			2.02	mg/L		101	(80%-120%)		
Lead	0.0500			0.0518	mg/L		104	(80%-120%)		
Lithium	0.0500			0.0506	mg/L		101	(80%-120%)		
Magnesium	2.00			1.97	mg/L		98.4	(80%-120%)		
Manganese	0.0500			0.0497	mg/L		99.4	(80%-120%)		09/01/23 08:52
Molybdenum	0.0500			0.0499	mg/L		99.8	(80%-120%)		08/31/23 22:21
Potassium	2.00			1.94	mg/L		97	(80%-120%)		
Selenium	0.0500			0.0493	mg/L		98.7	(80%-120%)		
Sodium	2.00			1.95	mg/L		97.6	(80%-120%)		
Thallium	0.0500			0.0507	mg/L		101	(80%-120%)		
QC1205499164 MB										
Antimony			U	ND	mg/L					08/31/23 22:18
Arsenic			U	ND	mg/L					
Barium			U	ND	mg/L					

QC Summary

Workorder: **634444**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch 2482703											
Beryllium			U	ND	mg/L				PRB	08/31/23	22:18
Boron			U	ND	mg/L						
Cadmium			U	ND	mg/L						
Calcium			U	ND	mg/L						
Chromium			U	ND	mg/L						
Cobalt			U	ND	mg/L						
Iron			U	ND	mg/L						
Lead			U	ND	mg/L						
Lithium			U	ND	mg/L						
Magnesium			U	ND	mg/L						
Manganese			U	ND	mg/L					09/01/23	08:50
Molybdenum			U	ND	mg/L					08/31/23	22:18
Potassium			U	ND	mg/L						
Selenium			U	ND	mg/L						
Sodium			U	ND	mg/L						

QC Summary

Workorder: **634444**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2482703											
Thallium				U	ND	mg/L				PRB	08/31/23 22:18
QC1205499166 634441003 MS											
Antimony	0.0500	U	ND		0.0511	mg/L		102	(75%-125%)		08/31/23 22:36
Arsenic	0.0500	U	ND		0.0528	mg/L		105	(75%-125%)		
Barium	0.0500		0.0268		0.0800	mg/L		106	(75%-125%)		
Beryllium	0.0500	U	ND		0.0531	mg/L		106	(75%-125%)		
Boron	0.100		1.90		2.08	mg/L		N/A	(75%-125%)		09/01/23 09:00
Cadmium	0.0500	U	ND		0.0511	mg/L		102	(75%-125%)		08/31/23 22:36
Calcium	2.00		83.4		88.8	mg/L		N/A	(75%-125%)		09/01/23 09:00
Chromium	0.0500	U	ND		0.0518	mg/L		103	(75%-125%)		08/31/23 22:36
Cobalt	0.0500		0.00384		0.0554	mg/L		103	(75%-125%)		
Iron	2.00	U	ND		2.06	mg/L		102	(75%-125%)		
Lead	0.0500	U	ND		0.0511	mg/L		102	(75%-125%)		
Lithium	0.0500	U	ND		0.0521	mg/L		102	(75%-125%)		
Magnesium	2.00		18.9		21.3	mg/L		N/A	(75%-125%)		
Manganese	0.0500		3.33		3.48	mg/L		N/A	(75%-125%)		09/01/23 09:00

QC Summary

Workorder: **634444**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2482703											
Molybdenum	0.0500	U	ND		0.0527	mg/L		105	(75%-125%)	PRB	08/31/23 22:36
Potassium	2.00		3.52		5.59	mg/L		104	(75%-125%)		
Selenium	0.0500	U	ND		0.0531	mg/L		106	(75%-125%)		
Sodium	2.00		20.7		23.1	mg/L		N/A	(75%-125%)		
Thallium	0.0500	U	ND		0.0503	mg/L		101	(75%-125%)		
QC1205499167 634441003 MSD											
Antimony	0.0500	U	ND		0.0491	mg/L	4.07	98.1	(0%-20%)		08/31/23 22:39
Arsenic	0.0500	U	ND		0.0508	mg/L	3.79	101	(0%-20%)		
Barium	0.0500		0.0268		0.0757	mg/L	5.49	97.8	(0%-20%)		
Beryllium	0.0500	U	ND		0.0506	mg/L	4.96	101	(0%-20%)		
Boron	0.100		1.90		2.00	mg/L	4.07	N/A	(0%-20%)		09/01/23 09:02
Cadmium	0.0500	U	ND		0.0496	mg/L	2.97	98.7	(0%-20%)		08/31/23 22:39
Calcium	2.00		83.4		84.1	mg/L	5.45	N/A	(0%-20%)		09/01/23 09:02
Chromium	0.0500	U	ND		0.0504	mg/L	2.88	101	(0%-20%)		08/31/23 22:39
Cobalt	0.0500		0.00384		0.0540	mg/L	2.65	100	(0%-20%)		
Iron	2.00	U	ND		2.00	mg/L	2.95	98.6	(0%-20%)		

QC Summary

Workorder: **634444**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2482703											
Lead	0.0500	U	ND		0.0493	mg/L	3.6	98.5	(0%-20%)	PRB	08/31/23 22:39
Lithium	0.0500	U	ND		0.0509	mg/L	2.35	99.9	(0%-20%)		
Magnesium	2.00		18.9		20.7	mg/L	2.55	N/A	(0%-20%)		
Manganese	0.0500		3.33		3.35	mg/L	3.62	N/A	(0%-20%)		09/01/23 09:02
Molybdenum	0.0500	U	ND		0.0512	mg/L	2.82	102	(0%-20%)		08/31/23 22:39
Potassium	2.00		3.52		5.37	mg/L	4.12	92.4	(0%-20%)		
Selenium	0.0500	U	ND		0.0512	mg/L	3.53	102	(0%-20%)		
Sodium	2.00		20.7		22.6	mg/L	2.28	N/A	(0%-20%)		
Thallium	0.0500	U	ND		0.0488	mg/L	3.06	97.5	(0%-20%)		
QC1205499168 634441003 SDILT											
Antimony		U	ND	U	ND	ug/L	N/A		(0%-20%)		08/31/23 22:46
Arsenic		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Barium			26.8		5.04	ug/L	6.03		(0%-20%)		
Beryllium		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Boron			95.1		20.6	ug/L	8.16		(0%-20%)		09/01/23 09:04
Cadmium		U	ND	U	ND	ug/L	N/A		(0%-20%)		08/31/23 22:46

QC Summary

Workorder: **634444**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2482703										
Calcium		4170		869	ug/L	4.2		(0%-20%)	PRB	09/01/23 09:04
Chromium	U	ND	U	ND	ug/L	N/A		(0%-20%)		08/31/23 22:46
Cobalt		3.84	J	0.796	ug/L	3.56		(0%-20%)		
Iron	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Lithium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Magnesium		18900		3500	ug/L	7.29		(0%-20%)		
Manganese		167		33.7	ug/L	1.09		(0%-20%)		09/01/23 09:04
Molybdenum	U	ND	U	ND	ug/L	N/A		(0%-20%)		08/31/23 22:46
Potassium		3520		680	ug/L	3.4		(0%-20%)		
Selenium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Sodium		20700		3830	ug/L	7.8		(0%-20%)		
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Metals Analysis-Mercury										
Batch 2482624										
QC1205499046 634447002 DUP										
Mercury	U	ND	U	ND	mg/L	N/A			JP2	08/25/23 12:24

QC Summary

Workorder: **634444**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis-Mercury										
Batch 2482624										
QC1205499045 LCS										
Mercury	0.00200			0.00199	mg/L		99.5	(80%-120%)	JP2	08/25/23 11:58
QC1205499044 MB										
Mercury			U	ND	mg/L					08/25/23 11:56
QC1205499047 634447002 MS										
Mercury	0.00200	U	ND	0.00199	mg/L		99.5	(75%-125%)		08/25/23 12:26
QC1205499048 634447002 SDILT										
Mercury		U	ND	U ND	ug/L	N/A		(0%-10%)		08/25/23 12:27
Solids Analysis										
Batch 2482655										
QC1205499077 634352015 DUP										
Total Dissolved Solids		U	ND	U ND	mg/L	N/A			CH6	08/25/23 10:10
QC1205499076 LCS										
Total Dissolved Solids	300			301	mg/L		100	(95%-105%)		08/25/23 10:10
QC1205499075 MB										
Total Dissolved Solids			U	ND	mg/L					08/25/23 10:10
Spectrometric Analysis										
Batch 2481696										
QC1205497560 LCS										
Total Sulfide	0.400			0.398	mg/L		99.6	(85%-115%)	JW2	08/24/23 17:36
QC1205497559 MB										
Total Sulfide			U	ND	mg/L					08/24/23 17:36
QC1205497561 634441001 PS										
Total Sulfide	0.400	U	ND	0.363	mg/L		90.8	(75%-125%)		08/24/23 17:37

QC Summary

Workorder: **634444**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Spectrometric Analysis											
Batch 2481696											
QC1205497563 634447001 PS											
Total Sulfide	0.400	U	ND		0.420	mg/L		105	(75%-125%)	JW2	08/24/23 17:46
QC1205497562 634441001 PSD											
Total Sulfide	0.400	U	ND		0.367	mg/L	1.09	91.8	(0%-15%)		08/24/23 17:38
QC1205497564 634447001 PSD											
Total Sulfide	0.400	U	ND		0.412	mg/L	1.92	103	(0%-15%)		08/24/23 17:47
Titration and Ion Analysis											
Batch 2482476											
QC1205498938 LCS											
Alkalinity, Total as CaCO3	50.0				50.2	mg/L		100	(90%-110%)	JW2	08/24/23 15:56
QC1205499028 LCSD											
Alkalinity, Total as CaCO3	50.0				50.7	mg/L	0.991	101	(0%-20%)		08/24/23 15:57

Notes:

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- N Metals--The Matrix spike sample recovery is not within specified control limits
- H Analytical holding time was exceeded
- < Result is less than value reported
- > Result is greater than value reported
- h Preparation or preservation holding time was exceeded
- R Sample results are rejected
- Z Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
- d 5-day BOD--The 2:1 depletion requirement was not met for this sample
- ^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
- N/A RPD or %Recovery limits do not apply.
- ND Analyte concentration is not detected above the detection limit
- E %difference of sample and SD is >10%. Sample concentration must meet flagging criteria

QC Summary

Workorder: **634444**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
E	General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
FB	Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
R	Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.
B	The target analyte was detected in the associated blank.
e	5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes
J	See case narrative for an explanation

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

QC Summary

Report Date: September 8, 2023

Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia

Contact: **Joju Abraham**

Workorder: **634650**

Parmname	NOM		Sample	Qual	QC	Units	RPD%		REC%	Range	Anlst	Date	Time
Ion Chromatography													
Batch 2482641													
QC1205499056 634643001 DUP													
Chloride			2.56		2.56	mg/L	0.235			(0%-20%)	LXA2	08/24/23	23:40
Fluoride			2.34		2.35	mg/L	0.435			(0%-20%)			
Nitrate-N		J	0.0737	J	0.0724	mg/L	1.78	^		(+/-0.100)			
Sulfate			761		761	mg/L	0.0329			(0%-20%)		08/25/23	15:38
QC1205499055 LCS													
Chloride	5.00				4.61	mg/L			92.3	(90%-110%)		08/24/23	22:06
Fluoride	2.50				2.40	mg/L			96	(90%-110%)			
Nitrate-N	2.50				2.31	mg/L			92.4	(90%-110%)			
Sulfate	10.0				9.50	mg/L			95	(90%-110%)			
QC1205499054 MB													
Chloride				U	ND	mg/L						08/24/23	23:09
Fluoride				U	ND	mg/L							
Nitrate-N				U	ND	mg/L							
Sulfate				U	ND	mg/L							
QC1205499057 634643001 PS													
Chloride	5.00		2.56		7.48	mg/L			98.4	(90%-110%)		08/25/23	00:11

QC Summary

Workorder: 634650

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography											
Batch 2482641											
Fluoride	2.50		2.34		4.86	mg/L		101	(90%-110%)	LXA2	08/25/23 00:11
Nitrate-N	2.50	J	0.0737		2.40	mg/L		92.9	(90%-110%)		
Sulfate	10.0		7.61		17.7	mg/L		101	(90%-110%)		08/25/23 16:09
Batch 2482649											
QC1205499060 634519001 DUP											
Chloride			1.63		1.64	mg/L	0.527		(0%-20%)	JLD1	08/25/23 01:21
Fluoride		U	ND	U	ND	mg/L	N/A				
Nitrate-N		U	ND	U	ND	mg/L	N/A				
Sulfate			44.9		44.7	mg/L	0.427		(0%-20%)		08/25/23 12:06
QC1205499059 LCS											
Chloride	5.00				4.86	mg/L		97.2	(90%-110%)		08/25/23 03:27
Fluoride	2.50				2.58	mg/L		103	(90%-110%)		
Nitrate-N	2.50				2.42	mg/L		96.9	(90%-110%)		
Sulfate	10.0				9.95	mg/L		99.5	(90%-110%)		
QC1205499058 MB											
Chloride				U	ND	mg/L					08/25/23 02:55
Fluoride				U	ND	mg/L					
Nitrate-N				U	ND	mg/L					

QC Summary

Workorder: **634650**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography											
Batch 2482649											
Sulfate				U	ND	mg/L				JLD1	08/25/23 02:55
QC1205499061 634519001 PS											
Chloride	5.00		1.63		6.55	mg/L		98.5	(90%-110%)		08/25/23 01:52
Fluoride	2.50	U	ND		2.54	mg/L		102	(90%-110%)		
Nitrate-N	2.50	U	ND		2.52	mg/L		101	(90%-110%)		
Sulfate	10.0		8.97		24.7	mg/L		157*	(90%-110%)		08/25/23 12:37
Metals Analysis - ICPMS											
Batch 2482707											
QC1205499175 LCS											
Antimony	0.0500				0.0492	mg/L		98.4	(80%-120%)	PRB	09/08/23 11:22
Arsenic	0.0500				0.0510	mg/L		102	(80%-120%)		
Barium	0.0500				0.0569	mg/L		114	(80%-120%)		
Beryllium	0.0500				0.0494	mg/L		98.8	(80%-120%)		
Boron	0.100				0.0988	mg/L		98.8	(80%-120%)		
Cadmium	0.0500				0.0502	mg/L		100	(80%-120%)		
Calcium	2.00				2.11	mg/L		106	(80%-120%)		
Chromium	0.0500				0.0485	mg/L		97	(80%-120%)		
Cobalt	0.0500				0.0498	mg/L		99.6	(80%-120%)		

QC Summary

Workorder: **634650**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2482707										
Iron	2.00			1.98	mg/L		99.2	(80%-120%)	PRB	09/08/23 11:22
Lead	0.0500			0.0508	mg/L		102	(80%-120%)		
Lithium	0.0500			0.0466	mg/L		93.2	(80%-120%)		
Magnesium	2.00			1.90	mg/L		94.8	(80%-120%)		
Manganese	0.0500			0.0485	mg/L		96.9	(80%-120%)		
Molybdenum	0.0500			0.0512	mg/L		102	(80%-120%)		
Potassium	2.00			2.08	mg/L		104	(80%-120%)		
Selenium	0.0500			0.0508	mg/L		102	(80%-120%)		
Sodium	2.00			1.97	mg/L		98.4	(80%-120%)		
Thallium	0.0500			0.0493	mg/L		98.6	(80%-120%)		
QC1205499174 MB										
Antimony			U	ND	mg/L					09/08/23 11:17
Arsenic			U	ND	mg/L					
Barium			U	ND	mg/L					
Beryllium			U	ND	mg/L					
Boron			U	ND	mg/L					

QC Summary

Workorder: **634650**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2482707										
Cadmium			U	ND	mg/L				PRB	09/08/23 11:17
Calcium			U	ND	mg/L					
Chromium			U	ND	mg/L					
Cobalt			U	ND	mg/L					
Iron			U	ND	mg/L					
Lead			U	ND	mg/L					
Lithium			U	ND	mg/L					
Magnesium			U	ND	mg/L					
Manganese			U	ND	mg/L					
Molybdenum			U	ND	mg/L					
Potassium			U	ND	mg/L					
Selenium			U	ND	mg/L					
Sodium			U	ND	mg/L					
Thallium			U	ND	mg/L					
QC1205499176 634650001 MS										
Antimony	0.0500	U	ND	0.0527	mg/L		105	(75%-125%)		09/08/23 13:21

QC Summary

Workorder: **634650**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2482707											
Arsenic	0.0500	U	ND		0.0551	mg/L		107	(75%-125%)	PRB	09/08/23 13:21
Barium	0.0500		0.0149		0.0690	mg/L		108	(75%-125%)		
Beryllium	0.0500	U	ND		0.0508	mg/L		102	(75%-125%)		
Boron	0.100		0.430		0.549	mg/L		N/A	(75%-125%)		09/08/23 11:34
Cadmium	0.0500	J	0.000679		0.0526	mg/L		104	(75%-125%)		09/08/23 13:21
Calcium	2.00		217		222	mg/L		N/A	(75%-125%)		09/08/23 11:34
Chromium	0.0500	U	ND		0.0505	mg/L		100	(75%-125%)		09/08/23 13:21
Cobalt	0.0500		0.0259		0.0776	mg/L		104	(75%-125%)		
Iron	2.00		0.136		2.16	mg/L		101	(75%-125%)		
Lead	0.0500	U	ND		0.0514	mg/L		103	(75%-125%)		
Lithium	0.0500		0.0221		0.0704	mg/L		96.6	(75%-125%)		
Magnesium	2.00		133		137	mg/L		N/A	(75%-125%)		09/08/23 11:34
Manganese	0.0500		49.9		51.3	mg/L		N/A	(75%-125%)		09/08/23 11:50
Molybdenum	0.0500	U	ND		0.0562	mg/L		112	(75%-125%)		09/08/23 13:21
Potassium	2.00		11.2		13.4	mg/L		N/A	(75%-125%)		

QC Summary

Workorder: **634650**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2482707											
Selenium	0.0500	U	ND		0.0554	mg/L		108	(75%-125%)	PRB	09/08/23 13:21
Sodium	2.00		43.6		46.1	mg/L		N/A	(75%-125%)		
Thallium	0.0500	U	ND		0.0505	mg/L		101	(75%-125%)		
QC1205499177 634650001 MSD											
Antimony	0.0500	U	ND		0.0526	mg/L	0.167	105	(0%-20%)		09/08/23 13:24
Arsenic	0.0500	U	ND		0.0552	mg/L	0.131	107	(0%-20%)		
Barium	0.0500		0.0149		0.0700	mg/L	1.5	110	(0%-20%)		
Beryllium	0.0500	U	ND		0.0509	mg/L	0.185	102	(0%-20%)		
Boron	0.100		0.430		0.530	mg/L	3.51	N/A	(0%-20%)		09/08/23 11:37
Cadmium	0.0500	J	0.000679		0.0533	mg/L	1.38	105	(0%-20%)		09/08/23 13:24
Calcium	2.00		217		222	mg/L	0.0188	N/A	(0%-20%)		09/08/23 11:37
Chromium	0.0500	U	ND		0.0513	mg/L	1.54	102	(0%-20%)		09/08/23 13:24
Cobalt	0.0500		0.0259		0.0786	mg/L	1.3	106	(0%-20%)		
Iron	2.00		0.136		2.20	mg/L	1.59	103	(0%-20%)		
Lead	0.0500	U	ND		0.0522	mg/L	1.56	104	(0%-20%)		
Lithium	0.0500		0.0221		0.0711	mg/L	0.982	98	(0%-20%)		

QC Summary

Workorder: **634650**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2482707											
Magnesium	2.00		133		136	mg/L	0.591	N/A	(0%-20%)	PRB	09/08/23 11:37
Manganese	0.0500		49.9		51.7	mg/L	0.658	N/A	(0%-20%)		09/08/23 11:53
Molybdenum	0.0500	U	ND		0.0564	mg/L	0.314	113	(0%-20%)		09/08/23 13:24
Potassium	2.00		11.2		13.5	mg/L	0.441	N/A	(0%-20%)		
Selenium	0.0500	U	ND		0.0562	mg/L	1.52	110	(0%-20%)		
Sodium	2.00		43.6		46.9	mg/L	1.78	N/A	(0%-20%)		
Thallium	0.0500	U	ND		0.0510	mg/L	0.921	102	(0%-20%)		
QC1205499178 634650001 SDILT											
Antimony		U	ND	U	ND	ug/L	N/A		(0%-20%)		09/08/23 13:30
Arsenic		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Barium			14.9	J	2.93	ug/L	2.02		(0%-20%)		
Beryllium		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Boron			86.1		19.1	ug/L	10.8		(0%-20%)		09/08/23 11:44
Cadmium		J	0.679	U	ND	ug/L	N/A		(0%-20%)		09/08/23 13:30
Calcium			43400		8860	ug/L	2.09		(0%-20%)		09/08/23 11:44
Chromium		U	ND	U	ND	ug/L	N/A		(0%-20%)		09/08/23 13:30

QC Summary

Workorder: **634650**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2482707										
Cobalt		25.9		5.46	ug/L	5.64		(0%-20%)	PRB	09/08/23 13:30
Iron		136	U	ND	ug/L	N/A		(0%-20%)		
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Lithium		22.1	J	4.79	ug/L	8.29		(0%-20%)		
Magnesium		26700		5680	ug/L	6.41		(0%-20%)		09/08/23 11:44
Manganese		499		105	ug/L	5.59		(0%-20%)		09/08/23 11:56
Molybdenum	U	ND	U	ND	ug/L	N/A		(0%-20%)		09/08/23 13:30
Potassium		11200		2280	ug/L	1.26		(0%-20%)		
Selenium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Sodium		43600		9440	ug/L	8.17		(0%-20%)		
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Metals Analysis-Mercury										
Batch 2483666										
QC1205500954 LCS										
Mercury	0.00200			0.00207	mg/L		103	(80%-120%)	AXS5	08/29/23 11:03
QC1205500952 MB										
Mercury			U	ND	mg/L					08/29/23 11:02
QC1205500956 634765001 MS										
Mercury	0.0200	U		ND	0.0207	mg/L	103	(75%-125%)		08/29/23 11:37

QC Summary

Workorder: **634650**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis-Mercury											
Batch 2483666											
QC1205500957 634765001 MSD											
Mercury	0.0200	U	ND		0.0210	mg/L	1.82	105	(0%-20%)	AXS5	08/29/23 11:39
QC1205500958 634765001 SDILT											
Mercury		U	ND	U	ND	ug/L	N/A		(0%-10%)		08/29/23 11:41
Solids Analysis											
Batch 2484234											
QC1205502076 634643001 DUP											
Total Dissolved Solids			1270		1280	mg/L	0.94		(0%-5%)	CH6	08/29/23 16:03
QC1205502074 LCS											
Total Dissolved Solids	300				301	mg/L		100	(95%-105%)		08/29/23 16:03
QC1205502073 MB											
Total Dissolved Solids				U	ND	mg/L					08/29/23 16:03
Batch 2484583											
QC1205502645 634927001 DUP											
Total Dissolved Solids		U	ND	U	ND	mg/L	N/A			CH6	08/30/23 15:42
QC1205502641 LCS											
Total Dissolved Solids	300				300	mg/L		100	(95%-105%)		08/30/23 15:42
QC1205502642 LCSD											
Total Dissolved Solids	300				304	mg/L	1.32	101	(0%-5%)		08/30/23 15:42
QC1205502640 MB											
Total Dissolved Solids				U	ND	mg/L					08/30/23 15:42
Spectrometric Analysis											
Batch 2482961											
QC1205499656 LCS											
Total Sulfide	0.400				0.399	mg/L		99.7	(85%-115%)	JW2	08/25/23 10:42

QC Summary

Workorder: 634650

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Spectrometric Analysis										
Batch 2482961										
QC1205499655 MB										
Total Sulfide			U	ND	mg/L				JW2	08/25/23 10:42
QC1205499657 634513005 PS										
Total Sulfide	0.400	U ND		0.389	mg/L		96.4	(75%-125%)		08/25/23 10:48
QC1205499658 634513005 PSD										
Total Sulfide	0.400	U ND		0.391	mg/L	0.511	96.9	(0%-15%)		08/25/23 10:48
Batch 2483779										
QC1205501209 LCS										
Total Sulfide	0.400			0.398	mg/L		99.4	(85%-115%)	JW2	08/28/23 12:54
QC1205501208 MB										
Total Sulfide			U	ND	mg/L					08/28/23 12:54
QC1205501210 634615002 PS										
Total Sulfide	0.400	U ND		0.118	mg/L		29.4*	(75%-125%)		08/28/23 12:55
QC1205501212 634650011 PS										
Total Sulfide	0.400	U ND		0.111	mg/L		27.7*	(75%-125%)		08/28/23 12:59
QC1205501211 634615002 PSD										
Total Sulfide	0.400	U ND		0.113	mg/L	3.73	28.3*	(0%-15%)		08/28/23 12:55
QC1205501213 634650011 PSD										
Total Sulfide	0.400	U ND		0.109	mg/L	1.96	27.2*	(0%-15%)		08/28/23 13:00
Titration and Ion Analysis										
Batch 2486265										
QC1205505688 LCS										
Alkalinity, Total as CaCO3	50.0			51.7	mg/L		103	(90%-110%)	JW2	09/01/23 10:39

QC Summary

Workorder: **634650**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Titration and Ion Analysis										
Batch 2486265										
QC1205505709 LCS										
Alkalinity, Total as CaCO3	15.0			15.1	mg/L		101	(90%-110%)	JW2	09/01/23 10:41
QC1205506026 LCSD										
Alkalinity, Total as CaCO3	50.0			51.5	mg/L	0.388	103	(0%-20%)		09/01/23 10:40
QC1205506194 LCSD										
Alkalinity, Total as CaCO3	15.0			15.4	mg/L	1.97	103	(0%-20%)		09/01/23 10:42

Notes:

The Qualifiers in this report are defined as follows:

U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
N	Metals--The Matrix spike sample recovery is not within specified control limits
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
Z	Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
d	5-day BOD--The 2:1 depletion requirement was not met for this sample
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
E	%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
E	General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
FB	Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
R	Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.

QC Summary

Workorder: **634650**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

B The target analyte was detected in the associated blank.

e 5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes

J See case narrative for an explanation

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Technical Case Narrative
Georgia Power Company
SDG #: 634768

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2483979

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 14
Preparation Batch: 2483978

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
634768001	BRA-APBCD-FD-03
634768002	BRA-APBCD-EB-05
634768003	BRA-BRGWC-27I
634768004	BRA-BRGWC-45
634768005	BRA-PZ-75I
634768006	BRA-PZ-74I
634768007	BRA-BRGWC-29I
634768008	BRA-PZ-51D
634768009	BRA-APBCD-FB-03
634768010	BRA-APBCD-EB-06
634768011	BRA-BRGWC-52I
634768012	BRA-BRGWC-47
634768013	BRA-BRGWC-25I
1205501591	Method Blank (MB)**ICP-MS**
1205501592	Laboratory Control Sample (LCS)
1205501595	634768003(BRA-BRGWC-27IL) Serial Dilution (SD)
1205501593	634768003(BRA-BRGWC-27IS) Matrix Spike (MS)
1205501594	634768003(BRA-BRGWC-27ISD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

CRDL/PQL Requirements
The CRDL standard recoveries for SW846 6020B met the advisory control limits with the exception of calcium. Client sample concentrations were less than the MDL or greater than two times the CRDL; therefore the data were not adversely affected. 634768001 (BRA-APBCD-FD-03), 634768002 (BRA-APBCD-EB-05), 634768003 (BRA-BRGWC-27I), 634768004 (BRA-BRGWC-45), 634768005 (BRA-PZ-75I), 634768006 (BRA-PZ-74I), 634768007 (BRA-BRGWC-29I), 634768008 (BRA-PZ-51D), 634768009 (BRA-APBCD-FB-03), 634768011

(BRA-BRGWC-52I), 634768012 (BRA-BRGWC-47) and 634768013 (BRA-BRGWC-25I).

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples 634768003 (BRA-BRGWC-27I), 634768005 (BRA-PZ-75I), 634768006 (BRA-PZ-74I), 634768007 (BRA-BRGWC-29I), 634768008 (BRA-PZ-51D), 634768011 (BRA-BRGWC-52I), 634768012 (BRA-BRGWC-47) and 634768013 (BRA-BRGWC-25I) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument.

Analyte	634768							
	003	**005**	**006**	**007**	**008**	**011**	**012**	**013**
Boron	20X	20X	20X	20X	1X	20X	10X	20X
Calcium	20X	1X	20X	20X	20X	1X	10X	20X
Magnesium	1X	1X	1X	1X	1X	1X	10X	1X
Manganese	1X	1X	1X	20X	20X	1X	1X	20X
Sodium	1X	1X	1X	1X	20X	1X	1X	1X

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**
Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 40
Analytical Batch: 2483668

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 40
Preparation Batch: 2483667

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
634768001	BRA-APBCD-FD-03
634768002	BRA-APBCD-EB-05
634768003	BRA-BRGWC-27I
634768004	BRA-BRGWC-45
634768005	BRA-PZ-75I
634768006	BRA-PZ-74I
634768007	BRA-BRGWC-29I
634768008	BRA-PZ-51D
634768009	BRA-APBCD-FB-03
634768010	BRA-APBCD-EB-06
634768011	BRA-BRGWC-52I
634768012	BRA-BRGWC-47
634768013	BRA-BRGWC-25I
1205500963	Method Blank (MB)**CVAA**

1205500964	Laboratory Control Sample (LCS)
1205500967	634563009(NonSDGL) Serial Dilution (SD)
1205500965	634563009(NonSDGD) Sample Duplicate (DUP)
1205500966	634563009(NonSDGS) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

General Chemistry

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 33
Analytical Batch: 2483105

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
634768001	BRA-APBCD-FD-03
634768002	BRA-APBCD-EB-05
634768003	BRA-BRGWC-27I
634768004	BRA-BRGWC-45
634768005	BRA-PZ-75I
634768006	BRA-PZ-74I
634768007	BRA-BRGWC-29I
1205499910	Method Blank (MB)
1205499911	Laboratory Control Sample (LCS)
1205499912	634768007(BRA-BRGWC-29I) Sample Duplicate (DUP)
1205499913	634768007(BRA-BRGWC-29I) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Sample Dilutions
The following samples 1205499912 (BRA-BRGWC-29IDUP), 1205499913 (BRA-BRGWC-29IPS), 634768001 (BRA-APBCD-FD-03), 634768003 (BRA-BRGWC-27I), 634768004 (BRA-BRGWC-45), 634768005 (BRA-PZ-75I), 634768006 (BRA-PZ-74I) and 634768007 (BRA-BRGWC-29I) were diluted because target analyte concentrations exceeded the calibration range. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	634768					
	001	**003**	**004**	**005**	**006**	**007**
Chloride	10X	1X	10X	1X	25X	1X
Sulfate	10X	10X	10X	20X	25X	25X

Miscellaneous Information

Manual Integrations
Samples 634768001 (BRA-APBCD-FD-03) and 634768004 (BRA-BRGWC-45) were manually integrated to correctly position the baseline as set in the calibration standards.

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 33
Analytical Batch: 2483150

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
634768008	BRA-PZ-51D
634768009	BRA-APBCD-FB-03
634768010	BRA-APBCD-EB-06
634768011	BRA-BRGWC-52I
634768012	BRA-BRGWC-47
634768013	BRA-BRGWC-25I
1205499978	Method Blank (MB)
1205499979	Laboratory Control Sample (LCS)
1205499980	634784001(BRA-PZ-53D) Sample Duplicate (DUP)
1205499981	634784001(BRA-PZ-53D) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Sample Dilutions
The following samples 1205499980 (BRA-PZ-53DDUP), 1205499981 (BRA-PZ-53DPS), 634768008 (BRA-PZ-51D), 634768011 (BRA-BRGWC-52I), 634768012 (BRA-BRGWC-47) and 634768013 (BRA-BRGWC-25I) were diluted because target analyte concentrations exceeded the calibration range. The following sample 634768011 (BRA-BRGWC-52I) in this sample group was diluted due to matrix interference. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	634768			
	008	**011**	**012**	**013**

Chloride	40X	1X	1X	1X
Fluoride	1X	2X	1X	1X
Sulfate	40X	10X	200X	20X

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 21
Analytical Batch: 2484591

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
634768001	BRA-APBCD-FD-03
1205502654	Method Blank (MB)
1205502655	Laboratory Control Sample (LCS)
1205502656	634511009(NonSDG) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Duplicate Relative Percent Difference (RPD) Statement
The Relative Percent Difference (RPD) between the sample and duplicate falls outside of the established acceptance limits because of the heterogeneous matrix of the sample:

Analyte	Sample	Value
Total Dissolved Solids	1205502656 (Non SDG 634511009DUP)	5.63* (0%-5%)

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 21
Analytical Batch: 2484594

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
634768002	BRA-APBCD-EB-05
634768003	BRA-BRGWC-27I
634768004	BRA-BRGWC-45
634768005	BRA-PZ-75I
634768006	BRA-PZ-74I

634768007	BRA-BRGWC-29I
634768008	BRA-PZ-51D
634768009	BRA-APBCD-FB-03
634768010	BRA-APBCD-EB-06
634768011	BRA-BRGWC-52I
634768012	BRA-BRGWC-47
634768013	BRA-BRGWC-25I
1205502663	Method Blank (MB)
1205502664	Laboratory Control Sample (LCS)
1205502665	634784001(BRA-PZ-53D) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments
A TDS meter was used to check the samples for interference prior to analysis. 634768008 (BRA-PZ-51D) and 634768012 (BRA-BRGWC-47).

Product: **Sulfide, Total**
Analytical Method: SM 4500-S (2-) D
Analytical Procedure: GL-GC-E-052 REV# 13
Analytical Batch: 2483133

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
634768001	BRA-APBCD-FD-03
634768002	BRA-APBCD-EB-05
634768004	BRA-BRGWC-45
634768006	BRA-PZ-74I
634768008	BRA-PZ-51D
634768009	BRA-APBCD-FB-03
634768010	BRA-APBCD-EB-06
634768011	BRA-BRGWC-52I
634768012	BRA-BRGWC-47
634768013	BRA-BRGWC-25I
1205499946	Method Blank (MB)
1205499947	Laboratory Control Sample (LCS)
1205499950	634768004(BRA-BRGWC-45) Post Spike (PS)
1205499951	634768004(BRA-BRGWC-45) Post Spike Duplicate (PSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where

applicable, with the following exceptions.

Quality Control (QC) Information

Matrix Spike (MS)/Post Spike (PS) Recovery Statement
The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Total Sulfide	1205499950 (BRA-BRGWC-45PS)	65.8* (75%-125%)
	1205499951 (BRA-BRGWC-45PSD)	67.5* (75%-125%)

Product: **Sulfide, Total**
Analytical Method: SM 4500-S (2-) D
Analytical Procedure: GL-GC-E-052 REV# 13
Analytical Batch: 2483779

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
634768003	BRA-BRGWC-27I
634768005	BRA-PZ-75I
634768007	BRA-BRGWC-29I
1205501208	Method Blank (MB)
1205501209	Laboratory Control Sample (LCS)
1205501210	634615002(BRA-BRGWC-35S) Post Spike (PS)
1205501211	634615002(BRA-BRGWC-35S) Post Spike Duplicate (PSD)
1205501212	634650011(BRA-BRGWC-50) Post Spike (PS)
1205501213	634650011(BRA-BRGWC-50) Post Spike Duplicate (PSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Matrix Spike (MS)/Post Spike (PS) Recovery Statement
The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Total Sulfide	1205501210 (BRA-BRGWC-35SPS)	29.4* (75%-125%)
	1205501211 (BRA-BRGWC-35SPSD)	28.3* (75%-125%)

	1205501212 (BRA-BRGWC-50PS)	27.7* (75%-125%)
	1205501213 (BRA-BRGWC-50PSD)	27.2* (75%-125%)

Product: **Alkalinity**
Analytical Method: SM 2320B
Analytical Procedure: GL-GC-E-033 REV# 15
Analytical Batch: 2486267

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
634768001	BRA-APBCD-FD-03
634768002	BRA-APBCD-EB-05
634768003	BRA-BRGWC-27I
634768004	BRA-BRGWC-45
634768005	BRA-PZ-75I
634768006	BRA-PZ-74I
634768007	BRA-BRGWC-29I
634768008	BRA-PZ-51D
634768009	BRA-APBCD-FB-03
634768010	BRA-APBCD-EB-06
634768011	BRA-BRGWC-52I
634768012	BRA-BRGWC-47
634768013	BRA-BRGWC-25I
1205505693	Laboratory Control Sample (LCS)
1205505710	Laboratory Control Sample (LCS)
1205506027	Laboratory Control Sample Duplicate (LCSD)
1205506195	Laboratory Control Sample Duplicate (LCSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Laboratory Control Sample Duplicate (LCSD)
An LCSD was used in place of matrix QC due to limited sample volume. 634768001 (BRA-APBCD-FD-03), 634768002 (BRA-APBCD-EB-05), 634768003 (BRA-BRGWC-27I), 634768004 (BRA-BRGWC-45), 634768005 (BRA-PZ-75I), 634768006 (BRA-PZ-74I), 634768007 (BRA-BRGWC-29I), 634768008 (BRA-PZ-51D), 634768009 (BRA-APBCD-FB-03), 634768010 (BRA-APBCD-EB-06), 634768011 (BRA-BRGWC-52I), 634768012 (BRA-BRGWC-47) and 634768013 (BRA-BRGWC-25I).

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Technical Case Narrative
Georgia Power Company
SDG #: 634650

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2482707

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 14
Preparation Batch: 2482706

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
634650001	BRA-PZ-51I
634650002	BRA-PZ-58I
634650004	BRA-PZ-60I
634650005	BRA-PZ-63I
634650006	BRA-PZ-64I
634650007	BRA-PZ-68D
634650008	BRA-APBCD-FB-02
634650009	BRA-APBCD-FD-01
634650010	BRA-APBCD-FD-02
634650011	BRA-BRGWC-50
634650012	BRA-APBCD-EB-04
634650013	BRA-PZ-44
634650014	BRA-PZ-50D
1205499174	Method Blank (MB)**ICP-MS**
1205499175	Laboratory Control Sample (LCS)
1205499178	634650001(BRA-PZ-51IL) Serial Dilution (SD)
1205499176	634650001(BRA-PZ-51IS) Matrix Spike (MS)
1205499177	634650001(BRA-PZ-51ISD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples 634650001 (BRA-PZ-51I), 634650002 (BRA-PZ-58I), 634650004 (BRA-PZ-60I), 634650005 (BRA-PZ-63I), 634650006 (BRA-PZ-64I), 634650007 (BRA-PZ-68D), 634650009 (BRA-APBCD-FD-01), 634650010 (BRA-APBCD-FD-02), 634650011 (BRA-BRGWC-50), 634650013 (BRA-PZ-44) and 634650014 (BRA-PZ-50D) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument. Per the SOP, samples 634650005 (BRA-PZ-63I), 634650009 (BRA-APBCD-FD-01), 634650010 (BRA-APBCD-FD-02), 634650011 (BRA-BRGWC-50) and 634650014 (BRA-PZ-50D) were diluted due to internal standard recoveries outside the acceptable control limits.

Analyte	634650									
	001	002	004	005	006	007	009	010	011	013
Beryllium	1X	5X	1X	10X	1X	1X	5X	10X	5X	1X
Boron	5X	5X	10X	10X	1X	5X	5X	10X	5X	10X
Calcium	5X	5X	10X	10X	10X	5X	5X	10X	5X	1X
Cobalt	1X	5X	10X	1X	1000X	1X	5X	1X	5X	1X
Iron	1X	5X	1X	1X	1X	1X	1X	1X	1X	1X
Magnesium	5X	5X	10X	10X	10X	1X	5X	10X	5X	1X
Manganese	100X	100X	1000X	10X	1000X	5X	100X	10X	100X	1X
Potassium	1X	1X	10X	1X	10X	5X	1X	1X	5X	1X
Sodium	1X	5X	10X	10X	10X	5X	5X	10X	5X	1X

Analyte	634650
	014
Beryllium	5X
Boron	5X
Calcium	5X
Magnesium	5X
Manganese	5X
Potassium	5X
Sodium	5X

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**
Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 40
Analytical Batch: 2483666

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 40
Preparation Batch: 2483665

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
634650001	BRA-PZ-51I

634650002	BRA-PZ-58I
634650004	BRA-PZ-60I
634650005	BRA-PZ-63I
634650006	BRA-PZ-64I
634650007	BRA-PZ-68D
634650008	BRA-APBCD-FB-02
634650009	BRA-APBCD-FD-01
634650010	BRA-APBCD-FD-02
634650011	BRA-BRGWC-50
634650012	BRA-APBCD-EB-04
634650013	BRA-PZ-44
634650014	BRA-PZ-50D
1205500952	Method Blank (MB)**CVAA**
1205500954	Laboratory Control Sample (LCS)
1205500958	634765001(NonSDGL) Serial Dilution (SD)
1205500956	634765001(NonSDGS) Matrix Spike (MS)
1205500957	634765001(NonSDGSD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Preparation Information
Samples in this SDG were prepared at a ten times dilution factor due to the miscellaneous liquid classification. 1205500956 (Non SDG 634765001MS), 1205500957 (Non SDG 634765001MSD) and 1205500958 (Non SDG 634765001SDILT).

General Chemistry

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 33
Analytical Batch: 2482641

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
634650001	BRA-PZ-51I
634650002	BRA-PZ-58I
634650004	BRA-PZ-60I
634650006	BRA-PZ-64I
1205499054	Method Blank (MB)
1205499055	Laboratory Control Sample (LCS)
1205499056	634643001(BRA-PZ-79) Sample Duplicate (DUP)
1205499057	634643001(BRA-PZ-79) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Sample Dilutions
The following samples 1205499056 (BRA-PZ-79DUP), 1205499057 (BRA-PZ-79PS), 634650001 (BRA-PZ-51I), 634650002 (BRA-PZ-58I), 634650004 (BRA-PZ-60I) and 634650006 (BRA-PZ-64I) were diluted because target analyte concentrations exceeded the calibration range. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	634650			
	001	**002**	**004**	**006**
Chloride	1X	5X	10X	20X
Sulfate	100X	100X	200X	200X

Miscellaneous Information

Manual Integrations
Samples 634650001 (BRA-PZ-51I), 634650002 (BRA-PZ-58I) and 634650004 (BRA-PZ-60I) were manually integrated to correctly position the baseline as set in the calibration standards.

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 33
Analytical Batch: 2482649

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
634650005	BRA-PZ-63I
634650007	BRA-PZ-68D
634650008	BRA-APBCD-FB-02
634650009	BRA-APBCD-FD-01
634650010	BRA-APBCD-FD-02
634650011	BRA-BRGWC-50
634650012	BRA-APBCD-EB-04
634650013	BRA-PZ-44
634650014	BRA-PZ-50D
1205499058	Method Blank (MB)
1205499059	Laboratory Control Sample (LCS)
1205499060	634519001(NonSDG) Sample Duplicate (DUP)
1205499061	634519001(NonSDG) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Matrix Spike (MS)/Post Spike (PS) Recovery Statement
The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Sulfate	1205499061 (Non SDG 634519001PS)	157* (90%-110%)

Technical Information

Sample Dilutions
The following samples 1205499060 (Non SDG 634519001DUP), 1205499061 (Non SDG 634519001PS), 634650005 (BRA-PZ-63I), 634650007 (BRA-PZ-68D), 634650009 (BRA-APBCD-FD-01), 634650010 (BRA-APBCD-FD-02), 634650011 (BRA-BRGWC-50), 634650013 (BRA-PZ-44) and 634650014 (BRA-PZ-50D) were diluted because target analyte concentrations exceeded the calibration range. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	634650						
	005	007	009	010	011	013	014
Chloride	1X	25X	5X	1X	5X	1X	5X
Sulfate	25X	25X	200X	25X	200X	5X	100X

Miscellaneous Information

Manual Integrations
Samples 1205499060 (Non SDG 634519001DUP), 1205499061 (Non SDG 634519001PS), 634650005 (BRA-PZ-63I), 634650007 (BRA-PZ-68D), 634650009 (BRA-APBCD-FD-01), 634650010 (BRA-APBCD-FD-02), 634650011 (BRA-BRGWC-50), 634650013 (BRA-PZ-44) and 634650014 (BRA-PZ-50D) were manually integrated to correctly position the baseline as set in the calibration standards.

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 21
Analytical Batch: 2484234

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
634650001	BRA-PZ-51I
634650002	BRA-PZ-58I

634650004	BRA-PZ-60I
634650005	BRA-PZ-63I
634650006	BRA-PZ-64I
1205502073	Method Blank (MB)
1205502074	Laboratory Control Sample (LCS)
1205502076	634643001(BRA-PZ-79) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments
A TDS meter was used to check the samples for interference prior to analysis. 1205502076 (BRA-PZ-79DUP), 634650001 (BRA-PZ-51I), 634650002 (BRA-PZ-58I), 634650004 (BRA-PZ-60I) and 634650006 (BRA-PZ-64I).

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 21
Analytical Batch: 2484583

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
634650007	BRA-PZ-68D
634650008	BRA-APBCD-FB-02
634650009	BRA-APBCD-FD-01
634650010	BRA-APBCD-FD-02
634650011	BRA-BRGWC-50
634650012	BRA-APBCD-EB-04
634650013	BRA-PZ-44
634650014	BRA-PZ-50D
1205502640	Method Blank (MB)
1205502641	Laboratory Control Sample (LCS)
1205502642	Laboratory Control Sample Duplicate (LCSD)
1205502645	634927001(NonSDG) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments

A TDS meter was used to check the samples for interference prior to analysis. 634650009 (BRA-APBCD-FD-01), 634650011 (BRA-BRGWC-50) and 634650014 (BRA-PZ-50D).

Product: **Sulfide, Total**
Analytical Method: SM 4500-S (2-) D
Analytical Procedure: GL-GC-E-052 REV# 13
Analytical Batch: 2482961

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
634650008	BRA-APBCD-FB-02
634650009	BRA-APBCD-FD-01
634650012	BRA-APBCD-EB-04
634650013	BRA-PZ-44
1205499655	Method Blank (MB)
1205499656	Laboratory Control Sample (LCS)
1205499657	634513005(NonSDG) Post Spike (PS)
1205499658	634513005(NonSDG) Post Spike Duplicate (PSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **Sulfide, Total**
Analytical Method: SM 4500-S (2-) D
Analytical Procedure: GL-GC-E-052 REV# 13
Analytical Batch: 2483779

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
634650001	BRA-PZ-51I
634650002	BRA-PZ-58I
634650003	BRA-PZ-59I
634650004	BRA-PZ-60I
634650005	BRA-PZ-63I
634650006	BRA-PZ-64I
634650007	BRA-PZ-68D
634650010	BRA-APBCD-FD-02
634650011	BRA-BRGWC-50
634650014	BRA-PZ-50D
1205501208	Method Blank (MB)
1205501209	Laboratory Control Sample (LCS)
1205501210	634615002(BRA-BRGWC-35S) Post Spike (PS)
1205501211	634615002(BRA-BRGWC-35S) Post Spike Duplicate (PSD)
1205501212	634650011(BRA-BRGWC-50) Post Spike (PS)
1205501213	634650011(BRA-BRGWC-50) Post Spike Duplicate (PSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Matrix Spike (MS)/Post Spike (PS) Recovery Statement
The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Total Sulfide	1205501210 (BRA-BRGWC-35SPS)	29.4* (75%-125%)
	1205501211 (BRA-BRGWC-35SPSD)	28.3* (75%-125%)
	1205501212 (BRA-BRGWC-50PS)	27.7* (75%-125%)
	1205501213 (BRA-BRGWC-50PSD)	27.2* (75%-125%)

Product: **Alkalinity**
Analytical Method: SM 2320B
Analytical Procedure: GL-GC-E-033 REV# 15
Analytical Batch: 2486265

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
634650001	BRA-PZ-51I
634650002	BRA-PZ-58I
634650004	BRA-PZ-60I
634650005	BRA-PZ-63I
634650006	BRA-PZ-64I
634650007	BRA-PZ-68D
634650008	BRA-APBCD-FB-02
634650009	BRA-APBCD-FD-01
634650010	BRA-APBCD-FD-02
634650011	BRA-BRGWC-50
634650012	BRA-APBCD-EB-04
634650013	BRA-PZ-44
634650014	BRA-PZ-50D
1205505688	Laboratory Control Sample (LCS)
1205505709	Laboratory Control Sample (LCS)
1205506026	Laboratory Control Sample Duplicate (LCSD)
1205506194	Laboratory Control Sample Duplicate (LCSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Laboratory Control Sample Duplicate (LCSD)
An LCSD was used in place of matrix QC due to limited sample volume. 634650001 (BRA-PZ-51I), 634650002 (BRA-PZ-58I), 634650004 (BRA-PZ-60I), 634650005 (BRA-PZ-63I), 634650006 (BRA-PZ-64I), 634650007 (BRA-PZ-68D), 634650008 (BRA-APBCD-FB-02), 634650009 (BRA-APBCD-FD-01), 634650010 (BRA-APBCD-FD-02), 634650011 (BRA-BRGWC-50), 634650012 (BRA-APBCD-EB-04), 634650013 (BRA-PZ-44) and 634650014 (BRA-PZ-50D).

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Technical Case Narrative
Georgia Power Company
SDG #: 634444

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2482703

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 14
Preparation Batch: 2482702

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
634444003	BRA-BRGWA-23S
634444004	BRA-BRGWC-30I
634444005	BRA-BRGWC-32S
634444006	BRA-PZ-61I
634444007	BRA-APBCD-FB-01
1205499164	Method Blank (MB)**ICP-MS**
1205499165	Laboratory Control Sample (LCS)
1205499168	634441003(BRA-BRGWC-34SL) Serial Dilution (SD)
1205499166	634441003(BRA-BRGWC-34SS) Matrix Spike (MS)
1205499167	634441003(BRA-BRGWC-34SSD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples 634444004 (BRA-BRGWC-30I), 634444005 (BRA-BRGWC-32S) and 634444006 (BRA-PZ-61I) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument.

Analyte	634444		
	004	005	006
Boron	20X	10X	5X
Calcium	20X	1X	5X
Magnesium	20X	1X	5X
Manganese	20X	1X	500X
Sodium	1X	1X	10X

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**
Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 40
Analytical Batch: 2482624

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 40
Preparation Batch: 2482623

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
634444003	BRA-BRGWA-23S
634444004	BRA-BRGWC-30I
634444005	BRA-BRGWC-32S
634444006	BRA-PZ-61I
634444007	BRA-APBCD-FB-01
1205499044	Method Blank (MB)**CVAA**
1205499045	Laboratory Control Sample (LCS)
1205499048	634447002(BRA-BRGWA-5SL) Serial Dilution (SD)
1205499046	634447002(BRA-BRGWA-5SD) Sample Duplicate (DUP)
1205499047	634447002(BRA-BRGWA-5SS) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

General Chemistry

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 32
Analytical Batch: 2481584

Product: **Ion Chromatography**

Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 33
Analytical Batch: 2481584

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
634444003	BRA-BRGWA-23S
634444004	BRA-BRGWC-30I
634444005	BRA-BRGWC-32S
1205497352	Method Blank (MB)
1205497353	Laboratory Control Sample (LCS)
1205497354	634441001(BRA-BRGWC-33S) Sample Duplicate (DUP)
1205497355	634441001(BRA-BRGWC-33S) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Matrix Spike (MS)/Post Spike (PS) Recovery Statement
The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Chloride	1205497355 (BRA-BRGWC-33SPS)	88.9* (90%-110%)
Nitrate-N	1205497355 (BRA-BRGWC-33SPS)	88.7* (90%-110%)

Technical Information

Sample Dilutions
The following samples 1205497354 (BRA-BRGWC-33SDUP), 1205497355 (BRA-BRGWC-33SPS), 634444004 (BRA-BRGWC-30I) and 634444005 (BRA-BRGWC-32S) were diluted because target analyte concentrations exceeded the calibration range. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	634444	
	004	005
Sulfate	100X	25X

Miscellaneous Information

Manual Integrations
Samples 634444003 (BRA-BRGWA-23S) and 634444005 (BRA-BRGWC-32S) were manually integrated to

correctly position the baseline as set in the calibration standards.

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 32
Analytical Batch: 2481608

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 33
Analytical Batch: 2481608

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
634444006	BRA-PZ-61I
634444007	BRA-APBCD-FB-01
1205497368	Method Blank (MB)
1205497369	Laboratory Control Sample (LCS)
1205497371	634145003(NonSDG) Sample Duplicate (DUP)
1205497373	634145003(NonSDG) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Sample Dilutions
The following samples 1205497371 (Non SDG 634145003DUP), 1205497373 (Non SDG 634145003PS) and 634444006 (BRA-PZ-61I) were diluted because target analyte concentrations exceeded the calibration range. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	634444006
Chloride	5X
Sulfate	200X

Sample Re-analysis
Sample 634444007 (BRA-APBCD-FB-01) was re-analyzed due to (its) proximity to an overrange sample. The results from the reanalysis are reported.

Product: **Solids, Total Dissolved**

Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 21
Analytical Batch: 2482655

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
634444003	BRA-BRGWA-23S
634444004	BRA-BRGWC-30I
634444005	BRA-BRGWC-32S
634444006	BRA-PZ-61I
634444007	BRA-APBCD-FB-01
1205499075	Method Blank (MB)
1205499076	Laboratory Control Sample (LCS)
1205499077	634352015(NonSDG) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments
A TDS meter was used to check the samples for interference prior to analysis. 634444004 (BRA-BRGWC-30I) and 634444006 (BRA-PZ-61I).

Product: **Sulfide, Total**
Analytical Method: SM 4500-S (2-) D
Analytical Procedure: GL-GC-E-052 REV# 13
Analytical Batch: 2481696

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
634444001	BRA-PZ-57I
634444002	BRA-PZ-65I
634444003	BRA-BRGWA-23S
634444004	BRA-BRGWC-30I
634444005	BRA-BRGWC-32S
634444006	BRA-PZ-61I
634444007	BRA-APBCD-FB-01
1205497559	Method Blank (MB)
1205497560	Laboratory Control Sample (LCS)
1205497561	634441001(BRA-BRGWC-33S) Post Spike (PS)
1205497562	634441001(BRA-BRGWC-33S) Post Spike Duplicate (PSD)
1205497563	634447001(BRA-BRGWA-2S) Post Spike (PS)
1205497564	634447001(BRA-BRGWA-2S) Post Spike Duplicate (PSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **Alkalinity**
Analytical Method: SM 2320B
Analytical Procedure: GL-GC-E-033 REV# 15
Analytical Batch: 2482476

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
634444003	BRA-BRGWA-23S
634444004	BRA-BRGWC-30I
634444005	BRA-BRGWC-32S
634444006	BRA-PZ-61I
634444007	BRA-APBCD-FB-01
1205498938	Laboratory Control Sample (LCS)
1205499028	Laboratory Control Sample Duplicate (LCSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Laboratory Control Sample Duplicate (LCSD)
An LCSD was used in place of matrix QC due to limited sample volume. 634444003 (BRA-BRGWA-23S), 634444004 (BRA-BRGWC-30I), 634444005 (BRA-BRGWC-32S), 634444006 (BRA-PZ-61I) and 634444007 (BRA-APBCD-FB-01).

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

634652
634650

Page: _____ of _____
Project # _____
GEL Quote #: _____
COC Number (1): _____
PO Number:

GEL Laboratories LLC
gel.com
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power | Phone # 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - BCD | Fax #
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: D. Berisford ACC | Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS, NO3 EPA 300, SM 2540C	Total, Carb, & Bicarb Alk SM 2320B	Metals * EPA 6020, 6010, 7470 NI	Radium 226 & 228 SW-846 9315, 9320 NI	Sulfide SM 4500	<-- Preservative Type (6)
BRA- PZ-51I	08/23/23	1500	G	N	WG			8	✓	✓	✓	✓	✓	
BRA- PZ-58I	08/23/23	1510	G	N	WG			8	✓	✓	✓	✓	✓	
BRA- PZ-59I	08/23/23	1140	G	N	WG			1					✓	
BRA- PZ-60I	08/23/23	1325	G	N	WG			8	✓	✓	✓	✓	✓	
BRA- PZ-63I	08/23/23	1630	G	N	WG			8	✓	✓	✓	✓	✓	
BRA- PZ-64I	08/23/23	1055	G	N	WG			8	✓	✓	✓	✓	✓	
BRA- PZ-68D	08/23/23	1608	G	N	WG			8	✓	✓	✓	✓	✓	
BRA- APBCD-FB-02	08/23/23	1450	G	N	WQ			8	✓	✓	✓	✓	✓	
BRA- APBCD-FD-01	08/23/23	—	G	N	WG			8	✓	✓	✓	✓	✓	
BRA- APBCD-FD-02	08/23/23	—	G	N	WG			8	✓	✓	✓	✓	✓	

Comments
Note: extra sample is required for sample specific QC
Task_Code: BRA-CCR-ASSMT-2023S2

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1		8/24/23	0841		8/24/23	841
2		8/24/23	1241	per Erin	8/24/23	1243
3						

TAT Requested: Normal: x Rush: _____ Specify: _____ (Subject to Surcharge)

Fax Results: [ ] Yes [x] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [x] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * **Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] Yes [ ] No *Cooler Temp:* _____ °C

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **WD**=Drinking Water, **WG**=Groundwater, **WS**=Surface Water, **WW**=Waste Water, **WL**=Leachate, **SO**=Soil, **SE**=Sediment, **SL**=Sludge, **WQ**=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B, 6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

Page: _____ of _____
Project # _____
GEL Quote #: _____
COC Number (1): _____
PO Number:

GEL Laboratories LLC
gel.com
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number:

GEL Project Manager: Erin Trent

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power | Phone # 404-506-7116

Project/Site Name: Plant Branch Ash Ponds - BCD | Fax #

Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308

Collected By: J. Berry for ACC | Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS, NO3 EPA 300, SM 2540C	Total, Carb, & Bicarb Alk SM 2320B	NI Metals * EPA 6020, 6010, 7470	NI Radium 226 & 228 SW-846 9315, 9320	Sulfide SM 4500	<-- Preservative Type (6)
BRA- BR6WC-50	08/23/23	1100	G	N	WG			8	✓	✓	✓	✓	✓	
BRA- APBCD-EB-04	08/23/23	1135	G	N	WQ			8	✓	✓	✓	✓	✓	
BRA- P2-44	08/23/23	1640	G	N	WG			8	✓	✓	✓	✓	✓	
BRA- P2-50D	08/23/23	1230	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-														
BRA-														
BRA-														
BRA-														
BRA-														
BRA-														

Comments
Note: extra sample is required for sample specific QC
Task_Code: BRA-CCR-ASSMT-2023S2

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1		8/24/23	0841		8/24/23	841
2		8/24/23	1249		8/24/23	1243
3						

TAT Requested: Normal: x Rush: _____ Specify: _____ (Subject to Surcharge)

Fax Results: [ ] Yes [x] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [x] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* *Cooler Temp:* _____ °C

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.

4.) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. *8260B* - 3, *6010B/7470A* - 1).

6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic
Ba = Barium
Cd = Cadmium
Cr = Chromium
Pb = Lead
Hg= Mercury
Se= Selenium
Ag= Silver
MR= Misc. RCRA metals

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

634448 634643
634652 634650
634649
634 634648 634615

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: LaPCC	SDG/AR/COC/Work Order:
Received By: EG	Date Received: 8.24.23
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other Cooler 1 - 3° Cooler 3 - 3° Cooler 2 - 3° Cooler 4 - 2° Cooler 5 - 3°

Suspected Hazard Information	Yes	No	
			*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A) Shipped as a DOT Hazardous?		/	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		/	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		/	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 (CPM) mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?		/	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		/	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	/			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	/			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	/			Preservation Method: Wet Ice Ice Packs Dry Ice None Other: *all temperatures are recorded in Celsius TEMP: See coolers above & below for temps
4	Daily check performed and passed on IR temperature gun?	/			Temperature Device Serial #: IR8-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	/			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?			/	Sample ID's and Containers Affected: If Preservation added, Lot#: See continuation form
7	Do any samples require Volatile Analysis?				If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___ (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___ (If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	/			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	/			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	/			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	/			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	/			
13	COC form is properly signed in relinquished/received sections?	/			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

Cooler 6-1
Cooler 7-2
Cooler 8-4
Cooler 9-1

PM (or PMA) review: Initials AT Date 8/28/23 Page 1 of 2

GL-CHL-SR-001 Rev 7

GEL | Laboratories LLC **SAMPLE RECEIPT & REVIEW CONTINUATION FORM**

Client: GPCC Received By: EG Date Received: 8/24/23 SDG/AR/COC/Work Order: _____

BRA-P2-511
BRA-P2-591
BRA-BRGWC-355
BRA-BRGWC-365
BRA-APE-FB-05
BRA-P2-601
BRA-P2-581
BRA-P2-631
BRA-BRGWC-385
BRA-P2-641
BRA-P2-68D
BRA-APBLD-FD-02
BRA-P2-50D
BRA-BRGWC-50
BRA-APE-FD-05
L→ containers for sodium hydroxide/zinc acetate did not hold preservation. Were preserved & placed in 24 hr hold preservation

PM (or PMA) review: Initials AT Date 8/28/23 Page 2 of 2

Relog for Radium

ET

Page ____ of ____
Project # ____
GEL Quote # ____
COC Number (1): ____
PO Number ____

GEL Laboratories LLC
gel.com | Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power | Phone # 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - BCD | Fax #
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: ACC | Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS, NO3 EPA 300, SM4500	Total Ca, K, Reactivity SM 2320B	Metals* EPA 6020, 6010, 7470	Radium 226 & 228 SW-846 9315, 9320	Sulfide SM4500	<-- Preservative Type (6)	Comments
BRA-APBCD-FD-03 •	08/24/23	/	G	N	WG			8	✓	✓	✓	✓	✓		Note: extra sample is required for sample specific QC Task_Code: BRA-CCR-ASSMT-2023S2
BRA-APBCD-EB-05 •	08/24/23	0955	G	N	WQ			8	✓	✓	✓	✓	✓		
BRA-BRGWC-27I •	08/24/23	1225	G	N	WG			8	✓	✓	✓	✓	✓		
BRA-BRGWC-45 •	08/24/23	1206	G	N	WG			8	✓	✓	✓	✓	✓		
BRA-PZ-75I •	08/24/23	1051	G	N	WG			8	✓	✓	✓	✓	✓		
BRA-PZ-74I •	08/24/23	1415	G	N	WG			8	✓	✓	✓	✓	✓		
BRA-BRGWC-29I •	08/24/23	1520	G	N	WG			8	✓	✓	✓	✓	✓		
BRA-PZ-51D •	08/24/23	1100	G	N	WG			8	✓	✓	✓	✓	✓		
BRA-APBCD-FD-03 •	08/24/23	1255	G	N	WQ			8	✓	✓	✓	✓	✓		
BRA-APBCD-EB-06 • 10	08/24/23	1400	G	N	WQ			8	✓	✓	✓	✓	✓		

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1		08/24/23		1		0857
2				2		
3				3		

TAT Requested: Normal: x Rush: ____ Specify: ____ (Subject to Surcharge)
Fax Results: [ ] Yes [x] No
Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [x] Level 2 [ ] Level 3 [ ] Level 4
Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg
For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No *Cooler Temp:* ____ °C
> For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)
Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1) Chain of Custody Number = Client Determined
2) QC Codes N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite
3) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered
4) Matrix Codes WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix
5) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1)
6) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

7) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic Hg= Mercury
Ba = Barium Se= Selenium
Cd = Cadmium Ag= Silver
Cr = Chromium MR= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

634768 & 634781

Page: _____ of _____
Project #: _____
GEL Quote #: _____
COC Number (1): _____
PO Number: _____

GEL Laboratories LLC
gel.com
Chemistry | Radiochemistry | Radioassay | Specialty Analytes
Chain of Custody and Analytical Request

GEL Work Order Number: _____ GEL Project Manager: Erin Trent

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power | Phone # 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - BCD | Fax #
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: ACC | Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Hazardous (If yes, please supply hazardous info.)	Should this sample be considered: (X) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS, NO3 EPA 300, SM 2540C	Total, Carb, & Bicarb Alk SM 2320B	Metals * EPA 6020, 6010, 7470	Radium 226 & 228 SW-846 9315, 9320	Sulfide SM 4500	<-- Preservative Type (6)	Comments
BRA- BR6WC-52I *	08/24/23	1305	G	N	WG			8	✓	✓	✓	✓	✓		
BRA- BR6WC-47 *	08/24/23	1445	G	N	WG			8	✓	✓	✓	✓	✓		
BRA- BR6WC-25I * 13	08/24/23	1647	G	N	WG			8	✓	✓	✓	✓	✓		
BRA-															
BRA-															
BRA-															
BRA-															
BRA-															
BRA-															
BRA-															

Comments: Note: extra sample is required for sample specific QC. Task_Code: BRA-CCR-ASSMT-2023S2

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	8/24/23		1		0857
2			2		
3			3		

TAT Requested: Normal: X Rush: _____ Specify: _____ (Subject to Surcharge)
Fax Results: [ ] Yes [x] No
Select Deliverable: [ ] C of A [ ] QC Summary [ ] Level 1 [x] Level 2 [ ] Level 3 [ ] Level 4
Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg
For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No Cooler Temp: _____ °C
Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

> For sample shipping and delivery details, see Sample Receipt & Review form (SRR)

1) Chain of Custody Number = Client Determined
2) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite
3) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.
4) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix
5) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).
6) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservation is added = leave field blank

7) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic; Hg= Mercury
Ba = Barium; Se= Selenium
Cd = Cadmium; Ag= Silver
Cr = Chromium; MR= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s): _____

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description: _____

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

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Page: 1 of 2
Project #
GEL Quote #:
COC Number (1):
PO Number:

GEL Laboratories LLC
gel.com
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power | Phone # 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - BCD | Fax #
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: ACC | Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotope info.)	Should this sample be considered: (*) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS, NO3 EPA 300, SM 2540C	Total, Carb, & Bicarb Alk SM 2320B	Metals * EPA 6020, 6010, 7470 (NI)	Radium 226 & 228 SW-846 9315, 9320 (NI)	Sulfide SM 4500	<-- Preservative Type (6)
BRA-APBCD-FD-03	08/24/23		G	N	WG			8	✓	✓	✓	✓	✓	
BRA-APBCD-EB-05	08/24/23	0955	G	N	WQ			8	✓	✓	✓	✓	✓	
BRA-BRGWC-27I	08/24/23	1225	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-BRGWC-45	08/24/23	1206	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-PZ-75I	08/24/23	1051	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-PZ-74I	08/24/23	1415	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-BRGWC-29I	08/24/23	1520	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-PZ-51D	08/24/23	1100	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-APBCD-FB-03	08/24/23	1255	G	N	WQ			8	✓	✓	✓	✓	✓	
BRA-APBCD-EB-06	08/24/23	1400	G	N	WQ			8	✓	✓	✓	✓	✓	

Comments
Note: extra sample is required for sample specific QC
Task_Code: BRA-CCR-ASSMT-2023S2

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1		08/24/23	1730		08/24/23	1730
2		08/25/23	0857		8/24/23	0857
3						

TAT Requested: Normal: x Rush: ____ Specify: ____ (Subject to Surcharge)
Fax Results: [ ] Yes [x] No
Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [x] Level 2 [ ] Level 3 [ ] Level 4
Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg
For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No Cooler Temp: ____°C
Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR).*

Cooler 1 - 4°
Cooler 2 - 4°
Cooler 3 - 1°
Cooler 4 - 1°
Cooler 5 - 3°

1.) Chain of Custody Number = Client Determined
2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite
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5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).
6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic; Hg = Mercury
Ba = Barium; Se = Selenium
Cd = Cadmium; Ag = Silver
Cr = Chromium; MR = Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW = Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT = Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

Page: 2 of 2
Project #
GEL Quote #:
COC Number (1):
PO Number:

GEL Laboratories LLC

gel.com | Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power | Phone # 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - BCD | Fax #
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: ACC | Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (*For composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS, NO3 EPA 300, SM 2540C	Total Carb. & Dicarb Alk SM 2320B	NI Metals * EPA 6020, 6010, 7470	NI Radium 226 & 228 SW-846 9315, 9320	Sulfide SM 4500	<-- Preservative Type (6)
BRA- BRGWC-52I	08/24/23	1305	G	N	WG			8	✓	✓	✓	✓	✓	
BRA- BRGWC-47	08/24/23	1445	G	N	WG			8	✓	✓	✓	✓	✓	
BRA- BRGWC-25I	08/24/23	1647	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-														
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BRA-														
BRA-														
BRA-														
BRA-														

Comments
Note: extra sample is required for sample specific QC
Task_Code: BRA-CCR-ASSMT-2023S2

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1		8/24/23	1720		8/24/23	1730
2		8/25/23	0957		8/24/23	0857
3						

TAT Requested: Normal: x Rush: ____ Specify: _____ (Subject to Surcharge)

Fax Results: [ ] Yes [x] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [x] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg

For Lab Receiving Use Only: Custody Seal Intact? [ ] *Yes* [ ] *No* *Cooler Temp:* ____ °C

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR).*

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.

4.) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).

6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

Cooler 1-4
cooler 2-4
cooler 3-1
cooler 4-1
cooler 5-3

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic Hg = Mercury
Ba = Barium Se = Selenium
Cd = Cadmium Ag = Silver
Cr = Chromium MR = Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
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TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW = Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT = Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

ET

634784 634789 634768 634781

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	SDG/AR/COC/Work Order:
Received By: EG	Date Received: 8/25/23 0857
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other cooler 1 - 4° cooler 3 - 1° cooler 5 - 3° cooler 2 - 4° cooler 4 - 1°

Suspected Hazard Information	Yes	No	
			*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A) Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM / mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: Wet Ice Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: See above
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR6-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?			✓	Sample ID's and Containers Affected: If Preservation added, Lot#: See below
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?			✓	ID's and containers affected: COC says BRA-P2-74I bottles say BRA-P2-74
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):
Containers BRA-P2-75I, BRA-BRGWC-27I, BRA-P2-53D & BRA-BRGWC-29I preserved with NaOH/Zinc Acetate did not hold preservation

PM (or PMA) review: Initials AT Date 8/26/23 Page 1 of 1

GL-CHL-SR-001 Rev 7

634444 634446

Page: _____ of _____
Project # _____
GEL Quote #: _____
COC Number (1): _____
PO Number:

GEL Laboratories LLC
gel.com
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power | Phone # 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - BCD | Fax #
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: J. Bamford ACC | Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS, NO3 EPA 300, SM 2540C	Total, Carb, & Bicarb Alk SM 2320B	NI Metals * EPA 6020, 6010, 7470	NI Radium 226 & 228 SW-846 9315, 9320	Sulfide SM 4500	<-- Preservative Type (6)
BRA- PZ-57I	08/21/23	1755	G	N	WG			1					✓	
BRA- PZ-65I	08/21/23	1745	G	N	WG			1					✓	
BRA- BRGWA-23S	08/22/23	1240	G	N	WG			8	✓	✓	✓	✓	✓	
BRA- BR6WC-30I	08/22/23	1522	G	N	WG			8	✓	✓	✓	✓	✓	
BRA- BR6WC-32S	08/22/23	1420	G	N	WG			8	✓	✓	✓	✓	✓	
BRA- PZ-61I	08/22/23	1615	G	N	WG			8	✓	✓	✓	✓	✓	
BRA- APBCD-FB-01	08/22/23	1400	G	N	WQ			8	✓	✓	✓	✓	✓	
BRA-														
BRA-														
BRA-														

Comments
Note: extra sample is required for sample specific QC
Task_Code: BRA-CCR-ASSMT-2023S2

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1		8/24/23	0842		8/23/23	8:35
2		8/23/23	100		8/23/23	1300
3						

TAT Requested: Normal: x Rush: _____ Specify: _____ (Subject to Surcharge)

Fax Results: [ ] Yes [x] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [x] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * **Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* *Cooler Temp:* _____ °C

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **WD**=Drinking Water, **WG**=Groundwater, **WS**=Surface Water, **WW**=Waste Water, **WL**=Leachate, **SO**=Soil, **SE**=Sediment, **SL**=Sludge, **WQ**=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B, 6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

~~634444~~ 634643
634448 634447
634443 634450
634441 634444
634446

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: CDD	SDG/AR/COC/Work Order:
Received By: MVH	Date Received: 8-23-2023
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other Cooler 2-3°C Cooler 4-1°C Cooler 6-1°C Cooler 1-2°C Cooler 3-1°C Cooler 5-2°C

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A) Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM / mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: Wet Ice Ice Packs Dry Ice None Other: *all temperatures are recorded in Celsius TEMP:___
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR2-21 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?			✓	Sample ID's and Containers Affected: BRA-D2-G11, BRA-BRGWA-S1, BRA-BRGWA-23S, BRA-D2-13S, BRA-BRGWA-2S, BRA-BRGWA-6S, BRA-BRGWC-32S, BRA-BRGWA-21, BRA-BRGWC-37S, BRA-BRGWC-34S, BRA-BRGWC-30I Sulfide If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):
BRA-D2-13S, BRA-BRGWA-2S, BRA-BRGWA-6S, BRA-BRGWC-32S, BRA-BRGWA-21, BRA-BRGWC-37S, BRA-BRGWC-34S, BRA-BRGWC-30I Sulfide samples didn't hold proper preservation.

PM (or PMA) review: Initials AT Date 8/25/23 Page 1 of 1

GL-CHL-SR-001 Rev 7

Amanda Turner

From: Abraham, Joju <JABRAHAM@SOUTHERNCO.COM>
Sent: Friday, August 25, 2023 8:52 AM
To: Amanda Turner; Jurinko, Kristen Nichole; Smilley, Michael Jay; Gangi, Noelia S.; Midkiff, Laura B.
Cc: Team Trent
Subject: RE: Samples did not hold preservation (634441, 634443, 634444, 634446, 634447, 634450)

[EXTERNAL EMAIL] DO NOT CLICK links or attachments unless you recognize the sender and know the content is safe.

Re-preserve and analyze for sulfide in all samples.

JA

From: Amanda Turner <Amanda.Turner@gel.com>
Sent: Friday, August 25, 2023 8:29 AM
To: Abraham, Joju <JABRAHAM@SOUTHERNCO.COM>; Jurinko, Kristen Nichole <KNJURINK@SOUTHERNCO.COM>; Smilley, Michael Jay <MJSMILLE@SOUTHERNCO.COM>; Gangi, Noelia S. <NSMUSKUS@SOUTHERNCO.COM>; Midkiff, Laura B. <lbmidkif@southernco.com>
Cc: Team Trent <Team.Trent@gel.com>
Subject: Samples did not hold preservation (634441, 634443, 634444, 634446, 634447, 634450)

Good morning,

I wanted to notify you of the following preservation issues. These samples did not hold proper sulfide preservation. Please advise.

"BRA-GWC-34S" "BRA-BRGWC-37S" "BRA-PZ-13S" on work orders 634441 and 634443
“BRA-BRGWC-32S” “BRA-BRGWC-30I” "BRA-PZ-61I" "BRA-BRGWA-23S" on work orders 634444 and 634446
"BRA-BRGWA-2S" "BRA-BRGWA-6S" "BRA-BRGWA-2I" "BRA-BRAW-5I" on work orders 634447 and 634450

See attachments for reference.

Thank you!
Amanda

Amanda Turner
Project Manager Assistant
GEL Laboratories LLC EST. 1981
2040 Savage Road, Charleston, SC 29407
Office Main: 843.556.8171 | Fax: 843.766.1178
E-Mail: amanda.turner@gel.com | Website: www.gel.com [gel.com]
Analytical Testing
[gellaboratories.com] [linkedin.com]

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Amanda Turner

From: Amanda Turner
Sent: Tuesday, August 29, 2023 10:04 AM
To: JABRAHAM@SOUTHERNCO.COM; KNJURINK@SOUTHERNCO.COM; MJSMILLE@SOUTHERNCO.COM; NSMUSKUS@SOUTHERNCO.COM; lbmidkif@southernco.com
Cc: Team Trent
Subject: Preservation issues (634652, 634650, 634648, 634615)
Attachments: 634648 634615.pdf; 634652 634650.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

Good morning!

I wanted to notify you of the following preservation issues. The samples containers for sodium hydroxide/zinc acetate listed below did not hold preservation. The samples were preserved upon receipt and placed on a 24-hour preservation hold.

"BRA-PZ-51I" "BRA-PZ-60I" "BRA-PZ-58I" "BRA-PZ-63I" "BRA-PZ-64I" "BRA-PZ-68D" "BRA-APBCD-FD-02" "BRA-PZ-50D" "BRA-BRGWC-50" for work orders 634652 and 634650

"BRA-PZ-59I" for work order 634650

"BRA-BRGWC-35S" "BRA-BRGWC-36S" BRA-APE-FB-08" "BRA-BRGWC-38S" "BRA-APE-FD-05" for work orders 634648 and 634615

See attachments for reference.

Thank you!
Amanda

Amanda Turner
Project Manager Assistant
GEL Laboratories LLC EST. 1981
2040 Savage Road, Charleston, SC 29407
Office Main: 843.556.8171 | Fax: 843.766.1178
E-Mail: amanda.turner@gel.com | Website: www.gel.com
Analytical Testing

List of current GEL Certifications as of 07 September 2023

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122023-4
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2022-160
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-22-20
Utah NELAP	SC000122022-37
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

September 26, 2023

Joju Abraham
Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308

Re: Branch CCR Groundwater Compliance APBCD-R
Work Orders: 634781,634446 and 634652

Dear Joju Abraham:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on August 23, 2023, August 24, 2023 and August 25, 2023. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Recieved
634446002	BRA-BRGWA-23S	Ground Water	22/08/23 12:40	23/08/23 13:00
634446003	BRA-BRGWC-30I	Ground Water	22/08/23 15:22	23/08/23 13:00
634446004	BRA-BRGWC-32S	Ground Water	22/08/23 14:20	23/08/23 13:00
634446005	BRA-PZ-61I	Ground Water	22/08/23 16:15	23/08/23 13:00
634446006	BRA-APBCD-FB-01	Water	22/08/23 14:00	23/08/23 13:00
634652001	BRA-PZ-51I	Ground Water	23/08/23 15:00	24/08/23 12:43
634652002	BRA-PZ-58I	Ground Water	23/08/23 15:10	24/08/23 12:43
634652003	BRA-PZ-60I	Ground Water	23/08/23 13:25	24/08/23 12:43
634652004	BRA-PZ-63I	Ground Water	23/08/23 16:30	24/08/23 12:43
634652005	BRA-PZ-64I	Ground Water	23/08/23 10:55	24/08/23 12:43
634652006	BRA-PZ-68D	Ground Water	23/08/23 16:08	24/08/23 12:43
634652007	BRA-APBCD-FB-02	Ground Water	23/08/23 14:50	24/08/23 12:43
634652008	BRA-APBCD-FD-01	Ground Water	23/08/23 12:00	24/08/23 12:43
634652009	BRA-APBCD-FD-02	Ground Water	23/08/23 12:00	24/08/23 12:43
634652010	BRA-BRGWC-50	Ground Water	23/08/23 11:00	24/08/23 12:43
634652011	BRA-APBCD-EB-04	Ground Water	23/08/23 11:35	24/08/23 12:43

634652012	BRA-PZ-44	Ground Water	23/08/23 16:40	24/08/23 12:43
634652013	BRA-PZ-50D	Ground Water	23/08/23 12:30	24/08/23 12:43
634781001	BRA-APBCD-FD-03	Ground Water	24/08/23 12:00	25/08/23 08:57
634781002	BRA-APBCD-EB-05	Ground Water	24/08/23 09:55	25/08/23 08:57
634781003	BRA-BRGWC-27I	Ground Water	24/08/23 12:25	25/08/23 08:57
634781004	BRA-BRGWC-45	Ground Water	24/08/23 12:06	25/08/23 08:57
634781005	BRA-PZ-75I	Ground Water	24/08/23 10:51	25/08/23 08:57
634781006	BRA-PZ-74I	Ground Water	24/08/23 14:15	25/08/23 08:57
634781007	BRA-BRGWC-29I	Ground Water	24/08/23 15:20	25/08/23 08:57
634781008	BRA-PZ-51D	Ground Water	24/08/23 11:00	25/08/23 08:57
634781009	BRA-APBCD-FB-03	Ground Water	24/08/23 12:55	25/08/23 08:57
634781010	BRA-APBCD-EB-06	Ground Water	24/08/23 14:00	25/08/23 08:57
634781011	BRA-BRGWC-52I	Ground Water	24/08/23 13:05	25/08/23 08:57
634781012	BRA-BRGWC-47	Ground Water	24/08/23 14:45	25/08/23 08:57
634781013	BRA-BRGWC-25I	Ground Water	24/08/23 16:47	25/08/23 08:57

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Prep Methods and Prep Dates

Not Applicable

Analysis Methods and Analysis Dates

Method	Run Date ID
Calculation	22-SEP-2023
Calculation	26-SEP-2023
EPA 903.1 Modified	20-SEP-2023
EPA 903.1 Modified	21-SEP-2023
EPA 903.1 Modified	26-SEP-2023
EPA 904.0/SW846 9320 Modified	05-SEP-2023
EPA 904.0/SW846 9320 Modified	19-SEP-2023
EPA 904.0/SW846 9320 Modified	22-SEP-2023

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4504.

Sincerely,

Amanda Turner for
Erin Trent
Project Manager

Purchase Order: GPC82177-0006
Enclosures

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 634652 GEL Work Order: 634652

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Erin Trent.

Reviewed by Amanda Tew

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 634781 GEL Work Order: 634781

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Erin Trent.

Reviewed by Amanda Tenn

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 634446 GEL Work Order: 634446

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Erin Trent.

Reviewed by Amanda Tew

Radiochemistry
Technical Case Narrative
Georgia Power Company
SDG #: 634652

Product: **Radium-226+Radium-228 Calculation**
Analytical Method: Calculation
Analytical Procedure: GL-RAD-D-003 REV# 45
Analytical Batch: 2483038

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
634652001	BRA-PZ-51I
634652002	BRA-PZ-58I
634652003	BRA-PZ-60I
634652004	BRA-PZ-63I
634652005	BRA-PZ-64I
634652006	BRA-PZ-68D
634652007	BRA-APBCD-FB-02
634652008	BRA-APBCD-FD-01
634652009	BRA-APBCD-FD-02
634652010	BRA-BRGWC-50
634652011	BRA-APBCD-EB-04
634652012	BRA-PZ-44
634652013	BRA-PZ-50D

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **GFPC Ra228, Liquid**
Analytical Method: EPA 904.0/SW846 9320 Modified
Analytical Procedure: GL-RAD-A-063 REV# 5
Analytical Batch: 2483035

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
634652001	BRA-PZ-51I
634652002	BRA-PZ-58I
634652003	BRA-PZ-60I
634652004	BRA-PZ-63I
634652005	BRA-PZ-64I
634652006	BRA-PZ-68D

634652007	BRA-APBCD-FB-02
634652008	BRA-APBCD-FD-01
634652009	BRA-APBCD-FD-02
634652010	BRA-BRGWC-50
634652011	BRA-APBCD-EB-04
634652012	BRA-PZ-44
634652013	BRA-PZ-50D
1205499785	Method Blank (MB)
1205499786	634652001(BRA-PZ-51I) Sample Duplicate (DUP)
1205499787	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **Lucas Cell, Ra226, Liquid**
Analytical Method: EPA 903.1 Modified
Analytical Procedure: GL-RAD-A-008 REV# 15
Analytical Batch: 2483037

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
634652001	BRA-PZ-51I
634652002	BRA-PZ-58I
634652003	BRA-PZ-60I
634652004	BRA-PZ-63I
634652005	BRA-PZ-64I
634652006	BRA-PZ-68D
634652007	BRA-APBCD-FB-02
634652008	BRA-APBCD-FD-01
634652009	BRA-APBCD-FD-02
634652010	BRA-BRGWC-50
634652011	BRA-APBCD-EB-04
634652012	BRA-PZ-44
634652013	BRA-PZ-50D
1205499794	Method Blank (MB)
1205499795	634652001(BRA-PZ-51I) Sample Duplicate (DUP)
1205499796	634652001(BRA-PZ-51I) Matrix Spike (MS)
1205499797	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments
The matrix spike, 1205499796 (BRA-PZ-51IMS), aliquot was reduced to conserve sample volume.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Radiochemistry
Technical Case Narrative
Georgia Power Company
SDG #: 634781

Product: **Radium-226+Radium-228 Calculation**
Analytical Method: Calculation
Analytical Procedure: GL-RAD-D-003 REV# 45
Analytical Batch: 2484347

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
634781001	BRA-APBCD-FD-03
634781002	BRA-APBCD-EB-05
634781003	BRA-BRGWC-27I
634781004	BRA-BRGWC-45
634781005	BRA-PZ-75I
634781006	BRA-PZ-74I
634781007	BRA-BRGWC-29I
634781008	BRA-PZ-51D
634781009	BRA-APBCD-FB-03
634781010	BRA-APBCD-EB-06
634781011	BRA-BRGWC-52I
634781012	BRA-BRGWC-47
634781013	BRA-BRGWC-25I

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **GFPC Ra228, Liquid**
Analytical Method: EPA 904.0/SW846 9320 Modified
Analytical Procedure: GL-RAD-A-063 REV# 5
Analytical Batch: 2483519

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
634781001	BRA-APBCD-FD-03
634781002	BRA-APBCD-EB-05
634781003	BRA-BRGWC-27I
634781004	BRA-BRGWC-45
634781005	BRA-PZ-75I
634781006	BRA-PZ-74I

634781007	BRA-BRGWC-29I
634781008	BRA-PZ-51D
634781009	BRA-APBCD-FB-03
634781010	BRA-APBCD-EB-06
634781011	BRA-BRGWC-52I
634781012	BRA-BRGWC-47
634781013	BRA-BRGWC-25I
1205500580	Method Blank (MB)
1205500581	634781003(BRA-BRGWC-27I) Sample Duplicate (DUP)
1205500582	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Method Blank Criteria
The blank result (See Below) is greater than the MDC but less than the required detection limit.

Sample	Analyte	Value
1205500580 (MB)	Radium-228	Result: 1.94 pCi/L > MDA: 1.46 pCi/L <= RDL: 3.00 pCi/L

Product: **Lucas Cell, Ra226, Liquid**
Analytical Method: EPA 903.1 Modified
Analytical Procedure: GL-RAD-A-008 REV# 15
Analytical Batch: 2483512

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
634781001	BRA-APBCD-FD-03
634781002	BRA-APBCD-EB-05
634781003	BRA-BRGWC-27I
634781004	BRA-BRGWC-45
634781005	BRA-PZ-75I
634781006	BRA-PZ-74I
634781007	BRA-BRGWC-29I
634781008	BRA-PZ-51D
634781009	BRA-APBCD-FB-03
634781010	BRA-APBCD-EB-06
634781011	BRA-BRGWC-52I
634781012	BRA-BRGWC-47
634781013	BRA-BRGWC-25I
1205500561	Method Blank (MB)

1205500562	634781003(BRA-BRGWC-27I) Sample Duplicate (DUP)
1205500563	634781003(BRA-BRGWC-27I) Matrix Spike (MS)
1205500564	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments
The matrix spike, 1205500563 (BRA-BRGWC-27IMS), aliquot was reduced to conserve sample volume.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Radiochemistry
Technical Case Narrative
Georgia Power Company
SDG #: 634446

Product: **Radium-226+Radium-228 Calculation**
Analytical Method: Calculation
Analytical Procedure: GL-RAD-D-003 REV# 45
Analytical Batch: 2488604

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
634446002	BRA-BRGWA-23S
634446003	BRA-BRGWC-30I
634446004	BRA-BRGWC-32S
634446005	BRA-PZ-61I
634446006	BRA-APBCD-FB-01

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **GFPC Ra228, Liquid**
Analytical Method: EPA 904.0/SW846 9320 Modified
Analytical Procedure: GL-RAD-A-063 REV# 5
Analytical Batch: 2494433

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
634446002	BRA-BRGWA-23S
634446003	BRA-BRGWC-30I
634446004	BRA-BRGWC-32S
634446005	BRA-PZ-61I
634446006	BRA-APBCD-FB-01
1205520855	Method Blank (MB)
1205520856	634443001(BRA-BRGWC-33S) Sample Duplicate (DUP)
1205520857	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where

applicable, with the following exceptions.

Quality Control (QC) Information

Method Blank Criteria
The blank result (See Below) is greater than the MDC but less than the required detection limit.

Sample	Analyte	Value
1205520855 (MB)	Radium-228	Result: 1.38 pCi/L > MDA: 1.13 pCi/L <= RDL: 3.00 pCi/L

Technical Information

Sample Re-prep/Re-analysis
Samples were reprepped due to high relative percent difference/relative error ratio. The re-analysis is being reported.

Product: **Lucas Cell, Ra226, Liquid**
Analytical Method: EPA 903.1 Modified
Analytical Procedure: GL-RAD-A-008 REV# 15
Analytical Batch: 2482017

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
634446002	BRA-BRGWA-23S
634446003	BRA-BRGWC-30I
634446004	BRA-BRGWC-32S
634446005	BRA-PZ-61I
634446006	BRA-APBCD-FB-01
1205498037	Method Blank (MB)
1205498038	634443001(BRA-BRGWC-33S) Sample Duplicate (DUP)
1205498039	634443001(BRA-BRGWC-33S) Matrix Spike (MS)
1205498040	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments
The matrix spike, 1205498039 (BRA-BRGWC-33SMS), aliquot was reduced to conserve sample volume.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

634652
634650

Page: _____ of _____
Project # _____
GEL Quote #: _____
COC Number (1): _____
PO Number:

GEL Laboratories LLC
gel.com
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power | Phone # 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - BCD | Fax #
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: J. Berisford ACC | Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS, NO3 EPA 300, SM 2540C	Total, Carb, & Bicarb Alk SM 2320B	NI Metals * EPA 6020, 6010, 7470	NI Radium 226 & 228 SW-846 9315, 9320	Sulfide SM 4500	<-- Preservative Type (6)
BRA- PZ-51I	08/23/23	1500	G	N	WG			8	✓	✓	✓	✓	✓	
BRA- PZ-58I	08/23/23	1510	G	N	WG			8	✓	✓	✓	✓	✓	
BRA- PZ-59I	08/23/23	1140	G	N	WG			1					✓	
BRA- PZ-60I	08/23/23	1325	G	N	WG			8	✓	✓	✓	✓	✓	
BRA- PZ-63I	08/23/23	1630	G	N	WG			8	✓	✓	✓	✓	✓	
BRA- PZ-64I	08/23/23	1055	G	N	WG			8	✓	✓	✓	✓	✓	
BRA- PZ-68D	08/23/23	1608	G	N	WG			8	✓	✓	✓	✓	✓	
BRA- APBCD-FB-02	08/23/23	1450	G	N	WQ			8	✓	✓	✓	✓	✓	
BRA- APBCD-FD-01	08/23/23	—	G	N	WG			8	✓	✓	✓	✓	✓	
BRA- APBCD-FD-02	08/23/23	—	G	N	WG			8	✓	✓	✓	✓	✓	

Comments
Note: extra sample is required for sample specific QC
Task_Code: BRA-CCR-ASSMT-2023S2

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1		8/24/23	0841		8/24/23	841
2		8/24/23	1249	2	8/24/23	1243
3				3		

TAT Requested: Normal: x Rush: ____ Specify: _____ (Subject to Surcharge)

Fax Results: [ ] Yes [x] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [x] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * **Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] Yes [ ] No *Cooler Temp:* ____ °C

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **WD**=Drinking Water, **WG**=Groundwater, **WS**=Surface Water, **WW**=Waste Water, **WL**=Leachate, **SO**=Soil, **SE**=Sediment, **SL**=Sludge, **WQ**=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B, 6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

Page: _____ of _____
Project # _____
GEL Quote #: _____
COC Number (1): _____
PO Number:

GEL Laboratories LLC
gel.com
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number:

GEL Project Manager: Erin Trent

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power | Phone # 404-506-7116

Project/Site Name: Plant Branch Ash Ponds - BCD | Fax #

Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308

Collected By: J. Berry ACC | Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS, NO3 EPA 300, SM 2540C	Total, Carb, & Bicarb Alk. SM 2320B	Metals * EPA 6020, 6010, 7470 NI	Radium 226 & 228 SW-846 9315, 9320 NI	Sulfide SM 4500	<-- Preservative Type (6)
BRA- BR6WC-50	08/23/23	1100	G	N	WG			8	✓	✓	✓	✓	✓	
BRA- APBCD-EB-04	08/23/23	1135	G	N	WQ			8	✓	✓	✓	✓	✓	
BRA- P2-44	08/23/23	1640	G	N	WG			8	✓	✓	✓	✓	✓	
BRA- P2-50D	08/23/23	1230	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-														
BRA-														
BRA-														
BRA-														
BRA-														
BRA-														

Comments
Note: extra sample is required for sample specific QC
Task_Code: BRA-CCR-ASSMT-2023S2

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1		8/24/23	0841		8/24/23	841
2		8/24/23	1243		8/24/23	1243
3						

TAT Requested: Normal: x Rush: _____ Specify: _____ (Subject to Surcharge)

Fax Results: [ ] Yes [x] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [x] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* *Cooler Temp:* _____ °C

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.

4.) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. *8260B* - 3, *6010B/7470A* - 1).

6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic
Ba = Barium
Cd = Cadmium
Cr = Chromium
Pb = Lead
Hg= Mercury
Se= Selenium
Ag= Silver
MR= Misc. RCRA metals

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

634448 634643
634652 634650
634649
634648 634615

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	SDG/AR/COC/Work Order:
Received By: EG	Date Received: 8.24.23
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other Cooler 1 - 3° Cooler 2 - 3° Cooler 3 - 3° Cooler 4 - 2° Cooler 5 - 3°

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A) Shipped as a DOT Hazardous?		/	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		/	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		/	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM / mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?		/	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		/	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	/			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	/			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	/			Preservation Method: Wet Ice Ice Packs Dry Ice None Other: *all temperatures are recorded in Celsius TEMP: See coolers above & below for temps
4	Daily check performed and passed on IR temperature gun?	/			Temperature Device Serial #: IR6-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	/			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?			/	Sample ID's and Containers Affected: If Preservation added, Lot#: See continuation form
7	Do any samples require Volatile Analysis?			/	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___ (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___ (If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	/			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	/			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	/			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	/			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	/			
13	COC form is properly signed in relinquished/received sections?	/			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

Cooler 6-1
Cooler 7-2
Cooler 8-4
Cooler 9-1

PM (or PMA) review: Initials AT Date 8/28/23 Page 1 of 2

GL-CHL-SR-001 Rev 7

GEL | Laboratories LLC **SAMPLE RECEIPT & REVIEW CONTINUATION FORM**

Client: GPCC Received By: EG Date Received: 8/24/23 SDG/AR/COC/Work Order: _____

BRA-P2-511
BRA-P2-591
BRA-BRGWC-355
BRA-BRGWC-365
BRA-APE-FB-05
BRA-P2-601
BRA-P2-581
BRA-P2-631
BRA-BRGWC-385
BRA-P2-641
BRA-P2-68D
BRA-APBLD-FD-02
BRA-P2-50D
BRA-BRGWC-50
BRA-APE-FD-05
L> containers for sodium hydroxide/zinc acetate did not hold preservation. Were preserved & placed in 24 hr hold preservation

PM (or PMA) review: Initials AT Date 8/28/23 Page 2 of 2

634768 634781

Page: 1 of 2
Project #
GEL Quote #:
COC Number (1):
PO Number:

GEL Laboratories LLC
gel.com Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power | Phone # 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - BCD | Fax #
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: ACC | Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radiulnuclide (If yes, please supply isotopic info.)	Should this sample be considered: (*) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS, NO3 EPA 300, SM 2540C	Total, Carb, & Bicarb Alk SM 2320B	Metals * EPA 6020, 6010, 7470	Radium 226 & 228 SW-846 9315, 9320	Sulfide SM 4500	<-- Preservative Type (6)
BRA-APBCD-FD-03	08/24/23		G	N	WG			8	✓	✓	✓	✓	✓	
BRA-APBCD-EB-05	08/24/23	0955	G	N	WQ			8	✓	✓	✓	✓	✓	
BRA-BRGWC-27I	08/24/23	1225	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-BRGWC-45	08/24/23	1206	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-PZ-75I	08/24/23	1051	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-PZ-74I	08/24/23	1415	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-BRGWC-29I	08/24/23	1520	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-PZ-51D	08/24/23	1100	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-APBCD-FB-03	08/24/23	1255	G	N	WQ			8	✓	✓	✓	✓	✓	
BRA-APBCD-EB-06	08/24/23	1400	G	N	WQ			8	✓	✓	✓	✓	✓	

Comments
Note: extra sample is required for sample specific QC
Task_Code: BRA-CCR-ASSMT-2023S2

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1		08/24/23	1730		08/24/23	1730
2		8/25/23	0855		8/24/23	0857
3						

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR)*

TAT Requested: Normal: x Rush: Specify: (Subject to Surcharge)

Fax Results: [ ] Yes [x] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [x] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] Yes [ ] No *Cooler Temp:* °C

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

Cooler 1 - 4°
Cooler 2 - 4°
Cooler 3 - 1°
Cooler 4 - 1°
Cooler 5 - 3°

1.) Chain of Custody Number = Client Determined

2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.

4.) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. *8260B*, *6010B/7470A*) and number of containers provided for each (i.e. *8260B* - 3, *6010B/7470A* - 1).

6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic Hg = Mercury
Ba = Barium Se = Selenium
Cd = Cadmium Ag = Silver
Cr = Chromium MR = Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW = Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT = Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

Page: 2 of 2
Project #
GEL Quote #:
COC Number (1):
PO Number:

GEL Laboratories LLC
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics
Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power | Phone # 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - BCD | Fax #
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: ACC | Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS, NO3 EPA 300, SM 2540C	Total, Carb, & Bicarb Alk SM 2320B	NI Metals * EPA 6020, 6010, 7470	NI Radium 226 & 228 SW-846 9315, 9320	Sulfide SM 4500	<-- Preservative Type (6)
BRA- BRGWC-52I	08/24/23	1305	G	N	WG			8	✓	✓	✓	✓	✓	
BRA- BRGWC-47	08/24/23	1445	G	N	WG			8	✓	✓	✓	✓	✓	
BRA- BRGWC-25I	08/24/23	1647	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-														
BRA-														
BRA-														
BRA-														
BRA-														
BRA-														
BRA-														

Comments
Note: extra sample is required for sample specific QC
Task_Code: BRA-CCR-ASSMT-2023S2

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	[signature]	8/24/23	1730	[signature]	8/24/23	1730
2	[signature]	8/25/23	0857	[signature]	8/25/23	0857
3						

TAT Requested: Normal: x Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [x] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [x] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg

For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No *Cooler Temp:* ____ °C

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

Cooler 1-4
cooler 2-4
cooler 3-1
cooler 4-1
cooler 5-3

1.) Chain of Custody Number = Client Determined

2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.

4.) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. *8260B*, *6010B/7470A*) and number of containers provided for each (i.e. *8260B* - 3, *6010B/7470A* - 1).

6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic; Hg = Mercury
Ba = Barium; Se = Selenium
Cd = Cadmium; Ag = Silver
Cr = Chromium; MR = Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW = Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT = Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns: (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

ET

634784 634789 634768 634781

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	**SDG/AR/COC/Work Order:**
Received By: EG	**Date Received:** 8/25/23 0857
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services (Courier) Other cooler 1 - 4° cooler 3 - 1° cooler 5 - 3° cooler 2 - 4° cooler 4 - 1°

Suspected Hazard Information	Yes	No	
			*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 (6) CPM / mR/Hr **Classified as: Rad 1 Rad 2 Rad 3**
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: (Wet Ice) Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: See above
4	Daily check performed and passed on IR temperature gun?	✓			**Temperature Device Serial #:** IR6-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?			✓	Sample ID's and Containers Affected: If Preservation added, Lot#: See below
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?			✓	ID's and containers affected: COC says BRA-P2-74I bottles say BRA-P2-74
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):
containers BRA-P2-75I, BRA-BRGWC-27I, BRA-P2-53D & BRA-BRGWC-29I preserved with NaOH/Zinc Acetate did not hold preservation

PM (or PMA) review: Initials AT Date 8/28/23 Page 1 of 1

GL-CHL-SR-001 Rev 7

634444 634446

Page: _____ of _____
Project # _____
GEL Quote #: _____
COC Number [1]: _____
PO Number:

GEL Laboratories LLC
gel.com
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power | Phone # 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - BCD | Fax #
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: J Bamford ACC | Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS, NO3 EPA 300, SM 2540C	Total, Carb, & Bicarb Alk SM 2320B	Metals * EPA 6020, 6010, 7470 (NI)	Radium 226 & 228 SW-846 9315, 9320 (NI)	Sulfide SM 4500	<-- Preservative Type (6)
BRA-PZ-57I	08/21/23	1755	G	N	WG			1					✓	
BRA-PZ-65I	08/21/23	1745	G	N	WG			1					✓	
BRA-BRGWA-23S	08/22/23	1240	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-BRGWC-30I	08/22/23	1522	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-BRGWC-32S	08/22/23	1420	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-PZ-61I	08/22/23	1615	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-APBCD-FB-01	08/22/23	1400	G	N	WQ			8	✓	✓	✓	✓	✓	
BRA-														
BRA-														
BRA-														

Comments
Note: extra sample is required for sample specific QC
Task_Code: BRA-CCR-ASSMT-2023S2

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1		8/22/23	0842		8/23/23	8:35
2		8/23/23	100		8/23/23	1300
3						

TAT Requested: Normal: x Rush: ____ Specify: _____ (Subject to Surcharge)

Fax Results: [ ] Yes [x] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [x] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * **Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* *Cooler Temp:* ____ °C

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **WD**=Drinking Water, **WG**=Groundwater, **WS**=Surface Water, **WW**=Waste Water, **WL**=Leachate, **SO**=Soil, **SE**=Sediment, **SL**=Sludge, **WQ**=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B, 6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

~~634444~~ 634643
634448 634447
634443 634450
634441 634444
634446

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: CCP

SDG/AR/COC/Work Order:

Received By: MVH

Date Received: 08-23-2023

Carrier and Tracking Number

Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other

Cooler 2 - 3°C Cooler 4 - 1°C Cooler Co - 1°C
Cooler 1 - 2°C Cooler 3 - 1°C Cooler 5 - 2°C

Suspected Hazard Information	Yes	No	
			*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A) Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM / uR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: Wet Ice Ice Packs Dry Ice None Other: *all temperatures are recorded in Celsius TEMP:___
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR2-21 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?			✓	Sample ID's and Containers Affected: BRA-P2-G11, BRA-BRGWA-51, BRA-BRGWA-23S, If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___ (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___ (If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):
BRA-P2-13S, BRA-BRGWA-2S, BRA-BRGWA-6S, BRA-BRGWC-32S, BRA-BRGWA-21, BRA-BRGWC-37S, BRA-BRGWC-34S, BRA-BRGWC-30I Sulfide samples didnt hold proper preservation.

PM (or PMA) review: Initials AT Date 8/25/23 Page 1 of 1

GL-CHL-SR-001 Rev 7

Amanda Turner

From: Amanda Turner
Sent: Tuesday, August 29, 2023 10:04 AM
To: JABRAHAM@SOUTHERNCO.COM; KNJURINK@SOUTHERNCO.COM; MJSMILLE@SOUTHERNCO.COM; NSMUSKUS@SOUTHERNCO.COM; lbmidkif@southernco.com
Cc: Team Trent
Subject: Preservation issues (634652, 634650, 634648, 634615)
Attachments: 634648 634615.pdf; 634652 634650.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

Good morning!

I wanted to notify you of the following preservation issues. The samples containers for sodium hydroxide/zinc acetate listed below did not hold preservation. The samples were preserved upon receipt and placed on a 24-hour preservation hold.

"BRA-PZ-51I" "BRA-PZ-60I" "BRA-PZ-58I" "BRA-PZ-63I" "BRA-PZ-64I" "BRA-PZ-68D" "BRA-APBCD-FD-02" "BRA-PZ-50D" "BRA-BRGWC-50" for work orders 634652 and 634650

"BRA-PZ-59I" for work order 634650

"BRA-BRGWC-35S" "BRA-BRGWC-36S" BRA-APE-FB-08" "BRA-BRGWC-38S" "BRA-APE-FD-05" for work orders 634648 and 634615

See attachments for reference.

Thank you!
Amanda

Amanda Turner
Project Manager Assistant
GEL Laboratories LLC EST. 1981
2040 Savage Road, Charleston, SC 29407
Office Main: 843.556.8171 | Fax: 843.766.1178
E-Mail: amanda.turner@gel.com | Website: www.gel.com
Analytical Testing

Amanda Turner

From: Abraham, Joju <JABRAHAM@SOUTHERNCO.COM>
Sent: Friday, August 25, 2023 8:52 AM
To: Amanda Turner; Jurinko, Kristen Nichole; Smilley, Michael Jay; Gangi, Noelia S.; Midkiff, Laura B.
Cc: Team Trent
Subject: RE: Samples did not hold preservation (634441, 634443, 634444, 634446, 634447, 634450)

[EXTERNAL EMAIL] DO NOT CLICK links or attachments unless you recognize the sender and know the content is safe.

Re-preserve and analyze for sulfide in all samples.

JA

From: Amanda Turner <Amanda.Turner@gel.com>
Sent: Friday, August 25, 2023 8:29 AM
To: Abraham, Joju <JABRAHAM@SOUTHERNCO.COM>; Jurinko, Kristen Nichole <KNJURINK@SOUTHERNCO.COM>; Smilley, Michael Jay <MJSMILLE@SOUTHERNCO.COM>; Gangi, Noelia S. <NSMUSKUS@SOUTHERNCO.COM>; Midkiff, Laura B. <lbmidkif@southernco.com>
Cc: Team Trent <Team.Trent@gel.com>
Subject: Samples did not hold preservation (634441, 634443, 634444, 634446, 634447, 634450)

Good morning,

I wanted to notify you of the following preservation issues. These samples did not hold proper sulfide preservation. Please advise.

"BRA-GWC-34S" "BRA-BRGWC-37S" "BRA-PZ-13S" on work orders 634441 and 634443
“BRA-BRGWC-32S” “BRA-BRGWC-30I” "BRA-PZ-61I" "BRA-BRGWA-23S" on work orders 634444 and 634446
"BRA-BRGWA-2S" "BRA-BRGWA-6S" "BRA-BRGWA-2I" "BRA-BRAW-5I" on work orders 634447 and 634450

See attachments for reference.

Thank you!
Amanda

Amanda Turner
Project Manager Assistant
GEL Laboratories LLC EST. 1981
2040 Savage Road, Charleston, SC 29407
Office Main: 843.556.8171 | Fax: 843.766.1178
E-Mail: amanda.turner@gel.com | Website: www.gel.com [gel.com]
Analytical Testing
[gellaboratories.com] [linkedin.com]

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List of current GEL Certifications as of 26 September 2023

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122023-4
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2022-160
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-23-21
Utah NELAP	SC000122022-37
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-BRGWA-23S
Sample ID: 634446002
Matrix: WG
Collect Date: 22-AUG-23
Receive Date: 23-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.10	+/-1.08	1.79	+/-1.12	3.00	pCi/L			JE1	09/22/23	0822	2494433	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.16	+/-1.15	1.79	+/-1.21		pCi/L			NXL1	09/22/23	1016	2488604	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		1.06	+/-0.386	0.385	+/-0.455	1.00	pCi/L			LXP1	09/20/23	0820	2482017	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2494433	84.9	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-BRGWC-30I
Sample ID: 634446003
Matrix: WG
Collect Date: 22-AUG-23
Receive Date: 23-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.97	+/-1.28	2.00	+/-1.38	3.00	pCi/L			JE1	09/22/23	0822	2494433	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.71	+/-1.32	2.00	+/-1.42		pCi/L			NXL1	09/22/23	1016	2488604	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.736	+/-0.333	0.380	+/-0.351	1.00	pCi/L			LXP1	09/20/23	0820	2482017	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2494433	83.1	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-BRGWC-32S
Sample ID: 634446004
Matrix: WG
Collect Date: 22-AUG-23
Receive Date: 23-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.60	+/-1.14	1.80	+/-1.21	3.00	pCi/L			JE1	09/22/23	0822	2494433	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.33	+/-1.19	1.80	+/-1.26		pCi/L			NXL1	09/22/23	1016	2488604	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.729	+/-0.346	0.390	+/-0.363	1.00	pCi/L			LXP1	09/20/23	0852	2482017	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2494433	87.5	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Atlanta, Georgia 30308 Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-PZ-61I
Sample ID: 634446005
Matrix: WG
Collect Date: 22-AUG-23
Receive Date: 23-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.515	+/-0.660	1.12	+/-0.672	3.00	pCi/L			JE1	09/22/23	0847	2494433	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	0.868	+/-0.703	1.12	+/-0.718		pCi/L			NXL1	09/22/23	1016	2488604	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.353	+/-0.244	0.325	+/-0.250	1.00	pCi/L			LXP1	09/20/23	0852	2482017	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2494433	85.9	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Atlanta, Georgia 30308 Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-APBCD-FB-01
Sample ID: 634446006
Matrix: WQ
Collect Date: 22-AUG-23
Receive Date: 23-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.142	+/-0.978	1.81	+/-0.979	3.00	pCi/L			JE1	09/22/23	0847	2494433	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	0.595	+/-1.01	1.81	+/-1.01		pCi/L			NXL1	09/22/23	1016	2488604	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.454	+/-0.236	0.217	+/-0.248	1.00	pCi/L			LXP1	09/20/23	0852	2482017	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2494433	81.8	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Atlanta, Georgia 30308 Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-PZ-51I
Sample ID: 634652001
Matrix: WG
Collect Date: 23-AUG-23
Receive Date: 24-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		4.20	+/-1.36	1.62	+/-1.73	3.00	pCi/L			JE1	09/19/23	0925	2483035	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		5.22	+/-1.45	1.62	+/-1.81		pCi/L			LXB3	09/22/23	1000	2483038	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		1.02	+/-0.480	0.512	+/-0.520	1.00	pCi/L			LXP1	09/21/23	0938	2483037	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2483035	82.6	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Atlanta, Georgia 30308 Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-PZ-58I
Sample ID: 634652002
Matrix: WG
Collect Date: 23-AUG-23
Receive Date: 24-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		1.77	+/-0.844	1.08	+/-0.956	3.00	pCi/L			JE1	09/19/23	0925	2483035	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		3.71	+/-1.11	1.08	+/-1.27		pCi/L			LXB3	09/22/23	1000	2483038	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		1.95	+/-0.714	0.786	+/-0.834	1.00	pCi/L			LXP1	09/21/23	0938	2483037	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2483035	81.1	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Atlanta, Georgia 30308 Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-PZ-60I
Sample ID: 634652003
Matrix: WG
Collect Date: 23-AUG-23
Receive Date: 24-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		2.65	+/-1.24	1.75	+/-1.41	3.00	pCi/L			JE1	09/19/23	0925	2483035	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		4.48	+/-1.38	1.75	+/-1.58		pCi/L			LXB3	09/22/23	1000	2483038	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		1.83	+/-0.611	0.548	+/-0.717	1.00	pCi/L			LXP1	09/21/23	0938	2483037	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2483035	76.2	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Atlanta, Georgia 30308 Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-PZ-63I
Sample ID: 634652004
Matrix: WG
Collect Date: 23-AUG-23
Receive Date: 24-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.44	+/-1.16	1.85	+/-1.21	3.00	pCi/L			JE1	09/19/23	0925	2483035	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.31	+/-1.25	1.85	+/-1.32		pCi/L			LXB3	09/22/23	1000	2483038	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.873	+/-0.483	0.568	+/-0.510	1.00	pCi/L			LXP1	09/21/23	0938	2483037	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2483035	75.8	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Atlanta, Georgia 30308 Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-PZ-64I
Sample ID: 634652005
Matrix: WG
Collect Date: 23-AUG-23
Receive Date: 24-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.700	+/-1.10	1.90	+/-1.11	3.00	pCi/L			JE1	09/19/23	0925	2483035	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	0.877	+/-1.13	1.90	+/-1.15		pCi/L			LXB3	09/22/23	1000	2483038	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.177	+/-0.275	0.491	+/-0.278	1.00	pCi/L			LXP1	09/21/23	0938	2483037	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2483035	77.5	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Atlanta, Georgia 30308 Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-PZ-68D
Sample ID: 634652006
Matrix: WG
Collect Date: 23-AUG-23
Receive Date: 24-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.837	+/-0.870	1.44	+/-0.896	3.00	pCi/L			JE1	09/19/23	0925	2483035	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		1.62	+/-0.966	1.44	+/-1.00		pCi/L			LXB3	09/22/23	1000	2483038	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.786	+/-0.419	0.483	+/-0.447	1.00	pCi/L			LXP1	09/21/23	0938	2483037	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2483035	88.1	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Atlanta, Georgia 30308 Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-APBCD-FB-02
Sample ID: 634652007
Matrix: WQ
Collect Date: 23-AUG-23
Receive Date: 24-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.431	+/-0.731	1.30	+/-0.739	3.00	pCi/L			JE1	09/19/23	0925	2483035	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	0.720	+/-0.801	1.30	+/-0.811		pCi/L			LXB3	09/22/23	1000	2483038	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.289	+/-0.327	0.532	+/-0.332	1.00	pCi/L			LXP1	09/21/23	0938	2483037	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2483035	71.8	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Atlanta, Georgia 30308 Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-APBCD-FD-01
Sample ID: 634652008
Matrix: WG
Collect Date: 23-AUG-23
Receive Date: 24-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.29	+/-1.46	2.46	+/-1.50	3.00	pCi/L			JE1	09/19/23	0926	2483035	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	2.39	+/-1.54	2.46	+/-1.59		pCi/L			LXB3	09/22/23	1000	2483038	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		1.09	+/-0.466	0.364	+/-0.509	1.00	pCi/L			LXP1	09/21/23	0938	2483037	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2483035	72.4	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Atlanta, Georgia 30308 Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-APBCD-FD-02
Sample ID: 634652009
Matrix: WG
Collect Date: 23-AUG-23
Receive Date: 24-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.491	+/-1.14	2.01	+/-1.15	3.00	pCi/L			JE1	09/19/23	0926	2483035	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	1.14	+/-1.22	2.01	+/-1.23		pCi/L			LXB3	09/22/23	1000	2483038	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.652	+/-0.429	0.555	+/-0.441	1.00	pCi/L			LXP1	09/21/23	1010	2483037	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2483035	84.7	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-BRGWC-50
Sample ID: 634652010
Matrix: WG
Collect Date: 23-AUG-23
Receive Date: 24-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.285	+/-0.641	1.16	+/-0.645	3.00	pCi/L			JE1	09/19/23	0926	2483035	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		1.55	+/-0.807	1.16	+/-0.861		pCi/L			LXB3	09/22/23	1000	2483038	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		1.26	+/-0.491	0.418	+/-0.571	1.00	pCi/L			LXP1	09/21/23	1010	2483037	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2483035	83.9	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Atlanta, Georgia 30308 Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-APBCD-EB-04
Sample ID: 634652011
Matrix: WQ
Collect Date: 23-AUG-23
Receive Date: 24-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.408	+/-0.833	1.49	+/-0.840	3.00	pCi/L			JE1	09/19/23	0926	2483035	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	1.22	+/-0.914	1.49	+/-0.938		pCi/L			LXB3	09/22/23	1000	2483038	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.816	+/-0.375	0.312	+/-0.418	1.00	pCi/L			LXP1	09/21/23	1010	2483037	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2483035	73.1	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Atlanta, Georgia 30308 Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-PZ-44
Sample ID: 634652012
Matrix: WG
Collect Date: 23-AUG-23
Receive Date: 24-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	-0.148	+/-0.949	1.84	+/-0.949	3.00	pCi/L			JE1	09/19/23	0926	2483035	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	0.477	+/-1.04	1.84	+/-1.05		pCi/L			LXB3	09/22/23	1000	2483038	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.477	+/-0.429	0.653	+/-0.438	1.00	pCi/L			LXP1	09/21/23	1010	2483037	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2483035	70.5	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Atlanta, Georgia 30308 Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-PZ-50D
Sample ID: 634652013
Matrix: WG
Collect Date: 23-AUG-23
Receive Date: 24-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.18	+/-0.822	1.26	+/-0.875	3.00	pCi/L			JE1	09/19/23	0926	2483035	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.12	+/-0.914	1.26	+/-0.972		pCi/L			LXB3	09/22/23	1000	2483038	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.941	+/-0.401	0.313	+/-0.424	1.00	pCi/L			LXP1	09/21/23	1010	2483037	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2483035	87	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Atlanta, Georgia 30308 Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-APBCD-FD-03
Sample ID: 634781001
Matrix: WG
Collect Date: 24-AUG-23
Receive Date: 25-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		4.38	+/-1.44	1.72	+/-1.82	3.00	pCi/L			JE1	09/19/23	1051	2483519	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		4.92	+/-1.51	1.72	+/-1.88		pCi/L		1	LXB3	09/26/23	1107	2484347	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.542	+/-0.475	0.677	+/-0.482	1.00	pCi/L			LXP1	09/26/23	0811	2483512	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2483519	79	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Atlanta, Georgia 30308 Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-APBCD-EB-05 Project: GPCC00101
Sample ID: 634781002 Client ID: GPCC001
Matrix: WQ
Collect Date: 24-AUG-23
Receive Date: 25-AUG-23
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.593	+/-0.685	1.15	+/-0.702	3.00	pCi/L			JE1	09/19/23	1051	2483519	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	0.659	+/-0.732	1.15	+/-0.748		pCi/L		1	LXB3	09/26/23	1107	2484347	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.0660	+/-0.259	0.574	+/-0.259	1.00	pCi/L			LXP1	09/26/23	0811	2483512	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2483519	77.7	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Atlanta, Georgia 30308 Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-BRGWC-27I
Sample ID: 634781003
Matrix: WG
Collect Date: 24-AUG-23
Receive Date: 25-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.10	+/-1.05	1.72	+/-1.09	3.00	pCi/L			JE1	09/19/23	1051	2483519	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.23	+/-1.17	1.72	+/-1.22		pCi/L		1	LXB3	09/26/23	1107	2484347	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		1.13	+/-0.529	0.419	+/-0.558	1.00	pCi/L			LXP1	09/26/23	0811	2483512	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2483519	80.1	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Atlanta, Georgia 30308 Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-BRGWC-45
Sample ID: 634781004
Matrix: WG
Collect Date: 24-AUG-23
Receive Date: 25-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	-0.541	+/-0.892	1.81	+/-0.893	3.00	pCi/L			JE1	09/19/23	1051	2483519	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	0.607	+/-1.00	1.81	+/-1.01		pCi/L		1	LXB3	09/26/23	1107	2484347	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.607	+/-0.459	0.567	+/-0.471	1.00	pCi/L			LXP1	09/26/23	0811	2483512	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2483519	82.8	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Atlanta, Georgia 30308 Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-PZ-75I
Sample ID: 634781005
Matrix: WG
Collect Date: 24-AUG-23
Receive Date: 25-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		1.91	+/-1.02	1.48	+/-1.13	3.00	pCi/L			JE1	09/19/23	1051	2483519	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		3.11	+/-1.15	1.48	+/-1.27		pCi/L		1	LXB3	09/26/23	1107	2484347	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		1.20	+/-0.533	0.403	+/-0.589	1.00	pCi/L			LXP1	09/26/23	0811	2483512	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2483519	85.8	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Atlanta, Georgia 30308 Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-PZ-74I
Sample ID: 634781006
Matrix: WG
Collect Date: 24-AUG-23
Receive Date: 25-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.191	+/-0.607	1.14	+/-0.609	3.00	pCi/L			JE1	09/19/23	1051	2483519	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	0.811	+/-0.747	1.14	+/-0.760		pCi/L		1	LXB3	09/26/23	1107	2484347	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.620	+/-0.435	0.563	+/-0.454	1.00	pCi/L			LXP1	09/26/23	0811	2483512	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2483519	84	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Atlanta, Georgia 30308 Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-BRGWC-29I
Sample ID: 634781007
Matrix: WG
Collect Date: 24-AUG-23
Receive Date: 25-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.89	+/-1.37	2.18	+/-1.45	3.00	pCi/L			JE1	09/19/23	1052	2483519	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		3.02	+/-1.48	2.18	+/-1.58		pCi/L		1	LXB3	09/26/23	1107	2484347	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		1.12	+/-0.579	0.574	+/-0.624	1.00	pCi/L			LXP1	09/26/23	0811	2483512	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2483519	82.8	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Atlanta, Georgia 30308 Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-PZ-51D
Sample ID: 634781008
Matrix: WG
Collect Date: 24-AUG-23
Receive Date: 25-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.411	+/-0.709	1.25	+/-0.716	3.00	pCi/L			JE1	09/19/23	1052	2483519	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		1.27	+/-0.851	1.25	+/-0.867		pCi/L		1	LXB3	09/26/23	1107	2484347	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.860	+/-0.471	0.373	+/-0.489	1.00	pCi/L			LXP1	09/26/23	0811	2483512	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2483519	84.5	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-APBCD-FB-03
Sample ID: 634781009
Matrix: WQ
Collect Date: 24-AUG-23
Receive Date: 25-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		1.61	+/-0.878	1.21	+/-0.968	3.00	pCi/L			JE1	09/19/23	1052	2483519	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		1.93	+/-0.934	1.21	+/-1.02		pCi/L		1	LXB3	09/26/23	1107	2484347	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.321	+/-0.321	0.451	+/-0.330	1.00	pCi/L			LXP1	09/26/23	0846	2483512	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2483519	79.4	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-APBCD-EB-06
Sample ID: 634781010
Matrix: WQ
Collect Date: 24-AUG-23
Receive Date: 25-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.285	+/-0.704	1.30	+/-0.708	3.00	pCi/L			JE1	09/19/23	1052	2483519	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	0.924	+/-0.853	1.30	+/-0.861		pCi/L		1	LXB3	09/26/23	1107	2484347	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.639	+/-0.482	0.617	+/-0.491	1.00	pCi/L			LXP1	09/26/23	0846	2483512	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2483519	79.3	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-BRGWC-52I
Sample ID: 634781011
Matrix: WG
Collect Date: 24-AUG-23
Receive Date: 25-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		4.85	+/-1.31	1.43	+/-1.80	3.00	pCi/L			JE1	09/19/23	1052	2483519	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		6.36	+/-1.46	1.43	+/-1.95		pCi/L		1	LXB3	09/26/23	1107	2484347	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		1.50	+/-0.652	0.531	+/-0.743	1.00	pCi/L			LXP1	09/26/23	0846	2483512	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2483519	84	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
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Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-BRGWC-47
Sample ID: 634781012
Matrix: WG
Collect Date: 24-AUG-23
Receive Date: 25-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.56	+/-1.10	1.71	+/-1.17	3.00	pCi/L			JE1	09/19/23	1053	2483519	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.39	+/-1.20	1.71	+/-1.27		pCi/L		1	LXB3	09/26/23	1107	2484347	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.834	+/-0.497	0.424	+/-0.514	1.00	pCi/L			LXP1	09/26/23	0846	2483512	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2483519	79.3	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-BRGWC-25I
Sample ID: 634781013
Matrix: WG
Collect Date: 24-AUG-23
Receive Date: 25-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.634	+/-0.916	1.58	+/-0.930	3.00	pCi/L			JE1	09/19/23	1052	2483519	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	1.21	+/-0.991	1.58	+/-1.01		pCi/L		1	LXB3	09/26/23	1107	2484347	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.574	+/-0.379	0.354	+/-0.399	1.00	pCi/L			LXP1	09/26/23	0846	2483512	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2483519	82.7	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

QC Summary

Client : **Georgia Power Company, Southern Company**
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia

Contact: **Joju Abraham**

Workorder: **634446**

Report Date: September 26, 2023

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gas Flow										
Batch 2494433										
QC1205520856 634443001 DUP										
Radium-228	U	0.119	U	1.16	pCi/L	0		N/A	JE1	09/22/2308:46
	Uncert:	+/-0.702		+/-0.838						
	TPU:	+/-0.702		+/-0.891						
QC1205520857 LCS										
Radium-228	75.6			76.2	pCi/L		101	(75%-125%)	JE1	09/22/2308:46
	Uncert:			+/-4.33						
	TPU:			+/-19.9						
QC1205520855 MB										
Radium-228				1.38	pCi/L				JE1	09/22/2308:46
	Uncert:			+/-0.802						
	TPU:			+/-0.875						
Rad Ra-226										
Batch 2482017										
QC1205498038 634443001 DUP										
Radium-226	U	0.401	U	0.170	pCi/L	0		N/A	LXP1	09/20/2309:26
	Uncert:	+/-0.326		+/-0.249						
	TPU:	+/-0.337		+/-0.251						
QC1205498040 LCS										
Radium-226	26.9			33.3	pCi/L		124	(75%-125%)	LXP1	09/20/2309:26
	Uncert:			+/-2.02						
	TPU:			+/-5.55						
QC1205498037 MB										
Radium-226			U	0.142	pCi/L				LXP1	09/20/2309:26
	Uncert:			+/-0.184						
	TPU:			+/-0.188						
QC1205498039 634443001 MS										
Radium-226	137 U	0.401		103	pCi/L		75.1	(75%-125%)	LXP1	09/20/2309:26
	Uncert:	+/-0.326		+/-7.23						
	TPU:	+/-0.337		+/-17.8						

Notes:

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

The Qualifiers in this report are defined as follows:

U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported

QC Summary

Workorder: **634446**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time

UI	Gamma Spectroscopy--Uncertain identification
BD	Results are either below the MDC or tracer recovery is low
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
M	M if above MDC and less than LLD
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
FA	Failed analysis.
UJ	Gamma Spectroscopy--Uncertain identification
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
K	Analyte present. Reported value may be biased high. Actual value is expected to be lower.
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.
L	Analyte present. Reported value may be biased low. Actual value is expected to be higher.
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
**	Analyte is a Tracer compound
M	REMP Result > MDC/CL and < RDL
J	See case narrative for an explanation

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
** Indicates analyte is a surrogate/tracer compound.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptence criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

QC Summary

Client : **Georgia Power Company, Southern Company**
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia

Contact: **Joju Abraham**

Workorder: **634781**

Report Date: September 26, 2023

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gas Flow										
Batch 2483519										
QC1205500581 634781003 DUP										
Radium-228	U	1.10	U	0.506	pCi/L	0		N/A	JE1	09/19/2310:51
	Uncert:	+/-1.05		+/-1.18						
	TPU:	+/-1.09		+/-1.18						
QC1205500582 LCS										
Radium-228	77.5			72.3	pCi/L		93.3	(75%-125%)	JE1	09/19/2310:51
	Uncert:			+/-4.27						
	TPU:			+/-18.9						
QC1205500580 MB										
Radium-228				1.94	pCi/L				JE1	09/19/2310:51
	Uncert:			+/-1.03						
	TPU:			+/-1.15						
Rad Ra-226										
Batch 2483512										
QC1205500562 634781003 DUP										
Radium-226		1.13		1.23	pCi/L	8.5		(0% - 100%)	LXP1	09/26/2309:21
	Uncert:	+/-0.529		+/-0.578						
	TPU:	+/-0.558		+/-0.626						
QC1205500564 LCS										
Radium-226	26.9			25.2	pCi/L		93.6	(75%-125%)	LXP1	09/26/2309:21
	Uncert:			+/-2.49						
	TPU:			+/-4.93						
QC1205500561 MB										
Radium-226			U	0.162	pCi/L				LXP1	09/26/2308:46
	Uncert:			+/-0.229						
	TPU:			+/-0.231						
QC1205500563 634781003 MS										
Radium-226	125	1.13		110	pCi/L		87	(75%-125%)	LXP1	09/26/2309:21
	Uncert:	+/-0.529		+/-11.2						
	TPU:	+/-0.558		+/-25.2						

Notes:

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

The Qualifiers in this report are defined as follows:

U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported

QC Summary

Workorder: **634781**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time

UI	Gamma Spectroscopy--Uncertain identification
BD	Results are either below the MDC or tracer recovery is low
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
M	M if above MDC and less than LLD
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
FA	Failed analysis.
UJ	Gamma Spectroscopy--Uncertain identification
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
K	Analyte present. Reported value may be biased high. Actual value is expected to be lower.
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.
L	Analyte present. Reported value may be biased low. Actual value is expected to be higher.
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
**	Analyte is a Tracer compound
M	REMP Result > MDC/CL and < RDL
J	See case narrative for an explanation

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
** Indicates analyte is a surrogate/tracer compound.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptence criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

QC Summary

Client : **Georgia Power Company, Southern Company**
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia

Contact: **Joju Abraham**

Workorder: **634652**

Report Date: September 26, 2023

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gas Flow										
Batch 2483035										
QC1205499786 634652001 DUP										
Radium-228		4.20		1.85	pCi/L	77.8		(0% - 100%)	JE1	09/19/2309:26
	Uncert:	+/-1.36		+/-0.855						
	TPU:	+/-1.73		+/-0.975						
QC1205499787 LCS										
Radium-228	77.6			66.2	pCi/L		85.4	(75%-125%)	JE1	09/19/2309:26
	Uncert:			+/-4.00						
	TPU:			+/-17.3						
QC1205499785 MB										
Radium-228			U	0.216	pCi/L				JE1	09/19/2309:26
	Uncert:			+/-0.891						
	TPU:			+/-0.893						
Rad Ra-226										
Batch 2483037										
QC1205499795 634652001 DUP										
Radium-226		1.02		1.69	pCi/L	49.7		(0% - 100%)	LXP1	09/21/2310:10
	Uncert:	+/-0.480		+/-0.621						
	TPU:	+/-0.520		+/-0.674						
QC1205499797 LCS										
Radium-226	27.1			28.6	pCi/L		105	(75%-125%)	LXP1	09/21/2310:42
	Uncert:			+/-2.15						
	TPU:			+/-5.29						
QC1205499794 MB										
Radium-226			U	0.0898	pCi/L				LXP1	09/21/2310:10
	Uncert:			+/-0.278						
	TPU:			+/-0.279						
QC1205499796 634652001 MS										
Radium-226	130	1.02		139	pCi/L		106	(75%-125%)	LXP1	09/21/2310:10
	Uncert:	+/-0.480		+/-11.3						
	TPU:	+/-0.520		+/-34.8						

Notes:

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

The Qualifiers in this report are defined as follows:

U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported

QC Summary

Workorder: **634652**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time

UI	Gamma Spectroscopy--Uncertain identification
BD	Results are either below the MDC or tracer recovery is low
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
M	M if above MDC and less than LLD
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
FA	Failed analysis.
UJ	Gamma Spectroscopy--Uncertain identification
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
K	Analyte present. Reported value may be biased high. Actual value is expected to be lower.
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.
L	Analyte present. Reported value may be biased low. Actual value is expected to be higher.
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
**	Analyte is a Tracer compound
M	REMP Result > MDC/CL and < RDL
J	See case narrative for an explanation

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
** Indicates analyte is a surrogate/tracer compound.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptence criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

GEL Laboratories LLC
a member of The GEL Group INC

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October 03, 2022

Joju Abraham
Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308

Re: Branch CCR Groundwater Compliance APBCD
Work Orders: 591355,590855 and 590845

Dear Joju Abraham:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on August 24, 2022 and August 29, 2022. This revised data report has been prepared and reviewed in accordance with GEL's standard operating procedures. The data package is being revised to include 6 missing metals.

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4504.

Sincerely,

Erin Trent
Project Manager

Purchase Order: GPC82177-0003
Enclosures

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 − (843) 556−8171 − www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 591355 GEL Work Order: 591355

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

J See case narrative for an explanation

J Value is estimated

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Erin Trent.

Reviewed by Erin B Trent

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 − (843) 556−8171 − www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 590855 GEL Work Order: 590855

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

J See case narrative for an explanation

J Value is estimated

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Erin Trent.

Reviewed by Erin B Trent

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Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 590845 GEL Work Order: 590845

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

J See case narrative for an explanation

J Value is estimated

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Erin Trent.

Reviewed by Erin B Trent

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: FD-01
Sample ID: 591355001
Matrix: WG
Collect Date: 24-AUG-22 12:00
Receive Date: 29-AUG-22
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		1.10	0.0330	0.100	mg/L		1	HXC1	08/30/22	1616	2310523	1
Sulfate		828	13.3	40.0	mg/L		100	HXC1	08/31/22	0143	2310523	2
Chloride		10.8	0.335	1.00	mg/L		5	HXC1	08/31/22	0213	2310523	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/31/22	0959	2310246	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/07/22	1949	2310153	5
Arsenic	J	0.00242	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0176	0.000670	0.00400	mg/L	1.00	1					
Cadmium		0.00464	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.504	0.000300	0.00100	mg/L	1.00	1					
Iron		48.9	0.0330	0.100	mg/L	1.00	1					
Lead	J	0.000871	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0476	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		8.30	0.0800	0.300	mg/L	1.00	1					
Sodium		33.7	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Beryllium		0.0323	0.000200	0.000500	mg/L	1.00	1	BAJ	09/07/22	0240	2310153	6
Selenium	J	0.00332	0.00150	0.00500	mg/L	1.00	1					
Boron		0.449	0.0260	0.0750	mg/L	1.00	5	BAJ	09/07/22	1857	2310153	7
Calcium		137	0.400	1.00	mg/L	1.00	5					
Magnesium		76.7	0.0500	0.150	mg/L	1.00	5					
Manganese		27.1	0.100	0.500	mg/L	1.00	100	BAJ	09/07/22	1952	2310153	8
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1350	2.38	10.0	mg/L			CH6	08/30/22	1449	2310249	9
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	1.45	4.00	mg/L			HH2	09/07/22	1344	2310459	10
Bicarbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

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Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: FD-01 Project: GPCC00101
Sample ID: 591355001 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PC1	08/30/22	0900	2310152
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	08/30/22	1252	2310245

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SM 2540C	
10	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: PZ-58I
Sample ID: 591355002
Matrix: WG
Collect Date: 24-AUG-22 10:30
Receive Date: 29-AUG-22
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		3.81			SU			EOS1	08/24/22	1030	2310143	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		1.09	0.0330	0.100	mg/L		1	HXC1	08/30/22	1646	2310523	2
Sulfate		840	13.3	40.0	mg/L		100	HXC1	08/31/22	0243	2310523	3
Chloride		10.7	0.335	1.00	mg/L		5	HXC1	08/31/22	0313	2310523	4
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/31/22	1001	2310246	5
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/07/22	2001	2310153	6
Arsenic	J	0.00245	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0181	0.000670	0.00400	mg/L	1.00	1					
Cadmium		0.00460	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.503	0.000300	0.00100	mg/L	1.00	1					
Iron		48.9	0.0330	0.100	mg/L	1.00	1					
Lead	J	0.000894	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0488	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		8.25	0.0800	0.300	mg/L	1.00	1					
Sodium		34.3	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Beryllium		0.0335	0.000200	0.000500	mg/L	1.00	1	BAJ	09/07/22	0244	2310153	7
Selenium	J	0.00348	0.00150	0.00500	mg/L	1.00	1					
Boron		0.464	0.0260	0.0750	mg/L	1.00	5	BAJ	09/07/22	1900	2310153	8
Calcium		146	0.400	1.00	mg/L	1.00	5					
Magnesium		80.0	0.0500	0.150	mg/L	1.00	5					
Manganese		29.8	0.100	0.500	mg/L	1.00	100	BAJ	09/08/22	0700	2310153	9
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1380	2.38	10.0	mg/L			CH6	08/30/22	1449	2310249	10
Titration and Ion Analysis												

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Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: PZ-58I
Sample ID: 591355002
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	1.45	4.00	mg/L			HH2	09/07/22	1346	2310459	11
Bicarbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PC1	08/30/22	0900	2310152
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	08/30/22	1252	2310245

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	EPA 300.0	
3	EPA 300.0	
4	EPA 300.0	
5	SW846 7470A	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SW846 3005A/6020B	
10	SM 2540C	
11	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: PZ-60I
Sample ID: 591355003
Matrix: WG
Collect Date: 24-AUG-22 12:20
Receive Date: 29-AUG-22
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		4.55			SU			EOS1	08/24/22	1220	2310143	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		1.32	0.0330	0.100	mg/L		1	HXC1	08/30/22	1716	2310523	2
Sulfate		1770	26.6	80.0	mg/L		200	HXC1	08/31/22	0343	2310523	3
Chloride		26.7	0.335	1.00	mg/L		5	HXC1	08/31/22	0413	2310523	4
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/31/22	1013	2310246	5
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/07/22	2007	2310153	6
Arsenic	J	0.00358	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0226	0.000670	0.00400	mg/L	1.00	1					
Cadmium		0.0170	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Iron		0.533	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.101	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		14.7	0.0800	0.300	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Beryllium		0.0703	0.000200	0.000500	mg/L	1.00	1	BAJ	09/07/22	0247	2310153	7
Selenium	J	0.00417	0.00150	0.00500	mg/L	1.00	1					
Boron		0.293	0.0260	0.0750	mg/L	1.00	5	BAJ	09/07/22	1909	2310153	8
Cobalt		3.57	0.00150	0.00500	mg/L	1.00	5					
Magnesium		187	0.0500	0.150	mg/L	1.00	5					
Sodium		62.7	0.400	1.25	mg/L	1.00	5					
Calcium		281	0.800	2.00	mg/L	1.00	10	BAJ	09/07/22	2010	2310153	9
Manganese		179	1.00	5.00	mg/L	1.00	1000	BAJ	09/08/22	0702	2310153	10
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		2830	2.38	10.0	mg/L			CH6	08/30/22	1449	2310249	11
Titration and Ion Analysis												

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Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: PZ-60I
Sample ID: 591355003
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	J	2.00	1.45	4.00	mg/L			HH2	09/07/22	1347	2310459	12
Bicarbonate alkalinity (CaCO3)	J	2.00	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PC1	08/30/22	0900	2310152
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	08/30/22	1252	2310245

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	EPA 300.0	
3	EPA 300.0	
4	EPA 300.0	
5	SW846 7470A	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SW846 3005A/6020B	
10	SW846 3005A/6020B	
11	SM 2540C	
12	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: FB-02
Sample ID: 591355004
Matrix: WQ
Collect Date: 24-AUG-22 15:55
Receive Date: 29-AUG-22
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		0.207	0.0670	0.200	mg/L		1	HXC1	08/30/22	1746	2310523	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/31/22	1014	2310246	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/07/22	2025	2310153	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium	U	ND	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Sodium	U	ND	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	BAJ	09/07/22	0251	2310153	4
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1	BAJ	09/08/22	0648	2310153	5
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			CH6	08/30/22	1449	2310249	6
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	J	3.00	1.45	4.00	mg/L			HH2	09/07/22	1348	2310459	7
Bicarbonate alkalinity (CaCO3)	J	3.00	1.45	4.00	mg/L							

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Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: FB-02 Project: GPCC00101
Sample ID: 591355004 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PC1	08/30/22	0900	2310152
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	08/30/22	1252	2310245

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRGWC-29I
Sample ID: 591355005
Matrix: WG
Collect Date: 24-AUG-22 17:10
Receive Date: 29-AUG-22
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		4.39			SU			EOS1	08/24/22	1710	2310143	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		5.84	0.0670	0.200	mg/L		1	JLD1	08/30/22	2352	2310658	2
Fluoride		0.103	0.0330	0.100	mg/L		1					
Sulfate		298	13.3	40.0	mg/L		100	JLD1	08/31/22	1838	2310658	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/31/22	1016	2310246	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/07/22	2028	2310153	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0175	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00660	0.000300	0.00100	mg/L	1.00	1					
Iron		24.8	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00304	0.00300	0.0100	mg/L	1.00	1					
Magnesium		7.83	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		10.2	0.0800	0.300	mg/L	1.00	1					
Sodium		17.5	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Beryllium		0.000845	0.000200	0.000500	mg/L	1.00	1	BAJ	09/07/22	0302	2310153	6
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Boron		1.13	0.0520	0.150	mg/L	1.00	10	BAJ	09/07/22	1913	2310153	7
Calcium		61.0	0.800	2.00	mg/L	1.00	10					
Manganese		1.20	0.0100	0.0500	mg/L	1.00	10					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		383	2.38	10.0	mg/L			CH6	08/30/22	1449	2310249	8
Titration and Ion Analysis												

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Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRGWC-29I
Sample ID: 591355005
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	1.45	4.00	mg/L			HH2	09/07/22	1350	2310459	9
Bicarbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PC1	08/30/22	0900	2310152
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	08/30/22	1252	2310245

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRGWC-30I
Sample ID: 591355006
Matrix: WG
Collect Date: 24-AUG-22 16:09
Receive Date: 29-AUG-22
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		6.38			SU			EOS1	08/24/22	1609	2310143	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		4.91	0.0670	0.200	mg/L		1	JLD1	08/31/22	0124	2310658	2
Fluoride		0.318	0.0330	0.100	mg/L		1					
Sulfate		935	13.3	40.0	mg/L		100	JLD1	08/31/22	1157	2310658	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/31/22	1018	2310246	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/07/22	2031	2310153	5
Arsenic	J	0.00283	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0389	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00163	0.000300	0.00100	mg/L	1.00	1					
Iron		1.41	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0238	0.00300	0.0100	mg/L	1.00	1					
Molybdenum		0.00141	0.000200	0.00100	mg/L	1.00	1					
Potassium		6.13	0.0800	0.300	mg/L	1.00	1					
Sodium		30.5	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	BAJ	09/07/22	0305	2310153	6
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Boron		2.15	0.104	0.300	mg/L	1.00	20	BAJ	09/07/22	1916	2310153	7
Calcium		316	1.60	4.00	mg/L	1.00	20					
Magnesium		57.3	0.200	0.600	mg/L	1.00	20					
Manganese		1.15	0.0200	0.100	mg/L	1.00	20					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1540	2.38	10.0	mg/L			CH6	08/30/22	1449	2310249	8
Titration and Ion Analysis												

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Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRGWC-30I
Sample ID: 591355006
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		132	1.45	4.00	mg/L			HH2	09/07/22	1351	2310459	9
Bicarbonate alkalinity (CaCO3)		132	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PC1	08/30/22	0900	2310152
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	08/30/22	1252	2310245

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRGWC-50
Sample ID: 591355007
Matrix: WG
Collect Date: 24-AUG-22 14:51
Receive Date: 29-AUG-22
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		5.01			SU			EOS1	08/24/22	1451	2310143	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		0.497	0.0330	0.100	mg/L		1	JLD1	08/31/22	0155	2310658	2
Sulfate		1400	13.3	40.0	mg/L		100	JLD1	08/31/22	1228	2310658	3
Chloride		15.8	0.335	1.00	mg/L		5	JLD1	08/31/22	1259	2310658	4
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/31/22	1019	2310246	5
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/07/22	2035	2310153	6
Arsenic	J	0.00250	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0166	0.000670	0.00400	mg/L	1.00	1					
Cadmium		0.00818	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Iron		0.200	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0428	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		11.4	0.0800	0.300	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Beryllium		0.00831	0.000200	0.000500	mg/L	1.00	1	BAJ	09/07/22	0309	2310153	7
Selenium	J	0.00176	0.00150	0.00500	mg/L	1.00	1					
Boron		0.406	0.0260	0.0750	mg/L	1.00	5	BAJ	09/07/22	1919	2310153	8
Calcium		215	0.400	1.00	mg/L	1.00	5					
Cobalt		1.42	0.00150	0.00500	mg/L	1.00	5					
Magnesium		151	0.0500	0.150	mg/L	1.00	5					
Sodium		51.7	0.400	1.25	mg/L	1.00	5					
Manganese		83.4	1.00	5.00	mg/L	1.00	1000	BAJ	09/08/22	0704	2310153	9
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1990	2.38	10.0	mg/L			CH6	08/30/22	1449	2310249	10
Titration and Ion Analysis												

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Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRGWC-50 Project: GPCC00101
Sample ID: 591355007 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		9.40	1.45	4.00	mg/L			HH2	09/07/22	1353	2310459	11
Bicarbonate alkalinity (CaCO3)		9.40	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PC1	08/30/22	0900	2310152
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	08/30/22	1252	2310245

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	EPA 300.0	
3	EPA 300.0	
4	EPA 300.0	
5	SW846 7470A	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SW846 3005A/6020B	
10	SM 2540C	
11	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: FD-03
Sample ID: 591355008
Matrix: WG
Collect Date: 25-AUG-22 12:00
Receive Date: 29-AUG-22
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		0.163	0.0330	0.100	mg/L		1	JLD1	08/31/22	0226	2310658	1
Chloride		15.0	0.670	2.00	mg/L		10	JLD1	08/31/22	1330	2310658	2
Sulfate		114	1.33	4.00	mg/L		10					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/31/22	1021	2310246	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/07/22	2053	2310153	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0570	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		33.8	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00349	0.000300	0.00100	mg/L	1.00	1					
Iron		0.160	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		17.9	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	J	0.000477	0.000200	0.00100	mg/L	1.00	1					
Potassium		3.24	0.0800	0.300	mg/L	1.00	1					
Sodium		14.8	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	BAJ	09/07/22	0313	2310153	5
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Boron		0.0448	0.00520	0.0150	mg/L	1.00	1	BAJ	09/08/22	0650	2310153	6
Manganese		0.297	0.00100	0.00500	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		246	2.38	10.0	mg/L			CH6	08/31/22	1439	2310760	7
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		42.4	1.45	4.00	mg/L			HH2	09/07/22	1746	2310460	8
Bicarbonate alkalinity (CaCO3)		42.4	1.45	4.00	mg/L							

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Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: FD-03 Project: GPCC00101
Sample ID: 591355008 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PC1	08/30/22	0900	2310152
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	08/30/22	1252	2310245

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRGWC-45
Sample ID: 591355009
Matrix: WG
Collect Date: 25-AUG-22 10:10
Receive Date: 29-AUG-22
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		5.74			SU			EOS1	08/25/22	1010	2310143	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		0.166	0.0330	0.100	mg/L		1	JLD1	08/31/22	0257	2310658	2
Chloride		14.9	0.670	2.00	mg/L		10	JLD1	08/31/22	1400	2310658	3
Sulfate		114	1.33	4.00	mg/L		10					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/31/22	1023	2310246	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/07/22	2056	2310153	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0574	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		33.5	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00357	0.000300	0.00100	mg/L	1.00	1					
Iron		0.166	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		17.9	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	J	0.000424	0.000200	0.00100	mg/L	1.00	1					
Potassium		3.19	0.0800	0.300	mg/L	1.00	1					
Sodium		14.5	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	BAJ	09/07/22	0316	2310153	6
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Boron		0.0458	0.00520	0.0150	mg/L	1.00	1	BAJ	09/08/22	0652	2310153	7
Manganese		0.302	0.00100	0.00500	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		248	2.38	10.0	mg/L			CH6	08/31/22	1439	2310760	8
Titration and Ion Analysis												

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Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRGWC-45 Project: GPCC00101
Sample ID: 591355009 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		43.4	1.45	4.00	mg/L			HH2	09/07/22	1751	2310460	9
Bicarbonate alkalinity (CaCO3)		43.4	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PC1	08/30/22	0900	2310152
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	08/30/22	1252	2310245

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: PZ-44
Sample ID: 591355010
Matrix: WG
Collect Date: 25-AUG-22 11:31
Receive Date: 29-AUG-22
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		6.06			SU			EOS1	08/25/22	1131	2310143	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		6.28	0.0670	0.200	mg/L		1	JLD1	08/31/22	0328	2310658	2
Fluoride		0.184	0.0330	0.100	mg/L		1					
Sulfate		47.0	1.33	4.00	mg/L		10	JLD1	08/31/22	1431	2310658	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/31/22	1025	2310246	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/07/22	2059	2310153	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0560	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		27.2	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0537	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00652	0.00300	0.0100	mg/L	1.00	1					
Magnesium		11.5	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		2.67	0.0800	0.300	mg/L	1.00	1					
Sodium		12.7	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	BAJ	09/07/22	0320	2310153	6
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Boron		1.59	0.104	0.300	mg/L	1.00	20	BAJ	09/07/22	1922	2310153	7
Manganese		0.447	0.00100	0.00500	mg/L	1.00	1	BAJ	09/08/22	0653	2310153	8
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		167	2.38	10.0	mg/L			CH6	08/31/22	1439	2310760	9
Titration and Ion Analysis												

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Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: PZ-44 Project: GPCC00101
Sample ID: 591355010 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		78.0	1.45	4.00	mg/L			HH2	09/07/22	1753	2310460	10
Bicarbonate alkalinity (CaCO3)		78.0	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PC1	08/30/22	0900	2310152
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	08/30/22	1252	2310245

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SM 2540C	
10	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: PZ-51I
Sample ID: 591355011
Matrix: WG
Collect Date: 24-AUG-22 12:34
Receive Date: 29-AUG-22
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		5.49			SU			EOS1	08/24/22	1234	2310143	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		0.148	0.0330	0.100	mg/L		1	JLD1	08/31/22	0500	2310658	2
Sulfate		1240	13.3	40.0	mg/L		100	JLD1	08/31/22	1502	2310658	3
Chloride		9.64	0.134	0.400	mg/L		2	JLD1	08/31/22	1635	2310658	4
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/31/22	1026	2310246	5
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/07/22	2102	2310153	6
Arsenic	J	0.00222	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0154	0.000670	0.00400	mg/L	1.00	1					
Cadmium		0.00478	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.0239	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0930	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0222	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	J	0.000313	0.000200	0.00100	mg/L	1.00	1					
Potassium		11.8	0.0800	0.300	mg/L	1.00	1					
Sodium		47.2	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	BAJ	09/07/22	0323	2310153	7
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Boron		0.459	0.0260	0.0750	mg/L	1.00	5	BAJ	09/07/22	1925	2310153	8
Calcium		197	0.400	1.00	mg/L	1.00	5					
Magnesium		134	0.0500	0.150	mg/L	1.00	5					
Manganese		47.4	1.00	5.00	mg/L	1.00	1000	BAJ	09/08/22	0659	2310153	9
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1740	2.38	10.0	mg/L			CH6	08/30/22	1449	2310249	10
Titration and Ion Analysis												

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Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: PZ-51I
Sample ID: 591355011
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		22.0	1.45	4.00	mg/L			HH2	09/07/22	1355	2310459	11
Bicarbonate alkalinity (CaCO3)		22.0	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PC1	08/30/22	0900	2310152
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	08/30/22	1252	2310245

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	EPA 300.0	
3	EPA 300.0	
4	EPA 300.0	
5	SW846 7470A	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SW846 3005A/6020B	
10	SM 2540C	
11	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: PZ-51D
Sample ID: 591355012
Matrix: WG
Collect Date: 24-AUG-22 10:49
Receive Date: 29-AUG-22
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		7.15			SU			EOS1	08/24/22	1049	2310143	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		0.318	0.0330	0.100	mg/L		1	JLD1	08/31/22	0531	2310658	2
Chloride		17.5	3.35	10.0	mg/L		50	JLD1	08/31/22	1705	2310658	3
Sulfate		377	6.65	20.0	mg/L		50					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/31/22	1031	2310246	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/09/22	2055	2310155	5
Arsenic	J	0.00308	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0584	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000306	0.000300	0.00100	mg/L	1.00	1					
Iron		2.89	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00420	0.00300	0.0100	mg/L	1.00	1					
Magnesium		28.1	0.0100	0.0300	mg/L	1.00	1					
Molybdenum		0.00171	0.000200	0.00100	mg/L	1.00	1					
Potassium		9.82	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		39.8	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	PRB	09/10/22	1050	2310155	6
Boron		0.0360	0.00520	0.0150	mg/L	1.00	1					
Calcium		118	0.800	2.00	mg/L	1.00	10	PRB	09/10/22	0719	2310155	7
Manganese		1.11	0.0100	0.0500	mg/L	1.00	10					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		715	2.38	10.0	mg/L			CH6	08/30/22	1449	2310249	8
Titration and Ion Analysis												

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Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: PZ-51D
Sample ID: 591355012
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		129	1.45	4.00	mg/L			HH2	09/07/22	1356	2310459	9
Bicarbonate alkalinity (CaCO3)		129	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PC1	08/30/22	0900	2310154
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	08/30/22	1252	2310245

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: PZ-61I
Sample ID: 591355013
Matrix: WG
Collect Date: 24-AUG-22 14:02
Receive Date: 29-AUG-22
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		5.14			SU			EOS1	08/24/22	1402	2310143	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		0.103	0.0330	0.100	mg/L		1	JLD1	08/31/22	0602	2310658	2
Sulfate		1800	26.6	80.0	mg/L		200	JLD1	08/31/22	1736	2310658	3
Chloride		19.2	0.670	2.00	mg/L		10	JLD1	08/31/22	1807	2310658	4
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/31/22	1033	2310246	5
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/09/22	2121	2310155	6
Arsenic	J	0.00295	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0133	0.000670	0.00400	mg/L	1.00	1					
Cadmium	J	0.000859	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.562	0.000300	0.00100	mg/L	1.00	1					
Iron		0.532	0.0330	0.100	mg/L	1.00	1					
Lead	J	0.00113	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00913	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		6.34	0.0800	0.300	mg/L	1.00	1					
Selenium		0.00510	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Beryllium		0.00198	0.000200	0.000500	mg/L	1.00	1	PRB	09/10/22	1100	2310155	7
Boron		0.277	0.0260	0.0750	mg/L	1.00	5	PRB	09/10/22	0734	2310155	8
Calcium		214	0.400	1.00	mg/L	1.00	5					
Magnesium		165	0.0500	0.150	mg/L	1.00	5					
Sodium		58.8	0.400	1.25	mg/L	1.00	5					
Manganese		108	1.00	5.00	mg/L	1.00	1000	PRB	09/10/22	0839	2310155	9
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		2400	2.38	10.0	mg/L			CH6	08/30/22	1449	2310249	10
Titration and Ion Analysis												

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Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: PZ-61I
Sample ID: 591355013
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		16.8	1.45	4.00	mg/L			HH2	09/07/22	1401	2310459	11
Bicarbonate alkalinity (CaCO3)		16.8	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PC1	08/30/22	0900	2310154
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	08/30/22	1252	2310245

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	EPA 300.0	
3	EPA 300.0	
4	EPA 300.0	
5	SW846 7470A	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SW846 3005A/6020B	
10	SM 2540C	
11	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: PZ-51S
Sample ID: 591355014
Matrix: WG
Collect Date: 24-AUG-22 16:09
Receive Date: 29-AUG-22
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		6.12			SU			EOS1	08/24/22	1609	2310143	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		4.58	0.0670	0.200	mg/L		1	JLD1	08/31/22	0633	2310658	2
Fluoride		0.131	0.0330	0.100	mg/L		1					
Sulfate		0.872	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/31/22	1035	2310246	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/09/22	2124	2310155	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0223	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		7.94	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00193	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		8.23	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		2.37	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		11.1	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	PRB	09/10/22	1105	2310155	5
Boron	J	0.00563	0.00520	0.0150	mg/L	1.00	1					
Manganese		0.781	0.00100	0.00500	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		90.0	2.38	10.0	mg/L			CH6	08/30/22	1449	2310249	6
Titration and Ion Analysis												

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Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: PZ-51S
Sample ID: 591355014
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		64.2	1.45	4.00	mg/L			HH2	09/07/22	1403	2310459	7
Bicarbonate alkalinity (CaCO3)		64.2	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PC1	08/30/22	0900	2310154
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	08/30/22	1252	2310245

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: FD-02
Sample ID: 591355015
Matrix: WG
Collect Date: 24-AUG-22 12:00
Receive Date: 29-AUG-22
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		4.20	0.0670	0.200	mg/L		1	HXC1	08/31/22	1152	2310688	1
Fluoride		0.121	0.0330	0.100	mg/L		1					
Sulfate		0.880	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/31/22	1037	2310246	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/09/22	2128	2310155	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0228	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		8.37	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00188	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		8.58	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		2.47	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		11.3	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	PRB	09/10/22	1111	2310155	4
Boron	J	0.00617	0.00520	0.0150	mg/L	1.00	1					
Manganese		0.805	0.00100	0.00500	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		87.0	2.38	10.0	mg/L			CH6	08/30/22	1449	2310249	5
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		64.6	1.45	4.00	mg/L			HH2	09/07/22	1404	2310459	6
Bicarbonate alkalinity (CaCO3)		64.6	1.45	4.00	mg/L							

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Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: FD-02 Project: GPCC00101
Sample ID: 591355015 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PC1	08/30/22	0900	2310154
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	08/30/22	1252	2310245

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	
6	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: PZ-50D
Sample ID: 591355016
Matrix: WG
Collect Date: 25-AUG-22 09:51
Receive Date: 29-AUG-22
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		6.11			SU			EOS1	08/25/22	0951	2310143	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		0.106	0.0330	0.100	mg/L		1	HXC1	08/31/22	1221	2310688	2
Chloride		26.2	6.70	20.0	mg/L		100	HXC1	08/31/22	2149	2310688	3
Sulfate		1060	13.3	40.0	mg/L		100					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/31/22	1038	2310246	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/09/22	2131	2310155	5
Arsenic	J	0.00235	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0257	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.506	0.000300	0.00100	mg/L	1.00	1					
Iron		3.62	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0255	0.00300	0.0100	mg/L	1.00	1					
Molybdenum		0.00109	0.000200	0.00100	mg/L	1.00	1					
Potassium		13.5	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Beryllium	J	0.000269	0.000200	0.000500	mg/L	1.00	1	PRB	09/10/22	1113	2310155	6
Boron		0.278	0.0260	0.0750	mg/L	1.00	5	PRB	09/10/22	0741	2310155	7
Calcium		210	0.400	1.00	mg/L	1.00	5					
Magnesium		95.7	0.0500	0.150	mg/L	1.00	5					
Sodium		53.6	0.400	1.25	mg/L	1.00	5					
Manganese		36.1	0.100	0.500	mg/L	1.00	100	PRB	09/10/22	0745	2310155	8
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1750	2.38	10.0	mg/L			CH6	08/31/22	1439	2310760	9
Titration and Ion Analysis												

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Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: PZ-50D
Sample ID: 591355016
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		57.0	1.45	4.00	mg/L			HH2	09/07/22	1754	2310460	10
Bicarbonate alkalinity (CaCO3)		57.0	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PC1	08/30/22	0900	2310154
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	08/30/22	1252	2310245

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SM 2540C	
10	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: EB-06
Sample ID: 591355017
Matrix: WQ
Collect Date: 25-AUG-22 09:42
Receive Date: 29-AUG-22
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	HXC1	08/31/22	1251	2310688	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/31/22	1040	2310246	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/09/22	2135	2310155	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium	U	ND	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium	U	ND	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	PRB	09/10/22	1117	2310155	4
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1					
Manganese		0.00523	0.00100	0.00500	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			CH6	08/31/22	1439	2310760	5
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	J	3.00	1.45	4.00	mg/L			HH2	09/07/22	1755	2310460	6
Bicarbonate alkalinity (CaCO3)	J	3.00	1.45	4.00	mg/L							

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Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: EB-06 Project: GPCC00101
Sample ID: 591355017 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PC1	08/30/22	0900	2310154
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	08/30/22	1252	2310245

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	
6	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: PZ-62I
Sample ID: 591355018
Matrix: WG
Collect Date: 25-AUG-22 11:21
Receive Date: 29-AUG-22
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		5.50			SU			EOS1	08/25/22	1121	2310143	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		9.97	0.0670	0.200	mg/L		1	HXC1	08/31/22	1321	2310688	2
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate		571	6.65	20.0	mg/L		50	HXC1	08/31/22	2219	2310688	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/31/22	1042	2310246	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/09/22	2139	2310155	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0259	0.000670	0.00400	mg/L	1.00	1					
Cadmium	J	0.000618	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.370	0.000300	0.00100	mg/L	1.00	1					
Iron		1.03	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00617	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	J	0.000286	0.000200	0.00100	mg/L	1.00	1					
Potassium		9.67	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		25.6	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Beryllium	J	0.000219	0.000200	0.000500	mg/L	1.00	1	PRB	09/10/22	1119	2310155	6
Boron		0.473	0.0260	0.0750	mg/L	1.00	5	PRB	09/10/22	0755	2310155	7
Calcium		104	0.400	1.00	mg/L	1.00	5					
Magnesium		54.2	0.0500	0.150	mg/L	1.00	5					
Manganese		26.9	0.100	0.500	mg/L	1.00	100	PRB	09/10/22	0759	2310155	8
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		918	2.38	10.0	mg/L			CH6	08/31/22	1439	2310760	9
Titration and Ion Analysis												

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Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: PZ-62I
Sample ID: 591355018
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		19.2	1.45	4.00	mg/L			HH2	09/07/22	1756	2310460	10
Bicarbonate alkalinity (CaCO3)		19.2	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PC1	08/30/22	0900	2310154
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	08/30/22	1252	2310245

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SM 2540C	
10	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: PZ-59I
Sample ID: 591355019
Matrix: WG
Collect Date: 25-AUG-22 13:16
Receive Date: 29-AUG-22
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		3.72			SU			EOS1	08/25/22	1316	2310143	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		1.80	0.0330	0.100	mg/L		1	HXC1	08/31/22	1351	2310688	2
Chloride		53.0	13.4	40.0	mg/L		200	HXC1	08/31/22	2348	2310688	3
Sulfate		2900	26.6	80.0	mg/L		200					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/31/22	1043	2310246	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/09/22	2142	2310155	5
Arsenic		0.0221	0.00200	0.00500	mg/L	1.00	1					
Cadmium		0.00536	0.000300	0.00100	mg/L	1.00	1					
Chromium	J	0.00324	0.00300	0.0100	mg/L	1.00	1					
Lithium		0.164	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		16.4	0.0800	0.300	mg/L	1.00	1					
Selenium		0.113	0.00150	0.00500	mg/L	1.00	1					
Beryllium		0.100	0.000200	0.000500	mg/L	1.00	1	PRB	09/10/22	1121	2310155	6
Boron		0.0550	0.00520	0.0150	mg/L	1.00	1					
Barium	J	0.0121	0.00335	0.0200	mg/L	1.00	5	PRB	09/10/22	0803	2310155	7
Cobalt		1.46	0.00150	0.00500	mg/L	1.00	5					
Lead	U	ND	0.00250	0.0100	mg/L	1.00	5					
Magnesium		180	0.0500	0.150	mg/L	1.00	5					
Sodium		92.0	0.400	1.25	mg/L	1.00	5					
Thallium	U	ND	0.00300	0.0100	mg/L	1.00	5					
Calcium		267	8.00	20.0	mg/L	1.00	100	PRB	09/10/22	0806	2310155	8
Iron		448	3.30	10.0	mg/L	1.00	100					
Manganese		74.7	0.100	0.500	mg/L	1.00	100					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		4370	2.38	10.0	mg/L			CH6	08/31/22	1439	2310760	9
Titration and Ion Analysis												

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Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: PZ-59I
Sample ID: 591355019
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	1.45	4.00	mg/L			HH2	09/07/22	1758	2310460	10
Bicarbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PC1	08/30/22	0900	2310154
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	08/30/22	1252	2310245

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SM 2540C	
10	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRGWC-27I
Sample ID: 591355020
Matrix: WG
Collect Date: 25-AUG-22 10:12
Receive Date: 29-AUG-22
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		6.03			SU			EOS1	08/25/22	1012	2310143	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		4.65	0.0670	0.200	mg/L		1	HXC1	08/31/22	1421	2310688	2
Fluoride		0.234	0.0330	0.100	mg/L		1					
Sulfate		176	2.66	8.00	mg/L		20	HXC1	09/01/22	0018	2310688	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/31/22	1045	2310246	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/09/22	2153	2310155	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0161	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00790	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0361	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		5.73	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		5.03	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		14.6	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	PRB	09/10/22	1125	2310155	6
Manganese		0.674	0.00100	0.00500	mg/L	1.00	1					
Boron		1.03	0.0520	0.150	mg/L	1.00	10	PRB	09/10/22	0810	2310155	7
Calcium		64.0	0.800	2.00	mg/L	1.00	10					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		311	2.38	10.0	mg/L			CH6	08/31/22	1439	2310760	8
Titration and Ion Analysis												

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Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRGWC-27I
Sample ID: 591355020
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		33.4	1.45	4.00	mg/L			HH2	09/07/22	1801	2310460	9
Bicarbonate alkalinity (CaCO3)		33.4	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PC1	08/30/22	0900	2310154
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	08/30/22	1252	2310245

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: FB-03
Sample ID: 591355021
Matrix: WQ
Collect Date: 25-AUG-22 10:45
Receive Date: 29-AUG-22
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	HXC1	08/31/22	1451	2310688	1
Fluoride	J	0.0890	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/31/22	1128	2310248	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/09/22	2157	2310155	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium	U	ND	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium	J	0.107	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	PRB	09/10/22	1129	2310155	4
Boron	J	0.00648	0.00520	0.0150	mg/L	1.00	1					
Manganese		0.00513	0.00100	0.00500	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			CH6	08/31/22	1439	2310760	5
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	J	3.20	1.45	4.00	mg/L			HH2	09/07/22	1802	2310460	6
Bicarbonate alkalinity (CaCO3)	J	3.20	1.45	4.00	mg/L							

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Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: FB-03 Project: GPCC00101
Sample ID: 591355021 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PC1	08/30/22	0900	2310154
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	08/30/22	1252	2310247

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	
6	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: PZ-63I
Sample ID: 591355022
Matrix: WG
Collect Date: 25-AUG-22 12:20
Receive Date: 29-AUG-22
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		5.65			SU			EOS1	08/25/22	1220	2310143	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		6.15	0.0670	0.200	mg/L		1	HXC1	08/31/22	1521	2310688	2
Fluoride		0.235	0.0330	0.100	mg/L		1					
Sulfate		234	2.66	8.00	mg/L		20	HXC1	09/01/22	0048	2310688	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/31/22	1133	2310248	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/09/22	2200	2310155	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0230	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		45.1	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.0232	0.000300	0.00100	mg/L	1.00	1					
Iron		2.04	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00509	0.00300	0.0100	mg/L	1.00	1					
Magnesium		30.1	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	J	0.000741	0.000200	0.00100	mg/L	1.00	1					
Potassium		7.94	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		16.4	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	PRB	09/10/22	1134	2310155	6
Boron		0.672	0.0520	0.150	mg/L	1.00	10	PRB	09/10/22	0813	2310155	7
Manganese		5.46	0.0100	0.0500	mg/L	1.00	10					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		419	2.38	10.0	mg/L			CH6	08/31/22	1439	2310760	8
Titration and Ion Analysis												

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Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: PZ-63I
Sample ID: 591355022
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		32.8	1.45	4.00	mg/L			HH2	09/07/22	1803	2310460	9
Bicarbonate alkalinity (CaCO3)		32.8	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PC1	08/30/22	0900	2310154
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	08/30/22	1252	2310247

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: PZ-57I
Sample ID: 591355023
Matrix: WG
Collect Date: 25-AUG-22 10:55
Receive Date: 29-AUG-22
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		5.91			SU			EOS1	08/25/22	1055	2310143	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		8.41	0.0670	0.200	mg/L		1	HXC1	08/31/22	1551	2310688	2
Fluoride		0.235	0.0330	0.100	mg/L		1					
Sulfate		294	5.32	16.0	mg/L		40	HXC1	09/01/22	0118	2310688	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/31/22	1135	2310248	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/09/22	2204	2310155	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0219	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.0194	0.000300	0.00100	mg/L	1.00	1					
Iron		1.35	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0231	0.00300	0.0100	mg/L	1.00	1					
Magnesium		31.1	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		5.52	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		19.0	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Beryllium	J	0.000393	0.000200	0.000500	mg/L	1.00	1	PRB	09/10/22	1136	2310155	6
Boron		0.496	0.0260	0.0750	mg/L	1.00	5	PRB	09/10/22	0817	2310155	7
Calcium		53.0	0.400	1.00	mg/L	1.00	5					
Manganese		14.2	0.0200	0.100	mg/L	1.00	20	PRB	09/10/22	0821	2310155	8
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		554	2.38	10.0	mg/L			CH6	08/31/22	1439	2310760	9
Titration and Ion Analysis												

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Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: PZ-57I
Sample ID: 591355023
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		27.0	1.45	4.00	mg/L			HH2	09/07/22	1804	2310460	10
Bicarbonate alkalinity (CaCO3)		27.0	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PC1	08/30/22	0900	2310154
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	08/30/22	1252	2310247

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SM 2540C	
10	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRGWC-32S
Sample ID: 591355024
Matrix: WG
Collect Date: 25-AUG-22 12:35
Receive Date: 29-AUG-22
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		6.06			SU			EOS1	08/25/22	1235	2310143	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		3.96	0.0670	0.200	mg/L		1	HXC1	08/31/22	1620	2310688	2
Fluoride		0.138	0.0330	0.100	mg/L		1					
Sulfate		254	2.66	8.00	mg/L		20	HXC1	09/01/22	0148	2310688	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/31/22	1137	2310248	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/09/22	2208	2310155	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0231	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		48.5	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00430	0.00300	0.0100	mg/L	1.00	1					
Magnesium		30.9	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		2.25	0.0800	0.300	mg/L	1.00	1					
Selenium		0.218	0.00150	0.00500	mg/L	1.00	1					
Sodium		26.6	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	PRB	09/10/22	1138	2310155	6
Manganese		0.0107	0.00100	0.00500	mg/L	1.00	1					
Boron		1.07	0.0520	0.150	mg/L	1.00	10	PRB	09/10/22	0824	2310155	7
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		437	2.38	10.0	mg/L			CH6	08/31/22	1439	2310760	8
Titration and Ion Analysis												

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Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRGWC-32S
Sample ID: 591355024
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		30.2	1.45	4.00	mg/L			HH2	09/07/22	1805	2310460	9
Bicarbonate alkalinity (CaCO3)		30.2	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PC1	08/30/22	0900	2310154
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	08/30/22	1252	2310247

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: EB-07
Sample ID: 591355025
Matrix: WQ
Collect Date: 25-AUG-22 12:45
Receive Date: 29-AUG-22
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	HXC1	08/31/22	1750	2310688	1
Fluoride	J	0.0758	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/31/22	1139	2310248	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/09/22	2211	2310155	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium	U	ND	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium	U	ND	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	PRB	09/10/22	1140	2310155	4
Boron		0.0159	0.00520	0.0150	mg/L	1.00	1					
Manganese	J	0.00387	0.00100	0.00500	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			CH6	08/31/22	1439	2310760	5
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	J	2.80	1.45	4.00	mg/L			HH2	09/07/22	1806	2310460	6
Bicarbonate alkalinity (CaCO3)	J	2.80	1.45	4.00	mg/L							

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Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: EB-07 Project: GPCC00101
Sample ID: 591355025 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PC1	08/30/22	0900	2310154
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	08/30/22	1252	2310247

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	
6	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRGWC-52I
Sample ID: 591355026
Matrix: WG
Collect Date: 25-AUG-22 12:55
Receive Date: 29-AUG-22
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		6.21			SU			EOS1	08/25/22	1255	2310143	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		6.27	0.0670	0.200	mg/L		1	HXC1	08/31/22	1820	2310688	2
Fluoride		0.157	0.0330	0.100	mg/L		1					
Sulfate		142	1.33	4.00	mg/L		10	HXC1	09/01/22	0218	2310688	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/31/22	1140	2310248	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/09/22	2215	2310155	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0179	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		38.3	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron		1.16	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0162	0.00300	0.0100	mg/L	1.00	1					
Magnesium		18.3	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	J	0.000471	0.000200	0.00100	mg/L	1.00	1					
Potassium		4.96	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		19.2	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	PRB	09/10/22	1142	2310155	6
Manganese		0.601	0.00100	0.00500	mg/L	1.00	1					
Boron		1.56	0.104	0.300	mg/L	1.00	20	PRB	09/10/22	0828	2310155	7
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		296	2.38	10.0	mg/L			CH6	08/31/22	1439	2310760	8
Titration and Ion Analysis												

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Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRGWC-52I
Sample ID: 591355026
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		57.2	1.45	4.00	mg/L			HH2	09/07/22	1807	2310460	9
Bicarbonate alkalinity (CaCO3)		57.2	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PC1	08/30/22	0900	2310154
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	08/30/22	1252	2310247

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRGWA-12I
Sample ID: 590855001
Matrix: WG
Collect Date: 23-AUG-22 11:43
Receive Date: 24-AUG-22
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		6.39			SU			EOS1	08/23/22	1143	2308295	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		2.50	0.0670	0.200	mg/L		1	JLD1	08/25/22	1857	2308691	2
Fluoride		0.151	0.0330	0.100	mg/L		1					
Sulfate		1.84	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/26/22	1054	2308549	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1	BAJ	09/03/22	0024	2308385	4
Barium		0.0602	0.000670	0.00400	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00451	0.00300	0.0100	mg/L	1.00	1					
Potassium		3.37	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		10.3	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Antimony		0.0241	0.00100	0.00300	mg/L	1.00	1	BAJ	09/03/22	1455	2308385	5
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	BAJ	09/03/22	1151	2308385	6
Boron	J	0.00653	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		15.8	0.0800	0.200	mg/L	1.00	1					
Magnesium		4.00	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.00506	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000413	0.000200	0.00100	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		104	2.38	10.0	mg/L			CH6	08/26/22	1530	2309029	7
Titration and Ion Analysis												

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Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRGWA-12I
Sample ID: 590855001
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		65.8	1.45	4.00	mg/L			HH2	09/04/22	1349	2309339	8
Bicarbonate alkalinity (CaCO3)		65.8	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PC1	08/26/22	0900	2308382
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	08/25/22	1146	2308547

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: FB-01 | Project: GPCC00101
Sample ID: 590855002 | Client ID: GPCC001
Matrix: WQ
Collect Date: 23-AUG-22 13:15
Receive Date: 24-AUG-22
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	J	0.186	0.0670	0.200	mg/L		1	JLD1	08/25/22	1926	2308691	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/26/22	1056	2308549	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1	BAJ	09/03/22	0028	2308385	3
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		0.565	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/03/22	1457	2308385	4
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	BAJ	09/03/22	1134	2308385	5
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		0.250	0.0800	0.200	mg/L	1.00	1					
Magnesium	J	0.0137	0.0100	0.0300	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			CH6	08/26/22	1530	2309029	6
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		31.0	1.45	4.00	mg/L			HH2	09/04/22	1350	2309339	7
Bicarbonate alkalinity (CaCO3)		31.0	1.45	4.00	mg/L							

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Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: FB-01 Project: GPCC00101
Sample ID: 590855002 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PC1	08/26/22	0900	2308382
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	08/25/22	1146	2308547

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRGWA-12S
Sample ID: 590855003
Matrix: WG
Collect Date: 23-AUG-22 13:38
Receive Date: 24-AUG-22
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		5.90			SU			EOS1	08/23/22	1338	2308295	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		5.46	0.0670	0.200	mg/L		1	JLD1	08/25/22	1956	2308691	2
Fluoride		0.129	0.0330	0.100	mg/L		1					
Sulfate		0.636	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/26/22	1058	2308549	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1	BAJ	09/03/22	0039	2308385	4
Barium		0.0607	0.000670	0.00400	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Potassium		2.55	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		5.41	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/03/22	1459	2308385	5
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	BAJ	09/03/22	1137	2308385	6
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		6.09	0.0800	0.200	mg/L	1.00	1					
Magnesium		3.53	0.0100	0.0300	mg/L	1.00	1					
Manganese	J	0.00103	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		55.0	2.38	10.0	mg/L			CH6	08/26/22	1530	2309029	7
Titration and Ion Analysis												

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Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRGWA-12S
Sample ID: 590855003
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		32.0	1.45	4.00	mg/L			HH2	09/04/22	1351	2309339	8
Bicarbonate alkalinity (CaCO3)		32.0	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PC1	08/26/22	0900	2308382
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	08/25/22	1146	2308547

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRGWC-25I
Sample ID: 590855004
Matrix: WG
Collect Date: 23-AUG-22 15:41
Receive Date: 24-AUG-22
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		6.11			SU			EOS1	08/23/22	1541	2308295	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		5.38	0.0670	0.200	mg/L		1	JLD1	08/25/22	2026	2308691	2
Fluoride		0.186	0.0330	0.100	mg/L		1					
Sulfate		158	2.66	8.00	mg/L		20	JLD1	08/26/22	0255	2308691	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/26/22	1103	2308549	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1	BAJ	09/03/22	0042	2308385	5
Barium		0.0259	0.000670	0.00400	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00342	0.000300	0.00100	mg/L	1.00	1					
Iron		0.193	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Potassium		4.20	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		16.7	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/03/22	1504	2308385	6
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	BAJ	09/03/22	1233	2308385	7
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Magnesium		21.4	0.0100	0.0300	mg/L	1.00	1					
Molybdenum		0.00105	0.000200	0.00100	mg/L	1.00	1					
Boron		1.38	0.104	0.300	mg/L	1.00	20	BAJ	09/03/22	1207	2308385	8
Calcium		51.5	1.60	4.00	mg/L	1.00	20					
Manganese		1.68	0.0200	0.100	mg/L	1.00	20					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		315	2.38	10.0	mg/L			CH6	08/26/22	1530	2309029	9
Titration and Ion Analysis												

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Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRGWC-25I
Sample ID: 590855004
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		75.6	1.45	4.00	mg/L			HH2	09/04/22	1352	2309339	10
Bicarbonate alkalinity (CaCO3)		75.6	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PC1	08/26/22	0900	2308382
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	08/25/22	1146	2308547

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SM 2540C	
10	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRGWA-23S
Sample ID: 590845001
Matrix: WG
Collect Date: 23-AUG-22 13:45
Receive Date: 24-AUG-22
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		5.66			SU			EOS1	08/23/22	1345	2308297	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		3.16	0.0670	0.200	mg/L		1	JLD1	08/25/22	1627	2308691	2
Fluoride		0.157	0.0330	0.100	mg/L		1					
Sulfate		24.4	0.266	0.800	mg/L		2	JLD1	08/26/22	0155	2308691	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/26/22	1148	2308555	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1	BAJ	09/03/22	0014	2308385	5
Barium		0.0573	0.000670	0.00400	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000308	0.000300	0.00100	mg/L	1.00	1					
Iron		0.114	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00792	0.00300	0.0100	mg/L	1.00	1					
Potassium		2.52	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		9.81	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/03/22	1450	2308385	6
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	BAJ	09/03/22	1119	2308385	7
Boron		0.0498	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		8.09	0.0800	0.200	mg/L	1.00	1					
Magnesium		4.69	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.0360	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		103	2.38	10.0	mg/L			CH6	08/26/22	1530	2309029	8
Titration and Ion Analysis												

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Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRGWA-23S
Sample ID: 590845001
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		30.4	1.45	4.00	mg/L			HH2	09/04/22	1346	2309339	9
Bicarbonate alkalinity (CaCO3)		30.4	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PC1	08/26/22	0900	2308382
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	08/25/22	1147	2308553

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRGWC-47
Sample ID: 590845002
Matrix: WG
Collect Date: 23-AUG-22 15:20
Receive Date: 24-AUG-22
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		5.61			SU			EOS1	08/23/22	1520	2308297	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		4.49	0.0670	0.200	mg/L		1	JLD1	08/25/22	1757	2308691	2
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate		1410	26.6	80.0	mg/L		200	JLD1	08/26/22	0225	2308691	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/26/22	1150	2308555	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Arsenic	J	0.00228	0.00200	0.00500	mg/L	1.00	1	BAJ	09/03/22	0017	2308385	5
Barium		0.0285	0.000670	0.00400	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron		0.101	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0474	0.00300	0.0100	mg/L	1.00	1					
Potassium		11.8	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		42.5	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/03/22	1452	2308385	6
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	BAJ	09/03/22	1230	2308385	7
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Manganese		0.0103	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000296	0.000200	0.00100	mg/L	1.00	1					
Boron		0.547	0.0520	0.150	mg/L	1.00	10	BAJ	09/03/22	1204	2308385	8
Calcium		323	0.800	2.00	mg/L	1.00	10					
Magnesium		125	0.100	0.300	mg/L	1.00	10					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		2060	2.38	10.0	mg/L			CH6	08/26/22	1530	2309029	9
Titration and Ion Analysis												

GEL LABORATORIES LLC
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Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRGWC-47 Project: GPCC00101
Sample ID: 590845002 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		28.4	1.45	4.00	mg/L			HH2	09/04/22	1347	2309339	10
Bicarbonate alkalinity (CaCO3)		28.4	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PC1	08/26/22	0900	2308382
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	08/25/22	1147	2308553

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SM 2540C	
10	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: EB-05
Sample ID: 590845003
Matrix: WQ
Collect Date: 23-AUG-22 14:55
Receive Date: 24-AUG-22
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	J	0.188	0.0670	0.200	mg/L		1	JLD1	08/25/22	1827	2308691	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/26/22	1152	2308555	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1	BAJ	09/03/22	0021	2308385	3
Barium	J	0.000796	0.000670	0.00400	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		0.703	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/03/22	1453	2308385	4
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	BAJ	09/03/22	1122	2308385	5
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		0.313	0.0800	0.200	mg/L	1.00	1					
Magnesium	J	0.0152	0.0100	0.0300	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			CH6	08/26/22	1530	2309029	6
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		20.6	1.45	4.00	mg/L			HH2	09/04/22	1348	2309339	7
Bicarbonate alkalinity (CaCO3)		20.6	1.45	4.00	mg/L							

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Certificate of Analysis

Report Date: October 3, 2022

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: EB-05 Project: GPCC00101
Sample ID: 590845003 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PC1	08/26/22	0900	2308382
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	08/25/22	1147	2308553

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

QC Summary

Report Date: October 3, 2022

Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia

Contact: **Joju Abraham**

Workorder: **591355**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography										
Batch 2310523										
QC1205179260 591351001 DUP										
Chloride		5.00		4.97	mg/L	0.702		(0%-20%)	HXC1	08/30/22 20:15
Fluoride		0.274		0.272	mg/L	0.88 ^		(+/-0.100)		
Sulfate		157		158	mg/L	0.766		(0%-20%)		08/30/22 21:44
QC1205179259 LCS										
Chloride	5.00			4.72	mg/L		94.4	(90%-110%)		08/30/22 19:45
Fluoride	2.50			2.51	mg/L		100	(90%-110%)		
Sulfate	10.0			9.64	mg/L		96.4	(90%-110%)		
QC1205179258 MB										
Chloride			U	ND	mg/L					08/30/22 19:15
Fluoride			U	ND	mg/L					
Sulfate			U	ND	mg/L					
QC1205179261 591351001 PS										
Chloride	5.00	5.00		10.4	mg/L		107	(90%-110%)		08/30/22 20:45
Fluoride	2.50	0.274		2.66	mg/L		95.4	(90%-110%)		
Sulfate	10.0	7.86		18.2	mg/L		103	(90%-110%)		08/30/22 22:14

QC Summary

Workorder: **591355**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography										
Batch 2310658										
QC1205179525 591355005 DUP										
Chloride		5.84		5.85	mg/L	0.157		(0%-20%)	JLD1	08/31/22 00:23
Fluoride		0.103		0.101	mg/L	2.06 ^		(+/-0.100)		
Sulfate		298		305	mg/L	2.44		(0%-20%)		08/31/22 19:09
QC1205179524 LCS										
Chloride	5.00			5.00	mg/L		100	(90%-110%)		08/30/22 23:21
Fluoride	2.50			2.41	mg/L		96.6	(90%-110%)		
Sulfate	10.0			10.4	mg/L		104	(90%-110%)		
QC1205179523 MB										
Chloride			U	ND	mg/L					08/30/22 22:50
Fluoride			U	ND	mg/L					
Sulfate			U	ND	mg/L					
QC1205179526 591355005 PS										
Chloride	5.00	5.84		12.4	mg/L		131*	(90%-110%)		08/31/22 00:53
Fluoride	2.50	0.103		2.75	mg/L		106	(90%-110%)		
Sulfate	10.0	2.98		12.9	mg/L		99.2	(90%-110%)		08/31/22 19:40
Batch 2310688										
QC1205179579 591355015 DUP										
Chloride		4.20		4.21	mg/L	0.252		(0%-20%)	HXC1	08/31/22 19:49
Fluoride		0.121		0.116	mg/L	3.46 ^		(+/-0.100)		

QC Summary

Workorder: **591355**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography										
Batch 2310688										
Sulfate		0.880		0.815	mg/L	7.69 ^		(+/-0.400)	HXC1	08/31/22 19:49
QC1205179581 591355026 DUP										
Chloride		6.27		6.28	mg/L	0.231		(0%-20%)		08/31/22 20:49
Fluoride		0.157		0.155	mg/L	1.41 ^		(+/-0.100)		
Sulfate		142		142	mg/L	0.0739		(0%-20%)		09/01/22 02:48
QC1205179578 LCS										
Chloride	5.00			4.71	mg/L		94.3	(90%-110%)		08/31/22 19:20
Fluoride	2.50			2.53	mg/L		101	(90%-110%)		
Sulfate	10.0			9.76	mg/L		97.6	(90%-110%)		
QC1205179577 MB										
Chloride			U	ND	mg/L					08/31/22 18:50
Fluoride			U	ND	mg/L					
Sulfate			U	ND	mg/L					
QC1205179580 591355015 PS										
Chloride	5.00	4.20		9.73	mg/L		111*	(90%-110%)		08/31/22 20:19
Fluoride	2.50	0.121		2.64	mg/L		101	(90%-110%)		
Sulfate	10.0	0.880		10.7	mg/L		97.8	(90%-110%)		
QC1205179582 591355026 PS										
Chloride	5.00	6.27		12.1	mg/L		117*	(90%-110%)		08/31/22 21:19

QC Summary

Workorder: **591355**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography										
Batch 2310688										
Fluoride	2.50	0.157		2.69	mg/L		101	(90%-110%)	HXC1	08/31/22 21:19
Sulfate	10.0	14.2		24.9	mg/L		107	(90%-110%)		09/01/22 03:17
Metals Analysis - ICPMS										
Batch 2310153										
QC1205178580 LCS										
Antimony	0.0500			0.0540	mg/L		108	(80%-120%)	BAJ	09/07/22 18:17
Arsenic	0.0500			0.0568	mg/L		114	(80%-120%)		
Barium	0.0500			0.0523	mg/L		105	(80%-120%)		
Beryllium	0.0500			0.0563	mg/L		113	(80%-120%)		09/07/22 01:53
Boron	0.100			0.108	mg/L		108	(80%-120%)		09/07/22 18:17
Cadmium	0.0500			0.0568	mg/L		114	(80%-120%)		
Calcium	2.00			2.13	mg/L		106	(80%-120%)		
Chromium	0.0500			0.0512	mg/L		102	(80%-120%)		
Cobalt	0.0500			0.0513	mg/L		103	(80%-120%)		
Iron	2.00			2.04	mg/L		102	(80%-120%)		
Lead	0.0500			0.0528	mg/L		106	(80%-120%)		
Lithium	0.0500			0.0505	mg/L		101	(80%-120%)		

QC Summary

Workorder: **591355**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2310153										
Magnesium	2.00			2.14	mg/L		107	(80%-120%)	BAJ	09/07/22 18:17
Manganese	0.0500			0.0508	mg/L		102	(80%-120%)		
Molybdenum	0.0500			0.0534	mg/L		107	(80%-120%)		
Potassium	2.00			2.10	mg/L		105	(80%-120%)		
Selenium	0.0500			0.0499	mg/L		99.8	(80%-120%)		09/07/22 01:53
Sodium	2.00			2.08	mg/L		104	(80%-120%)		09/07/22 18:17
Thallium	0.0500			0.0505	mg/L		101	(80%-120%)		
QC1205178579 MB										
Antimony			U	ND	mg/L					09/07/22 18:14
Arsenic			U	ND	mg/L					
Barium			U	ND	mg/L					
Beryllium			U	ND	mg/L					09/07/22 01:50
Boron			U	ND	mg/L					09/07/22 18:14
Cadmium			U	ND	mg/L					
Calcium			U	ND	mg/L					
Chromium			U	ND	mg/L					

QC Summary

Workorder: **591355**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2310153											
Cobalt				U	ND	mg/L				BAJ	09/07/22 18:14
Iron				U	ND	mg/L					
Lead				U	ND	mg/L					
Lithium				U	ND	mg/L					
Magnesium				U	ND	mg/L					
Manganese				U	ND	mg/L					
Molybdenum				U	ND	mg/L					
Potassium				U	ND	mg/L					
Selenium				U	ND	mg/L					09/07/22 01:50
Sodium				U	ND	mg/L					09/07/22 18:14
Thallium				U	ND	mg/L					
QC1205178581 591351001 MS											
Antimony	0.0500	U	ND		0.0519	mg/L		103	(75%-125%)		09/07/22 18:23
Arsenic	0.0500	U	ND		0.0532	mg/L		104	(75%-125%)		
Barium	0.0500		0.0512		0.104	mg/L		106	(75%-125%)		
Beryllium	0.0500	U	ND		0.0560	mg/L		112	(75%-125%)		09/07/22 02:00

QC Summary

Workorder: **591355**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2310153											
Boron	0.100		0.0273		0.134	mg/L		107	(75%-125%)	BAJ	09/07/22 18:23
Cadmium	0.0500	U	ND		0.0522	mg/L		104	(75%-125%)		
Calcium	2.00		43.6		47.5	mg/L		N/A	(75%-125%)		
Chromium	0.0500		0.0127		0.0655	mg/L		106	(75%-125%)		
Cobalt	0.0500	U	ND		0.0502	mg/L		100	(75%-125%)		
Iron	2.00	U	ND		2.08	mg/L		103	(75%-125%)		
Lead	0.0500	U	ND		0.0511	mg/L		102	(75%-125%)		
Lithium	0.0500	U	ND		0.0528	mg/L		103	(75%-125%)		
Magnesium	2.00		25.7		28.9	mg/L		N/A	(75%-125%)		
Manganese	0.0500	U	ND		0.0507	mg/L		100	(75%-125%)		
Molybdenum	0.0500	U	ND		0.0559	mg/L		112	(75%-125%)		
Potassium	2.00		1.29		3.38	mg/L		105	(75%-125%)		
Selenium	0.0500	J	0.00208		0.0515	mg/L		98.9	(75%-125%)		09/07/22 02:00
Sodium	2.00		24.6		27.8	mg/L		N/A	(75%-125%)		09/07/22 18:23
Thallium	0.0500	U	ND		0.0502	mg/L		100	(75%-125%)		

QC Summary

Workorder: **591355**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2310153											
QC1205178582 591351001 MSD											
Antimony	0.0500	U	ND		0.0533	mg/L	2.66	106	(0%-20%)	BAJ	09/07/22 18:26
Arsenic	0.0500	U	ND		0.0555	mg/L	4.3	109	(0%-20%)		
Barium	0.0500		0.0512		0.105	mg/L	0.178	107	(0%-20%)		
Beryllium	0.0500	U	ND		0.0546	mg/L	2.52	109	(0%-20%)		09/07/22 02:04
Boron	0.100		0.0273		0.134	mg/L	0.174	107	(0%-20%)		09/07/22 18:26
Cadmium	0.0500	U	ND		0.0544	mg/L	4.28	109	(0%-20%)		
Calcium	2.00		43.6		45.7	mg/L	3.85	N/A	(0%-20%)		
Chromium	0.0500		0.0127		0.0636	mg/L	2.93	102	(0%-20%)		
Cobalt	0.0500	U	ND		0.0494	mg/L	1.65	98.7	(0%-20%)		
Iron	2.00	U	ND		2.06	mg/L	1.04	102	(0%-20%)		
Lead	0.0500	U	ND		0.0512	mg/L	0.258	102	(0%-20%)		
Lithium	0.0500	U	ND		0.0515	mg/L	2.49	101	(0%-20%)		
Magnesium	2.00		25.7		27.9	mg/L	3.37	N/A	(0%-20%)		
Manganese	0.0500	U	ND		0.0506	mg/L	0.0711	100	(0%-20%)		
Molybdenum	0.0500	U	ND		0.0558	mg/L	0.308	111	(0%-20%)		

QC Summary

Workorder: **591355**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2310153											
Potassium	2.00		1.29		3.38	mg/L	0.0861	105	(0%-20%)	BAJ	09/07/22 18:26
Selenium	0.0500	J	0.00208		0.0521	mg/L	1.07	100	(0%-20%)		09/07/22 02:04
Sodium	2.00		24.6		27.1	mg/L	2.51	N/A	(0%-20%)		09/07/22 18:26
Thallium	0.0500	U	ND		0.0503	mg/L	0.279	100	(0%-20%)		
QC1205178583 591351001 SDILT											
Antimony		U	ND	U	ND	ug/L	N/A		(0%-20%)		09/07/22 18:54
Arsenic		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Barium			51.2		9.71	ug/L	5.13		(0%-20%)		
Beryllium		U	ND	U	ND	ug/L	N/A		(0%-20%)		09/07/22 02:11
Boron			27.3	J	5.37	ug/L	1.81		(0%-20%)		09/07/22 18:54
Cadmium		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Calcium			43600		8480	ug/L	2.85		(0%-20%)		
Chromium			12.7	U	ND	ug/L	N/A		(0%-20%)		
Cobalt		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Iron		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Lead		U	ND	U	ND	ug/L	N/A		(0%-20%)		

QC Summary

Workorder: **591355**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2310153										
Lithium	U	ND	U	ND	ug/L	N/A		(0%-20%)	BAJ	09/07/22 18:54
Magnesium		25700		4930	ug/L	4.31		(0%-20%)		
Manganese	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Molybdenum	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Potassium		1290	J	250	ug/L	2.87		(0%-20%)		
Selenium	J	2.08	U	ND	ug/L	N/A		(0%-20%)		09/07/22 02:11
Sodium		24600		4790	ug/L	2.6		(0%-20%)		09/07/22 18:54
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Batch 2310155										
QC1205178585 LCS										
Antimony	0.0500			0.0467	mg/L		93.4	(80%-120%)	PRB	09/09/22 20:52
Arsenic	0.0500			0.0462	mg/L		92.3	(80%-120%)		
Barium	0.0500			0.0489	mg/L		97.8	(80%-120%)		
Beryllium	0.0500			0.0518	mg/L		104	(80%-120%)		09/10/22 10:48
Boron	0.100			0.103	mg/L		103	(80%-120%)		
Cadmium	0.0500			0.0482	mg/L		96.5	(80%-120%)		09/09/22 20:52
Calcium	2.00			2.00	mg/L		99.9	(80%-120%)		

QC Summary

Workorder: **591355**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2310155										
Chromium	0.0500			0.0474	mg/L		94.7	(80%-120%)	PRB	09/09/22 20:52
Cobalt	0.0500			0.0462	mg/L		92.4	(80%-120%)		
Iron	2.00			1.84	mg/L		92.2	(80%-120%)		
Lead	0.0500			0.0485	mg/L		97	(80%-120%)		
Lithium	0.0500			0.0478	mg/L		95.7	(80%-120%)		
Magnesium	2.00			1.94	mg/L		97	(80%-120%)		
Manganese	0.0500			0.0475	mg/L		95	(80%-120%)		09/10/22 10:48
Molybdenum	0.0500			0.0480	mg/L		95.9	(80%-120%)		09/09/22 20:52
Potassium	2.00			1.90	mg/L		95.2	(80%-120%)		
Selenium	0.0500			0.0473	mg/L		94.6	(80%-120%)		
Sodium	2.00			1.89	mg/L		94.4	(80%-120%)		
Thallium	0.0500			0.0469	mg/L		93.8	(80%-120%)		
QC1205178584 MB										
Antimony			U	ND	mg/L					09/09/22 20:48
Arsenic			U	ND	mg/L					
Barium			U	ND	mg/L					

QC Summary

Workorder: **591355**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2310155										
Beryllium			U	ND	mg/L				PRB	09/10/22 10:46
Boron			U	ND	mg/L					
Cadmium			U	ND	mg/L					09/09/22 20:48
Calcium			U	ND	mg/L					
Chromium			U	ND	mg/L					
Cobalt			U	ND	mg/L					
Iron			U	ND	mg/L					
Lead			U	ND	mg/L					
Lithium			U	ND	mg/L					
Magnesium			U	ND	mg/L					
Manganese			U	ND	mg/L					09/10/22 10:46
Molybdenum			U	ND	mg/L					09/09/22 20:48
Potassium			U	ND	mg/L					
Selenium			U	ND	mg/L					
Sodium			U	ND	mg/L					

QC Summary

Workorder: **591355**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2310155											
Thallium				U	ND	mg/L				PRB	09/09/22 20:48
QC1205178586 591355012 MS											
Antimony	0.0500	U	ND		0.0503	mg/L		100	(75%-125%)		09/09/22 20:59
Arsenic	0.0500	J	0.00308		0.0527	mg/L		99.2	(75%-125%)		
Barium	0.0500		0.0584		0.109	mg/L		101	(75%-125%)		
Beryllium	0.0500	U	ND		0.0530	mg/L		106	(75%-125%)		09/10/22 10:52
Boron	0.100		0.0360		0.139	mg/L		103	(75%-125%)		
Cadmium	0.0500	U	ND		0.0508	mg/L		102	(75%-125%)		09/09/22 20:59
Calcium	2.00		118		122	mg/L		N/A	(75%-125%)		09/10/22 07:23
Chromium	0.0500	U	ND		0.0486	mg/L		95.7	(75%-125%)		09/09/22 20:59
Cobalt	0.0500	J	0.000306		0.0476	mg/L		94.5	(75%-125%)		
Iron	2.00		2.89		4.84	mg/L		97.5	(75%-125%)		
Lead	0.0500	U	ND		0.0477	mg/L		95.2	(75%-125%)		
Lithium	0.0500	J	0.00420		0.0536	mg/L		98.8	(75%-125%)		
Magnesium	2.00		28.1		29.9	mg/L		N/A	(75%-125%)		
Manganese	0.0500		1.11		1.23	mg/L		N/A	(75%-125%)		09/10/22 07:23

QC Summary

Workorder: **591355**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2310155											
Molybdenum	0.0500		0.00171		0.0548	mg/L		106	(75%-125%)	PRB	09/09/22 20:59
Potassium	2.00		9.82		11.9	mg/L		N/A	(75%-125%)		
Selenium	0.0500	U	ND		0.0488	mg/L		96.9	(75%-125%)		
Sodium	2.00		39.8		41.6	mg/L		N/A	(75%-125%)		
Thallium	0.0500	U	ND		0.0475	mg/L		94.8	(75%-125%)		
QC1205178587 591355012 MSD											
Antimony	0.0500	U	ND		0.0497	mg/L	1.19	99	(0%-20%)		09/09/22 21:03
Arsenic	0.0500	J	0.00308		0.0521	mg/L	1.05	98.1	(0%-20%)		
Barium	0.0500		0.0584		0.110	mg/L	1.1	104	(0%-20%)		
Beryllium	0.0500	U	ND		0.0526	mg/L	0.769	105	(0%-20%)		09/10/22 10:54
Boron	0.100		0.0360		0.142	mg/L	2.3	106	(0%-20%)		
Cadmium	0.0500	U	ND		0.0502	mg/L	1.27	100	(0%-20%)		09/09/22 21:03
Calcium	2.00		118		122	mg/L	0.00835	N/A	(0%-20%)		09/10/22 07:27
Chromium	0.0500	U	ND		0.0485	mg/L	0.0721	95.6	(0%-20%)		09/09/22 21:03
Cobalt	0.0500	J	0.000306		0.0486	mg/L	2.08	96.5	(0%-20%)		
Iron	2.00		2.89		4.88	mg/L	0.836	99.5	(0%-20%)		

QC Summary

Workorder: **591355**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2310155											
Lead	0.0500	U	ND		0.0486	mg/L	1.79	97	(0%-20%)	PRB	09/09/22 21:03
Lithium	0.0500	J	0.00420		0.0539	mg/L	0.593	99.5	(0%-20%)		
Magnesium	2.00		28.1		29.3	mg/L	2.16	N/A	(0%-20%)		
Manganese	0.0500		1.11		1.20	mg/L	2.24	N/A	(0%-20%)		09/10/22 07:27
Molybdenum	0.0500		0.00171		0.0574	mg/L	4.63	111	(0%-20%)		09/09/22 21:03
Potassium	2.00		9.82		11.8	mg/L	0.219	N/A	(0%-20%)		
Selenium	0.0500	U	ND		0.0480	mg/L	1.7	95.3	(0%-20%)		
Sodium	2.00		39.8		41.0	mg/L	1.38	N/A	(0%-20%)		
Thallium	0.0500	U	ND		0.0483	mg/L	1.86	96.6	(0%-20%)		
QC1205178588 591355012 SDILT											
Antimony		U	ND	U	ND	ug/L	N/A		(0%-20%)		09/09/22 21:10
Arsenic		J	3.08	U	ND	ug/L	N/A		(0%-20%)		
Barium			58.4		11.4	ug/L	2.6		(0%-20%)		
Beryllium		U	ND	U	ND	ug/L	N/A		(0%-20%)		09/10/22 10:58
Boron			36.0	J	8.09	ug/L	12.5		(0%-20%)		
Cadmium		U	ND	U	ND	ug/L	N/A		(0%-20%)		09/09/22 21:10

QC Summary

Workorder: **591355**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2310155										
Calcium		11800		2240	ug/L	4.96		(0%-20%)	PRB	09/10/22 07:30
Chromium	U	ND	U	ND	ug/L	N/A		(0%-20%)		09/09/22 21:10
Cobalt	J	0.306	U	ND	ug/L	N/A		(0%-20%)		
Iron		2890		586	ug/L	1.52		(0%-20%)		
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Lithium	J	4.20	U	ND	ug/L	N/A		(0%-20%)		
Magnesium		28100		5720	ug/L	1.69		(0%-20%)		
Manganese		111		19.8	ug/L	10.8		(0%-20%)		09/10/22 07:30
Molybdenum		1.71	J	0.431	ug/L	26.1		(0%-20%)		09/09/22 21:10
Potassium		9820		1880	ug/L	4.48		(0%-20%)		
Selenium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Sodium		39800		8040	ug/L	.915		(0%-20%)		
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Metals Analysis-Mercury										
Batch 2310246										
QC1205178778 591355002 DUP										
Mercury	U	ND	U	ND	mg/L	N/A			JP2	08/31/22 10:03

QC Summary

Workorder: **591355**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis-Mercury										
Batch 2310246										
QC1205178777 LCS										
Mercury	0.00200			0.00196	mg/L		98.2	(80%-120%)	JP2	08/31/22 09:58
QC1205178776 MB										
Mercury			U	ND	mg/L					08/31/22 09:56
QC1205178779 591355002 MS										
Mercury	0.00200	U	ND	0.00116	mg/L		57.7*	(75%-125%)		08/31/22 10:04
QC1205178781 591355002 PS										
Mercury	2.00	U	ND	1.10	ug/L		54.6*	(80%-120%)		08/31/22 10:11
QC1205178780 591355002 SDILT										
Mercury		U	ND	U ND	ug/L	N/A		(0%-10%)		08/31/22 10:06
Batch 2310248										
QC1205178784 590142001 DUP										
Mercury		U	ND	U ND	mg/L	N/A			JP2	08/31/22 10:55
QC1205178783 LCS										
Mercury	0.00200			0.00200	mg/L		99.9	(80%-120%)		08/31/22 10:52
QC1205178782 MB										
Mercury			U	ND	mg/L					08/31/22 10:47
QC1205178785 590142001 MS										
Mercury	0.00200	U	ND	0.00195	mg/L		96.6	(75%-125%)		08/31/22 10:57
QC1205178786 590142001 SDILT										
Mercury		U	ND	U ND	ug/L	N/A		(0%-10%)		08/31/22 10:59

QC Summary

Workorder: **591355**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Solids Analysis										
Batch 2310249										
QC1205178791 591355007 DUP										
Total Dissolved Solids		1990		2040	mg/L	2.54		(0%-5%)	CH6	08/30/22 14:49
QC1205178789 LCS										
Total Dissolved Solids	300			302	mg/L		101	(95%-105%)		08/30/22 14:49
QC1205178788 MB										
Total Dissolved Solids			U	ND	mg/L					08/30/22 14:49
Batch 2310760										
QC1205179716 591355024 DUP										
Total Dissolved Solids		437		437	mg/L	0		(0%-5%)	CH6	08/31/22 14:39
QC1205179715 LCS										
Total Dissolved Solids	300			300	mg/L		100	(95%-105%)		08/31/22 14:39
QC1205179714 MB										
Total Dissolved Solids			U	ND	mg/L					08/31/22 14:39
Titration and Ion Analysis										
Batch 2310459										
QC1205179134 591355012 DUP										
Alkalinity, Total as CaCO3		129		128	mg/L	0.311		(0%-20%)	HH2	09/07/22 13:57
Bicarbonate alkalinity (CaCO3)		129		128	mg/L	0.311		(0%-20%)		
Carbonate alkalinity (CaCO3)	U	ND	U	ND	mg/L	N/A				
QC1205179131 LCS										
Alkalinity, Total as CaCO3	100			103	mg/L		103	(90%-110%)		09/07/22 13:17
QC1205179135 591355012 MS										
Alkalinity, Total as CaCO3	100	129		228	mg/L		99	(80%-120%)		09/07/22 14:00

QC Summary

Workorder: **591355**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Titration and Ion Analysis										
Batch 2310460										
QC1205179137 591355008 DUP										
Alkalinity, Total as CaCO3		42.4		42.0	mg/L	0.948		(0%-20%)	HH2	09/07/22 17:47
Bicarbonate alkalinity (CaCO3)		42.4		42.0	mg/L	0.948		(0%-20%)		
Carbonate alkalinity (CaCO3)	U	ND	U	ND	mg/L	N/A				
QC1205179139 591355026 DUP										
Alkalinity, Total as CaCO3		57.2		57.6	mg/L	0.697		(0%-20%)		09/07/22 18:09
Bicarbonate alkalinity (CaCO3)		57.2		57.6	mg/L	0.697		(0%-20%)		
Carbonate alkalinity (CaCO3)	U	ND	U	ND	mg/L	N/A				
QC1205179136 LCS										
Alkalinity, Total as CaCO3	100			103	mg/L		103	(90%-110%)		09/07/22 17:45
QC1205179138 591355008 MS										
Alkalinity, Total as CaCO3	100	42.4		146	mg/L		104	(80%-120%)		09/07/22 17:49
QC1205179140 591355026 MS										
Alkalinity, Total as CaCO3	100	57.2		156	mg/L		99	(80%-120%)		09/07/22 18:10

Notes:

The Qualifiers in this report are defined as follows:

- < Result is less than value reported
- > Result is greater than value reported
- B The target analyte was detected in the associated blank.
- E %difference of sample and SD is >10%. Sample concentration must meet flagging criteria
- E General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
- FB Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
- H Analytical holding time was exceeded
- J See case narrative for an explanation

QC Summary

Workorder: **591355**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

J	Value is estimated
N	Metals--The Matrix spike sample recovery is not within specified control limits
N/A	RPD or %Recovery limits do not apply.
N1	See case narrative
ND	Analyte concentration is not detected above the detection limit
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
R	Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.
R	Sample results are rejected
U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
Z	Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
d	5-day BOD--The 2:1 depletion requirement was not met for this sample
e	5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes
h	Preparation or preservation holding time was exceeded

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where the duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

QC Summary

Report Date: October 3, 2022

Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia

Contact: **Joju Abraham**

Workorder: **590855**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography										
Batch 2308691										
QC1205175345 590838001 DUP										
Chloride		2.18		2.13	mg/L	2.51		(0%-20%)	JLD1	08/25/22 13:28
Fluoride	U	ND	U	ND	mg/L	N/A				
Sulfate		0.452		0.418	mg/L	7.86 ^		(+/-0.400)		
QC1205175347 590857001 DUP										
Chloride		30.3		30.4	mg/L	0.158 ^		(+/-8.00)		08/26/22 03:54
Fluoride		0.187		0.160	mg/L	15.7 ^		(+/-0.100)		08/25/22 21:26
Sulfate		385		387	mg/L	0.559		(0%-20%)		08/26/22 03:54
QC1205175344 LCS										
Chloride	5.00			4.72	mg/L		94.3	(90%-110%)		08/25/22 12:28
Fluoride	2.50			2.30	mg/L		91.9	(90%-110%)		
Sulfate	10.0			9.76	mg/L		97.6	(90%-110%)		
QC1205175343 MB										
Chloride			U	ND	mg/L					08/25/22 11:59
Fluoride			U	ND	mg/L					
Sulfate			U	ND	mg/L					
QC1205175346 590838001 PS										
Chloride	5.00	2.18		7.68	mg/L		110	(90%-110%)		08/25/22 13:58

QC Summary

Workorder: **590855**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography											
Batch 2308691											
Fluoride	2.50	U	ND		2.65	mg/L		106	(90%-110%)	JLD1	08/25/22 13:58
Sulfate	10.0		0.452		11.6	mg/L		111*	(90%-110%)		
QC1205175348 590857001 PS											
Chloride	5.00		0.759		5.74	mg/L		99.7	(90%-110%)		08/26/22 04:24
Fluoride	2.50		0.187		2.68	mg/L		99.9	(90%-110%)		08/25/22 21:56
Sulfate	10.0		9.63		20.5	mg/L		109	(90%-110%)		08/26/22 04:24
Metals Analysis - ICPMS											
Batch 2308385											
QC1205174766 LCS											
Antimony	0.0500				0.0497	mg/L		99.4	(80%-120%)	BAJ	09/03/22 14:29
Arsenic	0.0500				0.0512	mg/L		102	(80%-120%)		09/02/22 23:30
Barium	0.0500				0.0504	mg/L		101	(80%-120%)		
Beryllium	0.0500				0.0588	mg/L		118	(80%-120%)		09/03/22 10:40
Boron	0.100				0.114	mg/L		114	(80%-120%)		
Cadmium	0.0500				0.0519	mg/L		104	(80%-120%)		
Calcium	2.00				2.18	mg/L		109	(80%-120%)		
Chromium	0.0500				0.0510	mg/L		102	(80%-120%)		09/02/22 23:30
Cobalt	0.0500				0.0497	mg/L		99.4	(80%-120%)		

QC Summary

Workorder: **590855**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2308385										
Iron	2.00			2.10	mg/L		105	(80%-120%)	BAJ	09/02/22 23:30
Lead	0.0500			0.0527	mg/L		105	(80%-120%)		
Lithium	0.0500			0.0518	mg/L		104	(80%-120%)		
Magnesium	2.00			2.17	mg/L		109	(80%-120%)		09/03/22 10:40
Manganese	0.0500			0.0512	mg/L		102	(80%-120%)		
Molybdenum	0.0500			0.0521	mg/L		104	(80%-120%)		
Potassium	2.00			1.99	mg/L		99.7	(80%-120%)		09/02/22 23:30
Selenium	0.0500			0.0494	mg/L		98.9	(80%-120%)		
Sodium	2.00			2.22	mg/L		111	(80%-120%)		
Thallium	0.0500			0.0460	mg/L		92.1	(80%-120%)		
QC1205174765 MB										
Antimony			U	ND	mg/L					09/03/22 14:27
Arsenic			U	ND	mg/L					09/02/22 23:27
Barium			U	ND	mg/L					
Beryllium			U	ND	mg/L					09/03/22 10:37
Boron			U	ND	mg/L					

QC Summary

Workorder: **590855**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2308385										
Cadmium			U	ND	mg/L				BAJ	09/03/22 10:37
Calcium			U	ND	mg/L					
Chromium			U	ND	mg/L					09/02/22 23:27
Cobalt			U	ND	mg/L					
Iron			U	ND	mg/L					
Lead			U	ND	mg/L					
Lithium			U	ND	mg/L					
Magnesium			U	ND	mg/L					09/03/22 10:37
Manganese			U	ND	mg/L					
Molybdenum			U	ND	mg/L					
Potassium			U	ND	mg/L					09/02/22 23:27
Selenium			U	ND	mg/L					
Sodium			U	ND	mg/L					
Thallium			U	ND	mg/L					
QC1205174767 590838001 MS										
Antimony	0.0500	U	ND	0.0501	mg/L		99.4	(75%-125%)		09/03/22 14:32

QC Summary

Workorder: **590855**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2308385											
Arsenic	0.0500	U	ND		0.0500	mg/L		98	(75%-125%)	BAJ	09/02/22 23:37
Barium	0.0500		0.0120		0.0615	mg/L		99.1	(75%-125%)		
Beryllium	0.0500	U	ND		0.0613	mg/L		123	(75%-125%)		09/03/22 10:46
Boron	0.100	J	0.00532		0.120	mg/L		115	(75%-125%)		
Cadmium	0.0500	U	ND		0.0529	mg/L		106	(75%-125%)		
Calcium	2.00		4.65		7.04	mg/L		120	(75%-125%)		
Chromium	0.0500	J	0.00908		0.0603	mg/L		102	(75%-125%)		09/02/22 23:37
Cobalt	0.0500	J	0.000844		0.0514	mg/L		101	(75%-125%)		
Iron	2.00	J	0.0763		2.13	mg/L		103	(75%-125%)		
Lead	0.0500	U	ND		0.0508	mg/L		101	(75%-125%)		
Lithium	0.0500	U	ND		0.0545	mg/L		108	(75%-125%)		
Magnesium	2.00		4.86		7.40	mg/L		127*	(75%-125%)		09/03/22 10:46
Manganese	0.0500		0.0391		0.0930	mg/L		108	(75%-125%)		
Molybdenum	0.0500	U	ND		0.0538	mg/L		108	(75%-125%)		
Potassium	2.00		0.439		2.44	mg/L		100	(75%-125%)		09/02/22 23:37

QC Summary

Workorder: **590855**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2308385											
Selenium	0.0500	U	ND		0.0496	mg/L		99.2	(75%-125%)	BAJ	09/02/22 23:37
Sodium	2.00		3.36		5.52	mg/L		108	(75%-125%)		
Thallium	0.0500	U	ND		0.0463	mg/L		92.5	(75%-125%)		
QC1205174768 590838001 MSD											
Antimony	0.0500	U	ND		0.0492	mg/L	1.91	97.5	(0%-20%)		09/03/22 14:34
Arsenic	0.0500	U	ND		0.0495	mg/L	1.13	96.9	(0%-20%)		09/02/22 23:41
Barium	0.0500		0.0120		0.0611	mg/L	0.618	98.3	(0%-20%)		
Beryllium	0.0500	U	ND		0.0604	mg/L	1.57	121	(0%-20%)		09/03/22 10:49
Boron	0.100	J	0.00532		0.119	mg/L	1.12	114	(0%-20%)		
Cadmium	0.0500	U	ND		0.0516	mg/L	2.52	103	(0%-20%)		
Calcium	2.00		4.65		6.88	mg/L	2.39	111	(0%-20%)		
Chromium	0.0500	J	0.00908		0.0589	mg/L	2.28	99.7	(0%-20%)		09/02/22 23:41
Cobalt	0.0500	J	0.000844		0.0503	mg/L	2.26	98.9	(0%-20%)		
Iron	2.00	J	0.0763		2.09	mg/L	1.79	101	(0%-20%)		
Lead	0.0500	U	ND		0.0506	mg/L	0.396	101	(0%-20%)		
Lithium	0.0500	U	ND		0.0534	mg/L	2.01	105	(0%-20%)		

QC Summary

Workorder: **590855**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2308385											
Magnesium	2.00		4.86		7.28	mg/L	1.68	121	(0%-20%)	BAJ	09/03/22 10:49
Manganese	0.0500		0.0391		0.0926	mg/L	0.447	107	(0%-20%)		
Molybdenum	0.0500	U	ND		0.0536	mg/L	0.447	107	(0%-20%)		
Potassium	2.00		0.439		2.38	mg/L	2.49	97.1	(0%-20%)		09/02/22 23:41
Selenium	0.0500	U	ND		0.0478	mg/L	3.8	95.5	(0%-20%)		
Sodium	2.00		3.36		5.45	mg/L	1.34	105	(0%-20%)		
Thallium	0.0500	U	ND		0.0449	mg/L	2.98	89.8	(0%-20%)		
QC1205182314 590838001 PS											
Magnesium	2000		4860		7000	ug/L		107	(75%-125%)		09/03/22 10:52
QC1205174769 590838001 SDILT											
Antimony		U	ND	U	ND	ug/L	N/A		(0%-20%)		09/03/22 14:37
Arsenic		U	ND	U	ND	ug/L	N/A		(0%-20%)		09/02/22 23:48
Barium			12.0	J	2.29	ug/L	4.59		(0%-20%)		
Beryllium		U	ND	U	ND	ug/L	N/A		(0%-20%)		09/03/22 11:04
Boron		J	5.32	U	ND	ug/L	N/A		(0%-20%)		
Cadmium		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Calcium			4650		892	ug/L	4.21		(0%-20%)		

QC Summary

Workorder: **590855**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2308385										
Chromium	J	9.08	U	ND	ug/L	N/A		(0%-20%)	BAJ	09/02/22 23:48
Cobalt	J	0.844	U	ND	ug/L	N/A		(0%-20%)		
Iron	J	76.3	U	ND	ug/L	N/A		(0%-20%)		
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Lithium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Magnesium		4860		866	ug/L	11		(0%-20%)		09/03/22 11:04
Manganese		39.1		7.50	ug/L	3.96		(0%-20%)		
Molybdenum	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Potassium		439	J	85.4	ug/L	2.83		(0%-20%)		09/02/22 23:48
Selenium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Sodium		3360		579	ug/L	13.8		(0%-20%)		
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Metals Analysis-Mercury										
Batch 2308549										
QC1205175103 590719007 DUP										
Mercury	U	ND	U	ND	mg/L	N/A			JP2	08/26/22 10:26
QC1205175102 LCS										
Mercury	0.00200			0.00212	mg/L		106	(80%-120%)		08/26/22 10:09

QC Summary

Workorder: **590855**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis-Mercury												
Batch 2308549												
QC1205175101 MB												
Mercury				U	ND	mg/L				JP2	08/26/22	10:07
QC1205175104 590719007 MS												
Mercury	0.00200	U	ND		0.00152	mg/L		73.9*	(75%-125%)		08/26/22	10:28
QC1205175106 590719007 PS												
Mercury	2.00	U	ND		1.51	ug/L		73.5*	(80%-120%)		08/26/22	10:31
QC1205175105 590719007 SDILT												
Mercury		U	ND	U	ND	ug/L	N/A		(0%-10%)		08/26/22	10:30
Solids Analysis												
Batch 2309029												
QC1205176100 590857001 DUP												
Total Dissolved Solids			614		616	mg/L	0.325		(0%-5%)	CH6	08/26/22	15:30
QC1205176099 LCS												
Total Dissolved Solids	300				300	mg/L		100	(95%-105%)		08/26/22	15:30
QC1205176098 MB												
Total Dissolved Solids				U	ND	mg/L					08/26/22	15:30
Titration and Ion Analysis												
Batch 2309339												
QC1205176799 590838001 DUP												
Alkalinity, Total as CaCO3			32.6		32.2	mg/L	1.23		(0%-20%)	HH2	09/04/22	13:40
Bicarbonate alkalinity (CaCO3)			32.6		32.2	mg/L	1.23		(0%-20%)			
Carbonate alkalinity (CaCO3)		U	ND	U	ND	mg/L	N/A					
QC1205176801 590857001 DUP												
Alkalinity, Total as CaCO3		J	3.40	J	3.60	mg/L	5.71 ^		(+/-4.00)		09/04/22	13:53

QC Summary

Workorder: **590855**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Titration and Ion Analysis												
Batch 2309339												
Bicarbonate alkalinity (CaCO3)		J	3.40	J	3.60	mg/L	5.71 ^		(+/-4.00)	HH2	09/04/22	13:53
Carbonate alkalinity (CaCO3)		U	ND	U	ND	mg/L	N/A					
QC1205176798 LCS												
Alkalinity, Total as CaCO3	100				104	mg/L		104	(90%-110%)		09/04/22	13:37
QC1205176800 590838001 MS												
Alkalinity, Total as CaCO3	100		32.6		136	mg/L		104	(80%-120%)		09/04/22	13:42
QC1205176802 590857001 MS												
Alkalinity, Total as CaCO3	100	J	3.40		107	mg/L		104	(80%-120%)		09/04/22	13:54

Notes:

The Qualifiers in this report are defined as follows:

<	Result is less than value reported
>	Result is greater than value reported
B	The target analyte was detected in the associated blank.
E	%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
E	General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
FB	Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
H	Analytical holding time was exceeded
J	See case narrative for an explanation
J	Value is estimated
N	Metals--The Matrix spike sample recovery is not within specified control limits
N/A	RPD or %Recovery limits do not apply.
N1	See case narrative
ND	Analyte concentration is not detected above the detection limit
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
R	Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.
R	Sample results are rejected
U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

QC Summary

Workorder: **590855**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

Y Other specific qualifiers were required to properly define the results. Consult case narrative.

Z Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.

d 5-day BOD--The 2:1 depletion requirement was not met for this sample

e 5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes

h Preparation or preservation holding time was exceeded

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where the duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

QC Summary

Report Date: October 3, 2022

Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia

Contact: **Joju Abraham**

Workorder: **590845**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography										
Batch 2308691										
QC1205175345 590838001 DUP										
Chloride		2.18		2.13	mg/L	2.51		(0%-20%)	JLD1	08/25/22 13:28
Fluoride	U	ND	U	ND	mg/L	N/A				
Sulfate		0.452		0.418	mg/L	7.86 ^		(+/-0.400)		
QC1205175347 590857001 DUP										
Chloride		30.3		30.4	mg/L	0.158 ^		(+/-8.00)		08/26/22 03:54
Fluoride		0.187		0.160	mg/L	15.7 ^		(+/-0.100)		08/25/22 21:26
Sulfate		385		387	mg/L	0.559		(0%-20%)		08/26/22 03:54
QC1205175344 LCS										
Chloride	5.00			4.72	mg/L		94.3	(90%-110%)		08/25/22 12:28
Fluoride	2.50			2.30	mg/L		91.9	(90%-110%)		
Sulfate	10.0			9.76	mg/L		97.6	(90%-110%)		
QC1205175343 MB										
Chloride			U	ND	mg/L					08/25/22 11:59
Fluoride			U	ND	mg/L					
Sulfate			U	ND	mg/L					
QC1205175346 590838001 PS										
Chloride	5.00	2.18		7.68	mg/L		110	(90%-110%)		08/25/22 13:58

QC Summary

Workorder: **590845**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography											
Batch 2308691											
Fluoride	2.50	U	ND		2.65	mg/L		106	(90%-110%)	JLD1	08/25/22 13:58
Sulfate	10.0		0.452		11.6	mg/L		111*	(90%-110%)		
QC1205175348 590857001 PS											
Chloride	5.00		0.759		5.74	mg/L		99.7	(90%-110%)		08/26/22 04:24
Fluoride	2.50		0.187		2.68	mg/L		99.9	(90%-110%)		08/25/22 21:56
Sulfate	10.0		9.63		20.5	mg/L		109	(90%-110%)		08/26/22 04:24
Metals Analysis - ICPMS											
Batch 2308385											
QC1205174766 LCS											
Antimony	0.0500				0.0497	mg/L		99.4	(80%-120%)	BAJ	09/03/22 14:29
Arsenic	0.0500				0.0512	mg/L		102	(80%-120%)		09/02/22 23:30
Barium	0.0500				0.0504	mg/L		101	(80%-120%)		
Beryllium	0.0500				0.0588	mg/L		118	(80%-120%)		09/03/22 10:40
Boron	0.100				0.114	mg/L		114	(80%-120%)		
Cadmium	0.0500				0.0519	mg/L		104	(80%-120%)		
Calcium	2.00				2.18	mg/L		109	(80%-120%)		
Chromium	0.0500				0.0510	mg/L		102	(80%-120%)		09/02/22 23:30
Cobalt	0.0500				0.0497	mg/L		99.4	(80%-120%)		

QC Summary

Workorder: **590845**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2308385										
Iron	2.00			2.10	mg/L		105	(80%-120%)	BAJ	09/02/22 23:30
Lead	0.0500			0.0527	mg/L		105	(80%-120%)		
Lithium	0.0500			0.0518	mg/L		104	(80%-120%)		
Magnesium	2.00			2.17	mg/L		109	(80%-120%)		09/03/22 10:40
Manganese	0.0500			0.0512	mg/L		102	(80%-120%)		
Molybdenum	0.0500			0.0521	mg/L		104	(80%-120%)		
Potassium	2.00			1.99	mg/L		99.7	(80%-120%)		09/02/22 23:30
Selenium	0.0500			0.0494	mg/L		98.9	(80%-120%)		
Sodium	2.00			2.22	mg/L		111	(80%-120%)		
Thallium	0.0500			0.0460	mg/L		92.1	(80%-120%)		
QC1205174765 MB										
Antimony			U	ND	mg/L					09/03/22 14:27
Arsenic			U	ND	mg/L					09/02/22 23:27
Barium			U	ND	mg/L					
Beryllium			U	ND	mg/L					09/03/22 10:37
Boron			U	ND	mg/L					

QC Summary

Workorder: **590845**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2308385										
Cadmium			U	ND	mg/L				BAJ	09/03/22 10:37
Calcium			U	ND	mg/L					
Chromium			U	ND	mg/L					09/02/22 23:27
Cobalt			U	ND	mg/L					
Iron			U	ND	mg/L					
Lead			U	ND	mg/L					
Lithium			U	ND	mg/L					
Magnesium			U	ND	mg/L					09/03/22 10:37
Manganese			U	ND	mg/L					
Molybdenum			U	ND	mg/L					
Potassium			U	ND	mg/L					09/02/22 23:27
Selenium			U	ND	mg/L					
Sodium			U	ND	mg/L					
Thallium			U	ND	mg/L					
QC1205174767 590838001 MS										
Antimony	0.0500	U	ND	0.0501	mg/L		99.4	(75%-125%)		09/03/22 14:32

QC Summary

Workorder: **590845**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2308385											
Arsenic	0.0500	U	ND		0.0500	mg/L		98	(75%-125%)	BAJ	09/02/22 23:37
Barium	0.0500		0.0120		0.0615	mg/L		99.1	(75%-125%)		
Beryllium	0.0500	U	ND		0.0613	mg/L		123	(75%-125%)		09/03/22 10:46
Boron	0.100	J	0.00532		0.120	mg/L		115	(75%-125%)		
Cadmium	0.0500	U	ND		0.0529	mg/L		106	(75%-125%)		
Calcium	2.00		4.65		7.04	mg/L		120	(75%-125%)		
Chromium	0.0500	J	0.00908		0.0603	mg/L		102	(75%-125%)		09/02/22 23:37
Cobalt	0.0500	J	0.000844		0.0514	mg/L		101	(75%-125%)		
Iron	2.00	J	0.0763		2.13	mg/L		103	(75%-125%)		
Lead	0.0500	U	ND		0.0508	mg/L		101	(75%-125%)		
Lithium	0.0500	U	ND		0.0545	mg/L		108	(75%-125%)		
Magnesium	2.00		4.86		7.40	mg/L		127*	(75%-125%)		09/03/22 10:46
Manganese	0.0500		0.0391		0.0930	mg/L		108	(75%-125%)		
Molybdenum	0.0500	U	ND		0.0538	mg/L		108	(75%-125%)		
Potassium	2.00		0.439		2.44	mg/L		100	(75%-125%)		09/02/22 23:37

QC Summary

Workorder: **590845**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2308385											
Selenium	0.0500	U	ND		0.0496	mg/L		99.2	(75%-125%)	BAJ	09/02/22 23:37
Sodium	2.00		3.36		5.52	mg/L		108	(75%-125%)		
Thallium	0.0500	U	ND		0.0463	mg/L		92.5	(75%-125%)		
QC1205174768 590838001 MSD											
Antimony	0.0500	U	ND		0.0492	mg/L	1.91	97.5	(0%-20%)		09/03/22 14:34
Arsenic	0.0500	U	ND		0.0495	mg/L	1.13	96.9	(0%-20%)		09/02/22 23:41
Barium	0.0500		0.0120		0.0611	mg/L	0.618	98.3	(0%-20%)		
Beryllium	0.0500	U	ND		0.0604	mg/L	1.57	121	(0%-20%)		09/03/22 10:49
Boron	0.100	J	0.00532		0.119	mg/L	1.12	114	(0%-20%)		
Cadmium	0.0500	U	ND		0.0516	mg/L	2.52	103	(0%-20%)		
Calcium	2.00		4.65		6.88	mg/L	2.39	111	(0%-20%)		
Chromium	0.0500	J	0.00908		0.0589	mg/L	2.28	99.7	(0%-20%)		09/02/22 23:41
Cobalt	0.0500	J	0.000844		0.0503	mg/L	2.26	98.9	(0%-20%)		
Iron	2.00	J	0.0763		2.09	mg/L	1.79	101	(0%-20%)		
Lead	0.0500	U	ND		0.0506	mg/L	0.396	101	(0%-20%)		
Lithium	0.0500	U	ND		0.0534	mg/L	2.01	105	(0%-20%)		

QC Summary

Workorder: **590845**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2308385											
Magnesium	2.00		4.86		7.28	mg/L	1.68	121	(0%-20%)	BAJ	09/03/22 10:49
Manganese	0.0500		0.0391		0.0926	mg/L	0.447	107	(0%-20%)		
Molybdenum	0.0500	U	ND		0.0536	mg/L	0.447	107	(0%-20%)		
Potassium	2.00		0.439		2.38	mg/L	2.49	97.1	(0%-20%)		09/02/22 23:41
Selenium	0.0500	U	ND		0.0478	mg/L	3.8	95.5	(0%-20%)		
Sodium	2.00		3.36		5.45	mg/L	1.34	105	(0%-20%)		
Thallium	0.0500	U	ND		0.0449	mg/L	2.98	89.8	(0%-20%)		
QC1205182314 590838001 PS											
Magnesium	2000		4860		7000	ug/L		107	(75%-125%)		09/03/22 10:52
QC1205174769 590838001 SDILT											
Antimony		U	ND	U	ND	ug/L	N/A		(0%-20%)		09/03/22 14:37
Arsenic		U	ND	U	ND	ug/L	N/A		(0%-20%)		09/02/22 23:48
Barium			12.0	J	2.29	ug/L	4.59		(0%-20%)		
Beryllium		U	ND	U	ND	ug/L	N/A		(0%-20%)		09/03/22 11:04
Boron		J	5.32	U	ND	ug/L	N/A		(0%-20%)		
Cadmium		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Calcium			4650		892	ug/L	4.21		(0%-20%)		

QC Summary

Workorder: **590845**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2308385										
Chromium	J	9.08	U	ND	ug/L	N/A		(0%-20%)	BAJ	09/02/22 23:48
Cobalt	J	0.844	U	ND	ug/L	N/A		(0%-20%)		
Iron	J	76.3	U	ND	ug/L	N/A		(0%-20%)		
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Lithium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Magnesium		4860		866	ug/L	11		(0%-20%)		09/03/22 11:04
Manganese		39.1		7.50	ug/L	3.96		(0%-20%)		
Molybdenum	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Potassium		439	J	85.4	ug/L	2.83		(0%-20%)		09/02/22 23:48
Selenium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Sodium		3360		579	ug/L	13.8		(0%-20%)		
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Metals Analysis-Mercury										
Batch 2308555										
QC1205175118 589727024 DUP										
Mercury	U	ND	U	ND	mg/L	N/A			JP2	08/26/22 11:15
QC1205175117 LCS										
Mercury	0.00200			0.00220	mg/L		110	(80%-120%)		08/26/22 11:07

QC Summary

Workorder: **590845**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis-Mercury										
Batch 2308555										
QC1205175116 MB										
Mercury			U	ND	mg/L				JP2	08/26/22 11:05
QC1205175119 589727024 MS										
Mercury	0.00200	U ND		0.00222	mg/L		110	(75%-125%)		08/26/22 11:17
QC1205175120 589727024 SDILT										
Mercury		U ND	U	ND	ug/L	N/A		(0%-10%)		08/26/22 11:19
Solids Analysis										
Batch 2309029										
QC1205176100 590857001 DUP										
Total Dissolved Solids		614		616	mg/L	0.325		(0%-5%)	CH6	08/26/22 15:30
QC1205176099 LCS										
Total Dissolved Solids	300			300	mg/L		100	(95%-105%)		08/26/22 15:30
QC1205176098 MB										
Total Dissolved Solids			U	ND	mg/L					08/26/22 15:30
Titration and Ion Analysis										
Batch 2309339										
QC1205176799 590838001 DUP										
Alkalinity, Total as CaCO3		32.6		32.2	mg/L	1.23		(0%-20%)	HH2	09/04/22 13:40
Bicarbonate alkalinity (CaCO3)		32.6		32.2	mg/L	1.23		(0%-20%)		
Carbonate alkalinity (CaCO3)		U ND	U	ND	mg/L	N/A				
QC1205176801 590857001 DUP										
Alkalinity, Total as CaCO3		J 3.40	J	3.60	mg/L	5.71 ^		(+/-4.00)		09/04/22 13:53
Bicarbonate alkalinity (CaCO3)		J 3.40	J	3.60	mg/L	5.71 ^		(+/-4.00)		

QC Summary

Workorder: **590845**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Titration and Ion Analysis												
Batch 2309339												
Carbonate alkalinity (CaCO3)		U	ND	U	ND	mg/L	N/A			HH2	09/04/22	13:53
QC1205176798 LCS												
Alkalinity, Total as CaCO3	100				104	mg/L		104	(90%-110%)		09/04/22	13:37
QC1205176800 590838001 MS												
Alkalinity, Total as CaCO3	100		32.6		136	mg/L		104	(80%-120%)		09/04/22	13:42
QC1205176802 590857001 MS												
Alkalinity, Total as CaCO3	100	J	3.40		107	mg/L		104	(80%-120%)		09/04/22	13:54

Notes:

The Qualifiers in this report are defined as follows:

<	Result is less than value reported
>	Result is greater than value reported
B	The target analyte was detected in the associated blank.
E	%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
E	General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
FB	Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
H	Analytical holding time was exceeded
J	See case narrative for an explanation
J	Value is estimated
N	Metals--The Matrix spike sample recovery is not within specified control limits
N/A	RPD or %Recovery limits do not apply.
N1	See case narrative
ND	Analyte concentration is not detected above the detection limit
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
R	Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.
R	Sample results are rejected
U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

QC Summary

Workorder: **590845**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

Y Other specific qualifiers were required to properly define the results. Consult case narrative.

Z Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.

d 5-day BOD--The 2:1 depletion requirement was not met for this sample

e 5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes

h Preparation or preservation holding time was exceeded

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where the duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Technical Case Narrative
Georgia Power Company
SDG #: 591355

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 35
Analytical Batch: 2310153

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 14
Preparation Batch: 2310152

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
591355001	FD-01
591355002	PZ-58I
591355003	PZ-60I
591355004	FB-02
591355005	BRGWC-29I
591355006	BRGWC-30I
591355007	BRGWC-50
591355008	FD-03
591355009	BRGWC-45
591355010	PZ-44
591355011	PZ-51I
1205178579	Method Blank (MB)**ICP-MS**
1205178580	Laboratory Control Sample (LCS)
1205178583	591351001(BRGWC-17SL) Serial Dilution (SD)
1205178581	591351001(BRGWC-17SS) Matrix Spike (MS)
1205178582	591351001(BRGWC-17SSD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument.

Analyte	591355							
	001	**002**	**003**	**005**	**006**	**007**	**010**	**011**
Boron	5X	5X	5X	10X	20X	5X	20X	5X
Calcium	5X	5X	10X	10X	20X	5X	1X	5X
Cobalt	1X	1X	5X	1X	1X	5X	1X	1X
Magnesium	5X	5X	5X	1X	20X	5X	1X	5X
Manganese	100X	100X	1000X	10X	20X	1000X	1X	1000X
Sodium	1X	1X	5X	1X	1X	5X	1X	1X

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 35
Analytical Batch: 2310155

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 14
Preparation Batch: 2310154

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
591355012	PZ-51D
591355013	PZ-61I
591355014	PZ-51S
591355015	FD-02
591355016	PZ-50D
591355017	EB-06
591355018	PZ-62I
591355019	PZ-59I
591355020	BRGWC-27I
591355021	FB-03
591355022	PZ-63I
591355023	PZ-57I
591355024	BRGWC-32S
591355025	EB-07
591355026	BRGWC-52I
1205178584	Method Blank (MB)**ICP-MS**
1205178585	Laboratory Control Sample (LCS)
1205178588	591355012(PZ-51DL) Serial Dilution (SD)
1205178586	591355012(PZ-51DS) Matrix Spike (MS)
1205178587	591355012(PZ-51DSD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

CRDL/PQL Requirements
The CRDL standard recoveries for SW846 6020A/6020B met the advisory control limits with the exception of calcium. Client sample concentrations were less than the MDL or greater than two times the CRDL; therefore the data were not adversely affected. 591355014 (PZ-51S), 591355015 (FD-02), 591355017 (EB-06), 591355021 (FB-03), 591355022 (PZ-63I), 591355024 (BRGWC-32S), 591355025 (EB-07) and 591355026 (BRGWC-52I).

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples 591355012 (PZ-51D), 591355013 (PZ-61I), 591355016 (PZ-50D), 591355018 (PZ-62I), 591355019 (PZ-59I), 591355020 (BRGWC-27I), 591355022 (PZ-63I), 591355023 (PZ-57I), 591355024 (BRGWC-32S) and 591355026 (BRGWC-52I) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument. Per the SOP, sample 591355019 (PZ-59I) was diluted due to internal standard recoveries outside the acceptable control limits.

Analyte	591355									
	012	**013**	**016**	**018**	**019**	**020**	**022**	**023**	**024**	**026**
Barium	1X	1X	1X	1X	5X	1X	1X	1X	1X	1X
Boron	1X	5X	5X	5X	1X	10X	10X	5X	10X	20X
Calcium	10X	5X	5X	5X	100X	10X	1X	5X	1X	1X
Cobalt	1X	1X	1X	1X	5X	1X	1X	1X	1X	1X
Iron	1X	1X	1X	1X	100X	1X	1X	1X	1X	1X
Lead	1X	1X	1X	1X	5X	1X	1X	1X	1X	1X
Magnesium	1X	5X	5X	5X	5X	1X	1X	1X	1X	1X
Manganese	10X	1000X	100X	100X	100X	1X	10X	20X	1X	1X
Sodium	1X	5X	5X	1X	5X	1X	1X	1X	1X	1X
Thallium	1X	1X	1X	1X	5X	1X	1X	1X	1X	1X

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**
Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 38
Analytical Batch: 2310246

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 38

Preparation Batch: 2310245

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
591355001	FD-01
591355002	PZ-58I
591355003	PZ-60I
591355004	FB-02
591355005	BRGWC-29I
591355006	BRGWC-30I
591355007	BRGWC-50
591355008	FD-03
591355009	BRGWC-45
591355010	PZ-44
591355011	PZ-51I
591355012	PZ-51D
591355013	PZ-61I
591355014	PZ-51S
591355015	FD-02
591355016	PZ-50D
591355017	EB-06
591355018	PZ-62I
591355019	PZ-59I
591355020	BRGWC-27I
1205178776	Method Blank (MB)**CVAA**
1205178777	Laboratory Control Sample (LCS)
1205178780	591355002(PZ-58IL) Serial Dilution (SD)
1205178778	591355002(PZ-58ID) Sample Duplicate (DUP)
1205178779	591355002(PZ-58IS) Matrix Spike (MS)
1205178781	591355002(PZ-58IPS) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Matrix Spike (MS/MSD) Recovery Statement
The percent recoveries (%R) obtained from the MS/MSD analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The MS/MSD (See Below) did not meet the recommended quality control acceptance criteria for percent recoveries for the following applicable analyte. The post spike also did not meet the required control limits; thus, confirming matrix interferences and/or sample non-homogeneity.

Sample	Analyte	Value
1205178779 (PZ-58IMS)	Mercury	57.7* (75%-125%)

Post Spike (PS) Recovery Statement
The percent recoveries (%R) obtained from the PS analyses are evaluated when the sample concentration is less

than four times (4X) the spike concentration added. The PS did not meet the recommended quality control acceptance criteria for percent recoveries for all applicable analytes and verifies the presence of matrix interferences.

Sample	Analyte	Value
1205178781 (PZ-58IPS)	Mercury	54.6* (80%-120%)

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**
Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 38
Analytical Batch: 2310248

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 38
Preparation Batch: 2310247

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
591355021	FB-03
591355022	PZ-63I
591355023	PZ-57I
591355024	BRGWC-32S
591355025	EB-07
591355026	BRGWC-52I
1205178782	Method Blank (MB)**CVAA**
1205178783	Laboratory Control Sample (LCS)
1205178786	590142001(NonSDGL) Serial Dilution (SD)
1205178784	590142001(NonSDGD) Sample Duplicate (DUP)
1205178785	590142001(NonSDGS) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

General Chemistry

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 30
Analytical Batch: 2310523

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
591355001	FD-01
591355002	PZ-58I
591355003	PZ-60I
591355004	FB-02
1205179258	Method Blank (MB)
1205179259	Laboratory Control Sample (LCS)
1205179260	591351001(BRGWC-17S) Sample Duplicate (DUP)
1205179261	591351001(BRGWC-17S) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Sample Dilutions
The following samples 1205179260 (BRGWC-17SDUP), 1205179261 (BRGWC-17SPS), 591355001 (FD-01), 591355002 (PZ-58I) and 591355003 (PZ-60I) were diluted because target analyte concentrations exceeded the calibration range. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	591355		
	001	002	003
Chloride	5X	5X	5X
Sulfate	100X	100X	200X

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 30
Analytical Batch: 2310658

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
591355005	BRGWC-29I
591355006	BRGWC-30I
591355007	BRGWC-50
591355008	FD-03
591355009	BRGWC-45
591355010	PZ-44
591355011	PZ-51I
591355012	PZ-51D
591355013	PZ-61I
591355014	PZ-51S
1205179523	Method Blank (MB)

1205179524	Laboratory Control Sample (LCS)
1205179525	591355005(BRGWC-29I) Sample Duplicate (DUP)
1205179526	591355005(BRGWC-29I) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Matrix Spike (MS)/Post Spike (PS) Recovery Statement
The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Chloride	1205179526 (BRGWC-29IPS)	131* (90%-110%)

Technical Information

Sample Dilutions
The following samples 1205179525 (BRGWC-29IDUP), 1205179526 (BRGWC-29IPS), 591355005 (BRGWC-29I), 591355006 (BRGWC-30I), 591355007 (BRGWC-50), 591355008 (FD-03), 591355009 (BRGWC-45), 591355010 (PZ-44), 591355011 (PZ-51I), 591355012 (PZ-51D) and 591355013 (PZ-61I) were diluted because target analyte concentrations exceeded the calibration range. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	591355								
	005	006	007	008	009	010	011	012	013
Chloride	1X	1X	5X	10X	10X	1X	2X	50X	10X
Sulfate	100X	100X	100X	10X	10X	10X	100X	50X	200X

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 30
Analytical Batch: 2310688

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
591355015	FD-02
591355016	PZ-50D
591355017	EB-06
591355018	PZ-62I
591355019	PZ-59I
591355020	BRGWC-27I

591355021	FB-03
591355022	PZ-63I
591355023	PZ-57I
591355024	BRGWC-32S
591355025	EB-07
591355026	BRGWC-52I
1205179577	Method Blank (MB)
1205179578	Laboratory Control Sample (LCS)
1205179579	591355015(FD-02) Sample Duplicate (DUP)
1205179580	591355015(FD-02) Post Spike (PS)
1205179581	591355026(BRGWC-52I) Sample Duplicate (DUP)
1205179582	591355026(BRGWC-52I) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Matrix Spike (MS)/Post Spike (PS) Recovery Statement
The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Chloride	1205179580 (FD-02PS)	111* (90%-110%)
	1205179582 (BRGWC-52IPS)	117* (90%-110%)

Technical Information

Sample Dilutions
The following samples 1205179581 (BRGWC-52IDUP), 1205179582 (BRGWC-52IPS), 591355016 (PZ-50D), 591355018 (PZ-62I), 591355019 (PZ-59I), 591355020 (BRGWC-27I), 591355022 (PZ-63I), 591355023 (PZ-57I), 591355024 (BRGWC-32S) and 591355026 (BRGWC-52I) were diluted because target analyte concentrations exceeded the calibration range. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	591355							
	016	018	019	020	022	023	024	026
Chloride	100X	1X	200X	1X	1X	1X	1X	1X
Sulfate	100X	50X	200X	20X	20X	40X	20X	10X

Miscellaneous Information

Manual Integrations
Samples 591355018 (PZ-62I) and 591355019 (PZ-59I) were manually integrated to correctly position the

baseline as set in the calibration standards.

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 19
Analytical Batch: 2310249

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
591355001	FD-01
591355002	PZ-58I
591355003	PZ-60I
591355004	FB-02
591355005	BRGWC-29I
591355006	BRGWC-30I
591355007	BRGWC-50
591355011	PZ-51I
591355012	PZ-51D
591355013	PZ-61I
591355014	PZ-51S
591355015	FD-02
1205178788	Method Blank (MB)
1205178789	Laboratory Control Sample (LCS)
1205178791	591355007(BRGWC-50) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 19
Analytical Batch: 2310760

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
591355008	FD-03
591355009	BRGWC-45
591355010	PZ-44
591355016	PZ-50D
591355017	EB-06
591355018	PZ-62I
591355019	PZ-59I
591355020	BRGWC-27I
591355021	FB-03
591355022	PZ-63I

591355023	PZ-57I
591355024	BRGWC-32S
591355025	EB-07
591355026	BRGWC-52I
1205179714	Method Blank (MB)
1205179715	Laboratory Control Sample (LCS)
1205179716	591355024(BRGWC-32S) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **Alkalinity**
Analytical Method: SM 2320B
Analytical Procedure: GL-GC-E-033 REV# 14
Analytical Batch: 2310459

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
591355001	FD-01
591355002	PZ-58I
591355003	PZ-60I
591355004	FB-02
591355005	BRGWC-29I
591355006	BRGWC-30I
591355007	BRGWC-50
591355011	PZ-51I
591355012	PZ-51D
591355013	PZ-61I
591355014	PZ-51S
591355015	FD-02
1205179131	Laboratory Control Sample (LCS)
1205179134	591355012(PZ-51D) Sample Duplicate (DUP)
1205179135	591355012(PZ-51D) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **Alkalinity**
Analytical Method: SM 2320B
Analytical Procedure: GL-GC-E-033 REV# 14
Analytical Batch: 2310460

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
591355008	FD-03
591355009	BRGWC-45
591355010	PZ-44
591355016	PZ-50D
591355017	EB-06
591355018	PZ-62I
591355019	PZ-59I
591355020	BRGWC-27I
591355021	FB-03
591355022	PZ-63I
591355023	PZ-57I
591355024	BRGWC-32S
591355025	EB-07
591355026	BRGWC-52I
1205179136	Laboratory Control Sample (LCS)
1205179137	591355008(FD-03) Sample Duplicate (DUP)
1205179138	591355008(FD-03) Matrix Spike (MS)
1205179139	591355026(BRGWC-52I) Sample Duplicate (DUP)
1205179140	591355026(BRGWC-52I) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Technical Case Narrative
Georgia Power Company
SDG #: 590855

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 35
Analytical Batch: 2308385

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 14
Preparation Batch: 2308382

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
590855001	BRGWA-12I
590855002	FB-01
590855003	BRGWA-12S
590855004	BRGWC-25I
1205174765	Method Blank (MB)**ICP-MS**
1205174766	Laboratory Control Sample (LCS)
1205174769	590838001(BRGWA-2SL) Serial Dilution (SD)
1205174767	590838001(BRGWA-2SS) Matrix Spike (MS)
1205174768	590838001(BRGWA-2SSD) Matrix Spike Duplicate (MSD)
1205182314	590838001(BRGWA-2SPS) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Quality Control (QC) Information

Matrix Spike (MS/MSD) Recovery Statement
The percent recoveries (%R) obtained from the MS/MSD analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The MS/MSD (See Below) did not meet the recommended quality control acceptance criteria for percent recoveries for the following applicable analyte. The post spike recovery was within the required control limits. This verifies the absence of a matrix interference in the post-spike digested sample. The recovery may be attributed to possible sample matrix interference and/or

non-homogeneity.

Sample	Analyte	Value
1205174767 (BRGWA-2SMS)	Magnesium	127* (75%-125%)

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Sample 590855004 (BRGWC-25I) was diluted to ensure that the analyte concentration was within the linear calibration range of the instrument.

Analyte	590855 004
Boron	20X
Calcium	20X
Manganese	20X

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**
Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 38
Analytical Batch: 2308549

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 38
Preparation Batch: 2308547

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
590855001	BRGWA-12I
590855002	FB-01
590855003	BRGWA-12S
590855004	BRGWC-25I
1205175101	Method Blank (MB)**CVAA**
1205175102	Laboratory Control Sample (LCS)
1205175105	590719007(NonSDGL) Serial Dilution (SD)
1205175103	590719007(NonSDGD) Sample Duplicate (DUP)
1205175104	590719007(NonSDGS) Matrix Spike (MS)
1205175106	590719007(NonSDGPS) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Matrix Spike (MS/MSD) Recovery Statement
The percent recoveries (%R) obtained from the MS/MSD analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The MS/MSD (See Below) did not meet the recommended quality control acceptance criteria for percent recoveries for the following applicable analyte. The post spike also did not meet the required control limits; thus, confirming matrix interferences and/or sample non-homogeneity.

Sample	Analyte	Value
1205175104 (Non SDG 590719007MS)	Mercury	73.9* (75%-125%)

Post Spike (PS) Recovery Statement
The percent recoveries (%R) obtained from the PS analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The PS did not meet the recommended quality control acceptance criteria for percent recoveries for all applicable analytes and verifies the presence of matrix interferences.

Sample	Analyte	Value
1205175106 (Non SDG 590719007PS)	Mercury	73.5* (80%-120%)

General Chemistry

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 30
Analytical Batch: 2308691

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
590855001	BRGWA-12I
590855002	FB-01
590855003	BRGWA-12S
590855004	BRGWC-25I
1205175343	Method Blank (MB)
1205175344	Laboratory Control Sample (LCS)
1205175345	590838001(BRGWA-2S) Sample Duplicate (DUP)
1205175346	590838001(BRGWA-2S) Post Spike (PS)
1205175347	590857001(BRGWC-33S) Sample Duplicate (DUP)
1205175348	590857001(BRGWC-33S) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Matrix Spike (MS)/Post Spike (PS) Recovery Statement
The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Sulfate	1205175346 (BRGWA-2SPS)	111* (90%-110%)

Technical Information

Sample Dilutions
The following samples 1205175347 (BRGWC-33SDUP), 1205175348 (BRGWC-33SPS) and 590855004 (BRGWC-25I) were diluted because target analyte concentrations exceeded the calibration range. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	590855 004
Sulfate	20X

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 19
Analytical Batch: 2309029

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
590855001	BRGWA-12I
590855002	FB-01
590855003	BRGWA-12S
590855004	BRGWC-25I
1205176098	Method Blank (MB)
1205176099	Laboratory Control Sample (LCS)
1205176100	590857001(BRGWC-33S) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **Alkalinity**
Analytical Method: SM 2320B

Analytical Procedure: GL-GC-E-033 REV# 14
Analytical Batch: 2309339

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
590855001	BRGWA-12I
590855002	FB-01
590855003	BRGWA-12S
590855004	BRGWC-25I
1205176798	Laboratory Control Sample (LCS)
1205176799	590838001(BRGWA-2S) Sample Duplicate (DUP)
1205176800	590838001(BRGWA-2S) Matrix Spike (MS)
1205176801	590857001(BRGWC-33S) Sample Duplicate (DUP)
1205176802	590857001(BRGWC-33S) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Technical Case Narrative
Georgia Power Company
SDG #: 590845

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 35
Analytical Batch: 2308385

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 14
Preparation Batch: 2308382

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
590845001	BRGWA-23S
590845002	BRGWC-47
590845003	EB-05
1205174765	Method Blank (MB)**ICP-MS**
1205174766	Laboratory Control Sample (LCS)
1205174769	590838001(BRGWA-2SL) Serial Dilution (SD)
1205174767	590838001(BRGWA-2SS) Matrix Spike (MS)
1205174768	590838001(BRGWA-2SSD) Matrix Spike Duplicate (MSD)
1205182314	590838001(BRGWA-2SPS) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Quality Control (QC) Information

Matrix Spike (MS/MSD) Recovery Statement
The percent recoveries (%R) obtained from the MS/MSD analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The MS/MSD (See Below) did not meet the recommended quality control acceptance criteria for percent recoveries for the following applicable analyte. The post spike recovery was within the required control limits. This verifies the absence of a matrix interference in the post-spike digested sample. The recovery may be attributed to possible sample matrix interference and/or non-homogeneity.

Sample	Analyte	Value
1205174767 (BRGWA-2SMS)	Magnesium	127* (75%-125%)

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Sample 590845002 (BRGWC-47) was diluted to ensure that the analyte concentration was within the linear calibration range of the instrument.

Analyte	590845 002
Boron	10X
Calcium	10X
Magnesium	10X

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**
Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 38
Analytical Batch: 2308555

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 38
Preparation Batch: 2308553

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
590845001	BRGWA-23S
590845002	BRGWC-47
590845003	EB-05
1205175116	Method Blank (MB)**CVAA**
1205175117	Laboratory Control Sample (LCS)
1205175120	589727024(NonSDGL) Serial Dilution (SD)
1205175118	589727024(NonSDGD) Sample Duplicate (DUP)
1205175119	589727024(NonSDGS) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

General Chemistry

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 30
Analytical Batch: 2308691

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
590845001	BRGWA-23S
590845002	BRGWC-47
590845003	EB-05
1205175343	Method Blank (MB)
1205175344	Laboratory Control Sample (LCS)
1205175345	590838001(BRGWA-2S) Sample Duplicate (DUP)
1205175346	590838001(BRGWA-2S) Post Spike (PS)
1205175347	590857001(BRGWC-33S) Sample Duplicate (DUP)
1205175348	590857001(BRGWC-33S) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Matrix Spike (MS)/Post Spike (PS) Recovery Statement
The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Sulfate	1205175346 (BRGWA-2SPS)	111* (90%-110%)

Technical Information

Sample Dilutions
The following samples 1205175347 (BRGWC-33SDUP), 1205175348 (BRGWC-33SPS), 590845001 (BRGWA-23S) and 590845002 (BRGWC-47) were diluted because target analyte concentrations exceeded the calibration range. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	590845	
	001	002
Sulfate	2X	200X

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 19

Analytical Batch: 2309029

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
590845001	BRGWA-23S
590845002	BRGWC-47
590845003	EB-05
1205176098	Method Blank (MB)
1205176099	Laboratory Control Sample (LCS)
1205176100	590857001(BRGWC-33S) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **Alkalinity**
Analytical Method: SM 2320B
Analytical Procedure: GL-GC-E-033 REV# 14
Analytical Batch: 2309339

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
590845001	BRGWA-23S
590845002	BRGWC-47
590845003	EB-05
1205176798	Laboratory Control Sample (LCS)
1205176799	590838001(BRGWA-2S) Sample Duplicate (DUP)
1205176800	590838001(BRGWA-2S) Matrix Spike (MS)
1205176801	590857001(BRGWC-33S) Sample Duplicate (DUP)
1205176802	590857001(BRGWC-33S) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Page: _____ of _____
Project # _____
GEL Quote #: _____
COC Number [1]: _____
PO Number:

GEL Laboratories LLC
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

591355

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power — Phone # 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - BCD — Fax #
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: Jordan Barnard * Anna Schmitter — Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS EPA 300, SM 2540C	Total & Bicarb Alk SM 2320B	NI Metals * EPA 6020B, 6010D	NI Radium 226 & 228 SW-846 9315, 9320	<-- Preservative Type (6)	Comments
FD-01	08/24/22	—	G	N	WG			7	✓	✓	✓	✓	field pH = NA	Note: extra sample is required for sample specific QC
PZ-58I	08/24/22	1030	G	N	WG			7	✓	✓	✓	✓	field pH = 3.81	
PZ-60I	08/24/22	1220	G	N	WG			7	✓	✓	✓	✓	field pH = 4.55	
FB-02	08/24/22	1355	G	N	WQ			7	✓	✓	✓	✓	field pH = N/A	
BRGWC-29I	08/24/22	1710	G	N	WG			7	✓	✓	✓	✓	field pH = 4.39	
BRGWC-30I	08/24/22	1609	G	N	WG			7	✓	✓	✓	✓	field pH = 6.38	
BRGWC-50	08/24/22	1451	G	N	WG			7	✓	✓	✓	✓	field pH = 5.67	
FD-03	08/25/22	—	G	N	WG			7	✓	✓	✓	✓	field pH = N/A	
BRGWC-45	08/25/22	1010	G	N	WG			7	✓	✓	✓	✓	field pH = 5.74	
PZ-44	08/25/22	1131	G	N	WG			7	✓	✓	✓	✓	field pH = 6.06	

TAT Requested: Normal: X Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [x] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [x] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] Yes [ ] No *Cooler Temp:* ____ °C

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	8/29/22	1515	1	8/29/22	1515
2			2		
3			3		

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **WD**=Drinking Water, **WG**=Groundwater, **WS**=Surface Water, **WW**=Waste Water, **WL**=Leachate, **SO**=Soil, **SE**=Sediment, **SL**=Sludge, **WQ**=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - 1).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

Page: _____ of _____
Project # _____
GEL Quote #: _____
COC Number [1]: _____
PO Number:

GEL Laboratories LLC
gel.com
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power — Phone # 404-506-7116
Project/Site Name: Plant Branch Ash Ponds BCD — Fax #
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: Hunter Auld, Angan Schnittker — Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (?) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS EPA 300, SM 2540C	Total & Bicarb Alk SM 2320B	Metals * EPA 6020B, 6010D (NI)	Radium 226 & 228 SW-846 9315, 9320 (NI)	<-- Preservative Type (6)	Comments
PZ-51I	08/24/22	1234	G	N	WG			7	✓	✓	✓	✓	field pH = 5.49	
PZ-51D	08/24/22	1049	G	N	WG			7	✓	✓	✓	✓	field pH = ~~7.15~~ 7.15	HR
~~PZ-60I~~ PZ-61I	08/24/22	1402	G	N	WG			7	✓	✓	✓	✓	field pH = 5.14	HP
PZ-51S	08/24/22	1609	G	N	WG			7	✓	✓	✓	✓	field pH = 6.12	
FD-02	08/24/22	—	G	N	WG			7	✓	✓	✓	✓	field pH = —	
PZ-50D	08/25/22	0951	G	N	WG			7	✓	✓	✓	✓	field pH = 6.11	
EB-06	08/25/22	0942	G	N	WQ			7	✓	✓	✓	✓	field pH = —	
PZ-62I	08/25/22	1121	G	N	WG			7	✓	✓	✓	✓	field pH = 5.50	
PZ-59I	08/25/22	1316	G	N	WG			7	✓	✓	✓	✓	field pH = 3.72	
													field pH =	

TAT Requested: Normal: x Rush: ____ Specify: ____ (Subject to Surcharge)

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	8/29/22	1515		8/29/22	1515
2			2		
3			3		

Fax Results: [ ] Yes [x] No
Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [x] Level 2 [ ] Level 3 [ ] Level 4
Additional Remarks: *** Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg**
For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* *Cooler Temp:* ____ °C
Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

> For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **WD**=Drinking Water, **WG**=Groundwater, **WS**=Surface Water, **WW**=Waste Water, **WL**=Leachate, **SO**=Soil, **SE**=Sediment, **SL**=Sludge, **WQ**=Water Quality Control Matrix

5.) Sample Analysis Requested. Analytical method requested (i.e. **8260B, 6010B/7470A**) and number of containers provided for each (i.e. *8260B* - 3, *6010B/7470A* - 1).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic; Ba = Barium; Cd = Cadmium; Cr = Chromium; Pb = Lead; Hg= Mercury; Se= Selenium; Ag= Silver; MR= Misc. RCRA metals

Characteristic Hazards
FL = Flammable/Ignitable; CO = Corrosive; RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste *(F,K,P and U-listed wastes.)* *Waste code(s):*

Other
OT= Other / Unknown *(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)* *Description:*

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

Page: _____ of _____
Project # _____
GEL Quote #: _____
COC Number [1]: _____
PO Number:

GEL Laboratories LLC
gel.com
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power Phone # 404-506-7116

Project/Site Name: Plant Branch Ash Ponds B/C/D Fax #

Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308

Collected By: Taylor Goble / Anna Schmaker Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS EPA 300, SM 2540C	Total & Bicarb Alk SM 2320B	NI Metals * EPA 6020B, 6010D	NI Radium 226 & 228 SW-846 9315, 9320	<-- Preservative Type (6)
BRGWC-27I	08/25/22	1012	G	N	WG			7	✓	✓	✓	✓	field pH = 6.03
FB-03	08/25/22	1045	G	N	WQ			7	✓	✓	✓	✓	field pH = —
PZ-63I	08/25/22	1220	G	N	WG			7	✓	✓	✓	✓	field pH = 5.65
PZ-57I	08/25/22	1055	G	N	WG			7	✓	✓	✓	✓	field pH = 5.91
BRGWC-32S	08/25/22	1235	G	N	WG			7	✓	✓	✓	✓	field pH = 6.06
EB-07	08/25/22	1245	G	N	WQ			7	✓	✓	✓	✓	field pH = —
BRGWC-52I	08/25/22	1255	G	N	WG			7	✓	✓	✓	✓	field pH = 6.21
													field pH =
													field pH =
													field pH =

Comments
Note: extra sample is required for sample specific QC

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	8/29/22	1515	1	8/29/22	1515
2			2		
3			3		

TAT Requested: Normal: x Rush: ____ Specify: _____ (Subject to Surcharge)

Fax Results: [ ] Yes [x] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [x] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] Yes [ ] No *Cooler Temp:* ____ °C

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **WD**=Drinking Water, **WG**=Groundwater, **WS**=Surface Water, **WW**=Waste Water, **WL**=Leachate, **SO**=Soil, **SE**=Sediment, **SL**=Sludge, **WQ**=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B, 6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: CPCC	SDG/AR/COC/Work Order: 591355 ET
Received By: Thyasia Tatum	Date Received: 8/24/20
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier (Other)

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): ____ CPM / mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: (Wet Ice) Ice Packs Dry Ice None Other: *all temperatures are recorded in Celsius TEMP: 1C
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR2-20 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials AM Date 8/31/20 Page 1 of 1

590855, 590856

Page: _____ of _____
Project # _____
GEL Quote #: _____
COC Number (1): _____
PO Number:

GEL Laboratories LLC
gel.com
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power Phone # 404-506-7116
Project/Site Name: Plant Branch Ash Ponds Fax #
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: Hunter Auld Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS EPA 300, SM 2540C	Total & Bicarb Alk SM 2320B	Metals * EPA 6020B, 6010D	Radium 226 & 228 SW-846 9315, 9320	NI	NI	<-- Preservative Type (6)	Comments
BRGWA-12I	08/23/22	1143	G	N	WG			7	✓	✓	✓	✓			field pH = 6.39	Note: extra sample is required for sample specific QC
FB-01	08/23/22	1315	G	N	WQ			7	✓	✓	✓	✓			field pH = NA	
BRGWA-12S	08/23/22	1338	G	N	WG			7	✓	✓	✓	✓			field pH = 5.90	
BRGWC-25I	08/23/22	1541	G	N	WG			7	✓	✓	✓	✓			field pH = 6.11	
															field pH =	
															field pH =	
															field pH =	
															field pH =	
															field pH =	
															field pH =	

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1			1		
2			2		
3			3		

TAT Requested: Normal: x Rush: ____ Specify: _____ (Subject to Surcharge)

Fax Results: [ ] Yes [x] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [x] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] Yes [ ] No *Cooler Temp:* ____ °C

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.

4.) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. *8260B* - 3, *6010B/7470A* - 1).

6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic Hg= Mercury
Ba = Barium Se= Selenium
Cd = Cadmium Ag= Silver
Cr = Chromium MR= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

590851, 590855, ET 590856 590857 590858

Client: GPCC	SDG/AR/COC/Work Order: 590838, 590840, 590845,
Received By: Thyasia Tatum	Date Received: 5/24/22
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services (Courier) Other

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM / mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: (Wet Ice) Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: 2°C
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR2-20 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓		✓	
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials _____ Date _____ Page _____ of _____

590845, 590851

Page: _____ of _____
Project # _____
GEL Quote #: _____
COC Number [1]: _____
PO Number:

GEL Laboratories LLC
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics
gel.com

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power Phone # 404-506-7116
Project/Site Name: Plant Branch Ash Ponds Fax #
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: Jordan Berryhill Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS EPA 300, SM 2540C	Total & Bicarb Alk SM 2320B	Metals * EPA 6020B, 6010D	Radium 226 & 228 SW-846 9315, 9320	<-- Preservative Type (6)	Comments Note: extra sample is required for sample specific QC
BR6WA-23S	08/23/22	1345	G	N	WG			7	✓	✓	✓	✓		field pH = 5.66
BR6WC-47	08/23/22	1520	G	N	WG			7	✓	✓	✓	✓		field pH = 5.61
EB-05	08/23/22	1455	G	N	WQ			7	✓	✓	✓	✓		field pH = N/A
														field pH =
														field pH =
														field pH =
														field pH =
														field pH =
														field pH =
														field pH =

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1		8/24/22	0845		8/24/22	0845
2		8/24	1327	Stacy Boone	8/24/22	1327
3						

TAT Requested: Normal: x Rush: _____ Specify: _____ (Subject to Surcharge)

Fax Results: [ ] Yes [x] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [x] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg

For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No Cooler Temp: ____ °C

> For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **WD**=Drinking Water, **WG**=Groundwater, **WS**=Surface Water, **WW**=Waste Water, **WL**=Leachate, **SO**=Soil, **SE**=Sediment, **SL**=Sludge, **WQ**=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B, 6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

590851, 590855, E1 590856 590857 590858

Client: GPCC	SDG/AR/COC/Work Order: 590838, 590840, 590845,
Received By: Thyasia Tatum	Date Received: 6/24/22
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services (Courier) Other

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A) Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM / uR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: (Wet Ice) Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: 2°C
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR2-20 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓		✓	
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials _____ Date _____ Page _____ of _____

GL-CHL-SR-001 Rev 7

List of current GEL Certifications as of 03 October 2022

State	Certification
Alabama	42200
Alaska	17−018
Alaska Drinking Water	SC00012
Arkansas	88−0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH−0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330−15−00283, P330−15−00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C−SC−01
Kansas NELAP	E−10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M−SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE−OS−26−13
Nevada	SC000122023−3
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R−158
Oklahoma	2022−137
Pennsylvania NELAP	68−00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235−22−20
Utah NELAP	SC000122021−36
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

PO Box 30712 Charleston, SC 29417
2040 Savage Road Charleston, SC 29407
P 843.556.8171
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gel.com

February 27, 2023

Joju Abraham
Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308

Re: Branch CCR Groundwater Compliance APBCD
Work Orders: 609212,608413,608602,608803 and 608969

Dear Joju Abraham:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on January 25, 2023, January 26, 2023, January 27, 2023, January 31, 2023 and February 02, 2023. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt.

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4504.

Sincerely,

Erin L Trent

Erin Trent
Project Manager

Purchase Order: GPC82177-0006
Enclosures

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 608602 GEL Work Order: 608602

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

J Value is estimated

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Erin Trent.

Reviewed by Erin B Trent

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2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 609212 GEL Work Order: 609212

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

J Value is estimated

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Erin Trent.

Reviewed by Erin B Trent

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 608803 GEL Work Order: 608803

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

J Value is estimated

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Erin Trent.

Reviewed by Erin B Trent

GEL LABORATORIES LLC
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Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 608413 GEL Work Order: 608413

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria
** Analyte is a Tracer compound
** Analyte is a surrogate compound
H Analytical holding time was exceeded
J Value is estimated
U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Erin Trent.

Reviewed by Erin B Trent

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 608969 GEL Work Order: 608969

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

E %difference of sample and SD is >10%. Sample concentration must meet flagging criteria

J Value is estimated

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Erin Trent.

Reviewed by Erin B Trent

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: February 27, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-BRGWA-12S	Project:	GPCC00101
Sample ID:	608413001	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	24-JAN-23 13:10		
Receive Date:	25-JAN-23		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		5.97			SU			AJ1	01/24/23	1310	2373861	1
GEL Field Ferrous Iron "As Received"												
Field Ferrous Iron		0			mg/L			AJ1	01/24/23	1310	2373861	2
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		3.79	0.0670	0.200	mg/L		1	HXC1	01/25/23	1624	2374002	3
Fluoride	J	0.0926	0.0330	0.100	mg/L		1					
Sulfate		0.628	0.133	0.400	mg/L		1					
Nitrate-N		0.945	0.165	0.500	mg/L		5	HXC1	01/25/23	2234	2374002	4
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	01/27/23	1044	2374419	5
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1	SKJ	02/03/23	1445	2374301	6
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron	J	0.00530	0.00520	0.0150	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		3.28	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	SKJ	02/01/23	1905	2374301	7
Barium		0.0576	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		5.62	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Manganese	J	0.00103	0.00100	0.00500	mg/L	1.00	1					
Potassium		2.54	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		5.52	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												

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Certificate of Analysis

Report Date: February 27, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-BRGWA-12S
Sample ID: 608413001
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		59.0	2.38	10.0	mg/L			CH6	01/31/23	1235	2376170	8
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	01/30/23	1543	2374521	9
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		32.0	1.45	4.00	mg/L			EK1	01/30/23	1520	2375521	10
Bicarbonate alkalinity (CaCO3)		32.0	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	LG2	01/26/23	0815	2374300
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	01/26/23	1222	2374418

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	GEL Field Method	
3	EPA 300.0	
4	EPA 300.0	
5	SW846 7470A	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 4500-S (2-) D	
10	SM 2320B	

Notes:

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Certificate of Analysis

Report Date: February 27, 2023

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-BRGWA-12S	Project:	GPCC00101
Sample ID:	608413001	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 27, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-BRGWA-12I	Project:	GPCC00101
Sample ID:	608413002	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	24-JAN-23 14:50		
Receive Date:	25-JAN-23		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		6.48			SU			AJ1	01/24/23	1450	2373861	1
GEL Field Ferrous Iron "As Received"												
Field Ferrous Iron		0			mg/L			AJ1	01/24/23	1450	2373861	2
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		2.49	0.0670	0.200	mg/L		1	HXC1	01/25/23	1655	2374002	3
Fluoride		0.214	0.0330	0.100	mg/L		1					
Sulfate		1.80	0.133	0.400	mg/L		1					
Nitrate-N		0.438	0.0660	0.200	mg/L		2	HXC1	01/26/23	0007	2374002	4
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	01/27/23	1046	2374419	5
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1	SKJ	02/03/23	1448	2374301	6
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron	J	0.00884	0.00520	0.0150	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00529	0.00300	0.0100	mg/L	1.00	1					
Magnesium		3.98	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	J	0.000388	0.000200	0.00100	mg/L	1.00	1					
Antimony		0.0245	0.00100	0.00300	mg/L	1.00	1	SKJ	02/01/23	1908	2374301	7
Barium		0.0512	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		13.7	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Manganese	J	0.00405	0.00100	0.00500	mg/L	1.00	1					
Potassium		3.61	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		11.0	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												

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Certificate of Analysis

Report Date: February 27, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-BRGWA-12I
Sample ID: 608413002
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		114	2.38	10.0	mg/L			CH6	01/31/23	1235	2376170	8
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	01/30/23	1543	2374521	9
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		65.2	1.45	4.00	mg/L			EK1	01/30/23	1528	2375521	10
Bicarbonate alkalinity (CaCO3)		65.2	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	01/26/23	1222	2374418
SW846 3005A	ICP-MS 3005A PREP	LG2	01/26/23	0815	2374300

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	GEL Field Method	
3	EPA 300.0	
4	EPA 300.0	
5	SW846 7470A	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 4500-S (2-) D	
10	SM 2320B	

Notes:

GEL LABORATORIES LLC
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Certificate of Analysis

Report Date: February 27, 2023

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-BRGWA-12I	Project:	GPCC00101
Sample ID:	608413002	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 27, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-BRGWA-23S	Project:	GPCC00101
Sample ID:	608413003	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	24-JAN-23 14:15		
Receive Date:	25-JAN-23		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		5.76			SU			AJ1	01/24/23	1415	2373861	1
GEL Field Ferrous Iron "As Received"												
Field Ferrous Iron		0			mg/L			AJ1	01/24/23	1415	2373861	2
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Nitrate-N		0.261	0.0660	0.200	mg/L		2	HXC1	01/26/23	0037	2374002	3
Chloride		2.88	0.0670	0.200	mg/L		1	HXC1	01/25/23	1726	2374002	4
Fluoride		0.231	0.0330	0.100	mg/L		1					
Sulfate		19.7	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	01/27/23	1048	2374419	5
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	SKJ	02/01/23	1912	2374301	6
Barium		0.0468	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		6.97	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					
Potassium		2.00	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		10.0	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1	SKJ	02/03/23	1450	2374301	7
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron		0.0437	0.00520	0.0150	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00749	0.00300	0.0100	mg/L	1.00	1					
Magnesium		4.43	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Solids Analysis												

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: February 27, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-BRGWA-23S
Sample ID: 608413003
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		102	2.38	10.0	mg/L			CH6	01/31/23	1235	2376170	8
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	01/30/23	1543	2374521	9
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		31.0	1.45	4.00	mg/L			EK1	01/30/23	1531	2375521	10
Bicarbonate alkalinity (CaCO3)		31.0	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	01/26/23	1222	2374418
SW846 3005A	ICP-MS 3005A PREP	LG2	01/26/23	0815	2374300

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	GEL Field Method	
3	EPA 300.0	
4	EPA 300.0	
5	SW846 7470A	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 4500-S (2-) D	
10	SM 2320B	

Notes:

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Certificate of Analysis

Report Date: February 27, 2023

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-BRGWA-23S	Project:	GPCC00101
Sample ID:	608413003	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 27, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-BRGWC-32S	Project:	GPCC00101
Sample ID:	608413004	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	24-JAN-23 15:41		
Receive Date:	25-JAN-23		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		6.05			SU			AJ1	01/24/23	1541	2373861	1
GEL Field Ferrous Iron "As Received"												
Field Ferrous Iron		0			mg/L			AJ1	01/24/23	1541	2373861	2
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		247	2.66	8.00	mg/L		20	HXC1	01/26/23	0108	2374002	3
Chloride		4.49	0.0670	0.200	mg/L		1	HXC1	01/25/23	1757	2374002	4
Fluoride	J	0.0820	0.0330	0.100	mg/L		1					
Nitrate-N		0.223	0.0660	0.200	mg/L		2	HXC1	01/26/23	0139	2374002	5
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	01/27/23	1049	2374419	6
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	SKJ	02/01/23	1915	2374301	7
Barium		0.0182	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		46.6	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					
Potassium		2.70	0.0800	0.300	mg/L	1.00	1					
Selenium		0.198	0.00150	0.00500	mg/L	1.00	1					
Sodium		27.4	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		1.11	0.0520	0.150	mg/L	1.00	10	SKJ	02/03/23	1424	2374301	8
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1	SKJ	02/03/23	1538	2374301	9
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00700	0.00300	0.0100	mg/L	1.00	1					
Magnesium		32.8	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Solids Analysis												

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Certificate of Analysis

Report Date: February 27, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-BRGWC-32S
Sample ID: 608413004
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		425	2.38	10.0	mg/L			CH6	01/31/23	1235	2376170	10
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	01/30/23	1543	2374521	11
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		34.0	1.45	4.00	mg/L			EK1	01/30/23	1540	2375521	12
Bicarbonate alkalinity (CaCO3)		34.0	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	01/26/23	1222	2374418
SW846 3005A	ICP-MS 3005A PREP	LG2	01/26/23	0815	2374300

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	GEL Field Method	
3	EPA 300.0	
4	EPA 300.0	
5	EPA 300.0	
6	SW846 7470A	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SW846 3005A/6020B	
10	SM 2540C	
11	SM 4500-S (2-) D	
12	SM 2320B	

Notes:

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Certificate of Analysis

Report Date: February 27, 2023

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-BRGWC-32S	Project:	GPCC00101
Sample ID:	608413004	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-PZ-44	Project:	GPCC00101
Sample ID:	608602001	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	25-JAN-23 13:25		
Receive Date:	26-JAN-23		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		6.13			SU			EOS1	01/25/23	1325	2374720	1
GEL Field Ferrous Iron "As Received"												
Field Ferrous Iron		0			mg/L			EOS1	01/25/23	1325	2374720	2
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Nitrate-N	U	ND	0.165	0.500	mg/L		5	HXC1	01/26/23	2255	2374768	3
Sulfate		41.0	0.665	2.00	mg/L		5					
Chloride		5.84	0.0670	0.200	mg/L		1	HXC1	01/26/23	1527	2374768	4
Fluoride		0.130	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	01/30/23	1227	2375028	5
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		1.47	0.0520	0.150	mg/L	1.00	10	SKJ	02/08/23	1739	2374786	6
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	SKJ	02/07/23	1836	2374786	7
Lithium	J	0.00728	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.396	0.00100	0.00500	mg/L	1.00	1	SKJ	02/09/23	1103	2374786	8
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	SKJ	02/08/23	1910	2374786	9
Arsenic	J	0.00221	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0498	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		25.1	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0504	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Magnesium		10.8	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		2.95	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		12.5	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-PZ-44 Project: GPCC00101
Sample ID: 608602001 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		156	2.38	10.0	mg/L			CH6	02/01/23	1135	2376740	10
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	01/30/23	1542	2374524	11
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		79.0	1.45	4.00	mg/L			EK1	02/06/23	1119	2378173	12
Bicarbonate alkalinity (CaCO3)		79.0	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	LG2	01/27/23	0830	2374785
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	01/27/23	0959	2375027

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	GEL Field Method	
3	EPA 300.0	
4	EPA 300.0	
5	SW846 7470A	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SW846 3005A/6020B	
10	SM 2540C	
11	SM 4500-S (2-) D	
12	SM 2320B	

Notes:

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Certificate of Analysis

Report Date: February 24, 2023

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-PZ-44	Project:	GPCC00101
Sample ID:	608602001	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-APBCD-FD-01
Sample ID: 608602002
Matrix: WG
Collect Date: 25-JAN-23 12:00
Receive Date: 26-JAN-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		0.151	0.0330	0.100	mg/L		1	HXC1	01/26/23	1557	2374768	1
Nitrate-N	J	0.0824	0.0330	0.100	mg/L		1					
Chloride		27.3	0.670	2.00	mg/L		10	HXC1	01/27/23	0024	2374768	2
Sulfate		102	1.33	4.00	mg/L		10					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	01/30/23	1232	2375028	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	SKJ	02/08/23	1754	2374786	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0702	0.000670	0.00400	mg/L	1.00	1					
Boron		0.0362	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		34.9	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00261	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0846	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Magnesium		17.2	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.254	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000493	0.000200	0.00100	mg/L	1.00	1					
Potassium		3.83	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		16.4	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	SKJ	02/07/23	1901	2374786	5
Lithium	J	0.00313	0.00300	0.0100	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		253	2.38	10.0	mg/L			CH6	02/01/23	1135	2376740	6
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	01/30/23	1542	2374524	7

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-APBCD-FD-01 Project: GPCC00101
Sample ID: 608602002 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		39.4	1.45	4.00	mg/L			EK1	02/06/23	1123	2378173	8
Bicarbonate alkalinity (CaCO3)		39.4	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	01/27/23	0959	2375027
SW846 3005A	ICP-MS 3005A PREP	LG2	01/27/23	0830	2374785

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 4500-S (2-) D	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-BRGWC-45	Project:	GPCC00101
Sample ID:	608602003	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	25-JAN-23 14:40		
Receive Date:	26-JAN-23		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		5.82			SU			EOS1	01/25/23	1440	2374720	1
GEL Field Ferrous Iron "As Received"												
Field Ferrous Iron		0			mg/L			EOS1	01/25/23	1440	2374720	2
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Nitrate-N	J	0.126	0.0660	0.200	mg/L		2	HXC1	01/27/23	0054	2374768	3
Chloride		27.4	0.670	2.00	mg/L		10	HXC1	01/27/23	0124	2374768	4
Sulfate		102	1.33	4.00	mg/L		10					
Fluoride		0.163	0.0330	0.100	mg/L		1	HXC1	01/26/23	1627	2374768	5
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	01/30/23	1233	2375028	6
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	SKJ	02/07/23	1905	2374786	7
Lithium	J	0.00333	0.00300	0.0100	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	SKJ	02/08/23	1757	2374786	8
Arsenic	J	0.00225	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0695	0.000670	0.00400	mg/L	1.00	1					
Boron		0.0355	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		34.3	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00258	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0752	0.0330	0.100	mg/L	1.00	1					
Lead	J	0.000595	0.000500	0.00200	mg/L	1.00	1					
Magnesium		17.3	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.254	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000545	0.000200	0.00100	mg/L	1.00	1					
Potassium		3.83	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		16.8	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												

GEL LABORATORIES LLC
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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-BRGWC-45 Project: GPCC00101
Sample ID: 608602003 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		251	2.38	10.0	mg/L			CH6	02/01/23	1135	2376740	9
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	01/30/23	1542	2374524	10
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		38.4	1.45	4.00	mg/L			EK1	02/06/23	1132	2378173	11
Bicarbonate alkalinity (CaCO3)		38.4	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	LG2	01/27/23	0830	2374785
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	01/27/23	0959	2375027

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	GEL Field Method	
3	EPA 300.0	
4	EPA 300.0	
5	EPA 300.0	
6	SW846 7470A	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SM 2540C	
10	SM 4500-S (2-) D	
11	SM 2320B	

Notes:

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Certificate of Analysis

Report Date: February 24, 2023

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-BRGWC-45	Project:	GPCC00101
Sample ID:	608602003	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-APBCD-EB-04
Sample ID: 608602004
Matrix: WQ
Collect Date: 25-JAN-23 16:30
Receive Date: 26-JAN-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	HXC1	01/26/23	1657	2374768	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Nitrate-N	J	0.0803	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	01/30/23	1235	2375028	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	SKJ	02/07/23	1908	2374786	3
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	SKJ	02/08/23	1801	2374786	4
Arsenic	J	0.00285	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Magnesium	U	ND	0.0100	0.0300	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium	U	ND	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			CH6	02/01/23	1135	2376740	5
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	01/30/23	1542	2374524	6

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-APBCD-EB-04 Project: GPCC00101
Sample ID: 608602004 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	1.45	4.00	mg/L			EK1	02/06/23	1203	2378173	7
Bicarbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	01/27/23	0959	2375027
SW846 3005A	ICP-MS 3005A PREP	LG2	01/27/23	0830	2374785

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	
6	SM 4500-S (2-) D	
7	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-APBCD-FB-01
Sample ID: 608602005
Matrix: WQ
Collect Date: 25-JAN-23 13:05
Receive Date: 26-JAN-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	HXC1	01/26/23	1726	2374768	1
Fluoride	J	0.0641	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	01/30/23	1237	2375028	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	SKJ	02/08/23	1805	2374786	3
Arsenic	J	0.00294	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Magnesium	U	ND	0.0100	0.0300	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium	U	ND	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	SKJ	02/07/23	1912	2374786	4
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			CH6	02/01/23	1135	2376740	5
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	01/30/23	1542	2374524	6

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-APBCD-FB-01 Project: GPCC00101
Sample ID: 608602005 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	1.45	4.00	mg/L			EK1	02/06/23	1209	2378173	7
Bicarbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	01/27/23	0959	2375027
SW846 3005A	ICP-MS 3005A PREP	LG2	01/27/23	0830	2374785

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	
6	SM 4500-S (2-) D	
7	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-BRGWC-50
Sample ID: 608602006
Matrix: WG
Collect Date: 25-JAN-23 13:25
Receive Date: 26-JAN-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		5.18			SU			EOS1	01/25/23	1325	2374720	1
GEL Field Ferrous Iron "As Received"												
Field Ferrous Iron		0			mg/L			EOS1	01/25/23	1325	2374720	2
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		14.7	0.670	2.00	mg/L		10	HXC1	01/27/23	0324	2374768	3
Fluoride		0.432	0.0330	0.100	mg/L		1	HXC1	01/26/23	1756	2374768	4
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate		1290	26.6	80.0	mg/L		200	HXC1	01/27/23	0154	2374768	5
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	01/30/23	1238	2375028	6
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		0.383	0.0260	0.0750	mg/L	1.00	5	SKJ	02/08/23	1819	2374786	7
Calcium		216	0.400	1.00	mg/L	1.00	5					
Cobalt		1.35	0.00150	0.00500	mg/L	1.00	5					
Magnesium		153	0.0500	0.150	mg/L	1.00	5					
Sodium		51.5	0.400	1.25	mg/L	1.00	5					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	SKJ	02/08/23	1928	2374786	8
Arsenic	J	0.00236	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0165	0.000670	0.00400	mg/L	1.00	1					
Cadmium		0.00726	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Iron		0.193	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		10.8	0.0800	0.300	mg/L	1.00	1					
Selenium	J	0.00189	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Manganese		79.6	0.100	0.500	mg/L	1.00	100	SKJ	02/08/23	1816	2374786	9
Beryllium		0.00962	0.000200	0.000500	mg/L	1.00	1	SKJ	02/07/23	1916	2374786	10
Lithium		0.0542	0.00300	0.0100	mg/L	1.00	1					
Solids Analysis												

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-BRGWC-50 Project: GPCC00101
Sample ID: 608602006 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		2040	2.38	10.0	mg/L			CH6	02/01/23	1135	2376740	11
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	01/30/23	1542	2374524	12
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		14.2	1.45	4.00	mg/L			EK1	02/06/23	1212	2378173	13
Bicarbonate alkalinity (CaCO3)		14.2	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	LG2	01/27/23	0830	2374785
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	01/27/23	0959	2375027

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	GEL Field Method	
3	EPA 300.0	
4	EPA 300.0	
5	EPA 300.0	
6	SW846 7470A	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SW846 3005A/6020B	
10	SW846 3005A/6020B	
11	SM 2540C	
12	SM 4500-S (2-) D	
13	SM 2320B	

Notes:

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Certificate of Analysis

Report Date: February 24, 2023

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-BRGWC-50	Project:	GPCC00101
Sample ID:	608602006	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-BRGWC-52I	Project:	GPCC00101
Sample ID:	608602007	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	25-JAN-23 15:10		
Receive Date:	26-JAN-23		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		6.25			SU			EOS1	01/25/23	1510	2374720	1
GEL Field Ferrous Iron "As Received"												
Field Ferrous Iron		1			mg/L			EOS1	01/25/23	1510	2374720	2
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		145	2.66	8.00	mg/L		20	HXC1	01/27/23	0354	2374768	3
Chloride		6.35	0.0670	0.200	mg/L		1	HXC1	01/26/23	1826	2374768	4
Fluoride		0.169	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	01/30/23	1240	2375028	5
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		1.79	0.104	0.300	mg/L	1.00	20	SKJ	02/08/23	1823	2374786	6
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	SKJ	02/07/23	1919	2374786	7
Lithium		0.0186	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.560	0.00100	0.00500	mg/L	1.00	1	SKJ	02/09/23	1113	2374786	8
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	SKJ	02/08/23	1938	2374786	9
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0249	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		36.3	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron		1.34	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Magnesium		19.3	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	J	0.000609	0.000200	0.00100	mg/L	1.00	1					
Potassium		4.97	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		20.7	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-BRGWC-52I
Sample ID: 608602007
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		276	2.38	10.0	mg/L			CH6	02/01/23	1135	2376740	10
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	01/30/23	1541	2375142	11
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		46.0	1.45	4.00	mg/L			EK1	02/06/23	1217	2378173	12
Bicarbonate alkalinity (CaCO3)		46.0	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	LG2	01/27/23	0830	2374785
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	01/27/23	0959	2375027

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	GEL Field Method	
3	EPA 300.0	
4	EPA 300.0	
5	SW846 7470A	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SW846 3005A/6020B	
10	SM 2540C	
11	SM 4500-S (2-) D	
12	SM 2320B	

Notes:

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2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: February 24, 2023

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-BRGWC-52I	Project:	GPCC00101
Sample ID:	608602007	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-BRGWC-27I	Project:	GPCC00101
Sample ID:	608602008	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	25-JAN-23 13:45		
Receive Date:	26-JAN-23		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		5.63			SU			EOS1	01/25/23	1345	2374720	1
GEL Field Ferrous Iron "As Received"												
Field Ferrous Iron		0			mg/L			EOS1	01/25/23	1345	2374720	2
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		3.81	0.0670	0.200	mg/L		1	HXC1	01/26/23	1856	2374768	3
Fluoride		0.152	0.0330	0.100	mg/L		1					
Nitrate-N		0.659	0.0330	0.100	mg/L		1					
Sulfate		150	2.66	8.00	mg/L		20	HXC1	01/27/23	0423	2374768	4
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	01/30/23	1241	2375028	5
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	SKJ	02/08/23	1942	2374786	6
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0166	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00711	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Magnesium		6.59	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		5.89	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		15.5	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		1.14	0.0520	0.150	mg/L	1.00	10	SKJ	02/08/23	1826	2374786	7
Calcium		55.7	0.800	2.00	mg/L	1.00	10					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	SKJ	02/07/23	1923	2374786	8
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.885	0.00100	0.00500	mg/L	1.00	1	SKJ	02/09/23	1115	2374786	9
Solids Analysis												

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Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-BRGWC-27I
Sample ID: 608602008
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		260	2.38	10.0	mg/L			CH6	02/01/23	1135	2376740	10
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	01/30/23	1541	2375142	11
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		31.0	1.45	4.00	mg/L			EK1	02/06/23	1220	2378173	12
Bicarbonate alkalinity (CaCO3)		31.0	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	01/27/23	0959	2375027
SW846 3005A	ICP-MS 3005A PREP	LG2	01/27/23	0830	2374785

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	GEL Field Method	
3	EPA 300.0	
4	EPA 300.0	
5	SW846 7470A	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SW846 3005A/6020B	
10	SM 2540C	
11	SM 4500-S (2-) D	
12	SM 2320B	

Notes:

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Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-BRGWC-27I	Project:	GPCC00101
Sample ID:	608602008	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-BRGWC-25I	Project:	GPCC00101
Sample ID:	608803001	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	26-JAN-23 10:15		
Receive Date:	27-JAN-23		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		6.18			SU			EOS1	01/26/23	1015	2375305	1
GEL Field Ferrous Iron "As Received"												
Field Ferrous Iron		0			mg/L			EOS1	01/26/23	1015	2375305	2
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		6.96	0.0670	0.200	mg/L		1	JLD1	01/27/23	1731	2375330	3
Fluoride		0.202	0.0330	0.100	mg/L		1					
Nitrate-N		1.17	0.165	0.500	mg/L		5	JLD1	01/28/23	0216	2375330	4
Sulfate		182	2.66	8.00	mg/L		20	JLD1	01/28/23	0247	2375330	5
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	01/31/23	1013	2375754	6
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		1.45	0.104	0.300	mg/L	1.00	20	PRB	02/04/23	1942	2375324	7
Calcium		57.6	1.60	4.00	mg/L	1.00	20					
Manganese		1.71	0.0200	0.100	mg/L	1.00	20					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/04/23	2145	2375324	8
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0293	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00320	0.000300	0.00100	mg/L	1.00	1					
Iron		0.453	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		22.7	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	J	0.000920	0.000200	0.00100	mg/L	1.00	1					
Potassium		4.59	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		17.8	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												

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Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-BRGWC-25I
Sample ID: 608803001
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		339	2.38	10.0	mg/L			CH6	02/01/23	1305	2376741	9
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	01/31/23	1657	2375859	10
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		82.8	1.45	4.00	mg/L			EK1	02/06/23	1254	2378066	11
Bicarbonate alkalinity (CaCO3)		82.8	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	01/30/23	1128	2375753
SW846 3005A	ICP-MS 3005A PREP	LG2	01/30/23	0830	2375322

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	GEL Field Method	
3	EPA 300.0	
4	EPA 300.0	
5	EPA 300.0	
6	SW846 7470A	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SM 2540C	
10	SM 4500-S (2-) D	
11	SM 2320B	

Notes:

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Contact:	Joju Abraham
Project:	Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-BRGWC-25I	Project:	GPCC00101
Sample ID:	608803001	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Contact:	Joju Abraham
Project:	Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-BRGWC-29I	Project:	GPCC00101
Sample ID:	608803002	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	26-JAN-23 11:30		
Receive Date:	27-JAN-23		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		4.30			SU			EOS1	01/26/23	1130	2375305	1
GEL Field Ferrous Iron "As Received"												
Field Ferrous Iron		5			mg/L			EOS1	01/26/23	1130	2375305	2
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		5.59	0.0670	0.200	mg/L		1	JLD1	01/27/23	1802	2375330	3
Fluoride	J	0.0935	0.0330	0.100	mg/L		1					
Nitrate-N		0.102	0.0330	0.100	mg/L		1					
Sulfate		293	3.33	10.0	mg/L		25	JLD1	01/28/23	0317	2375330	4
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	01/31/23	1017	2375754	5
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		1.07	0.0520	0.150	mg/L	1.00	10	PRB	02/04/23	1957	2375324	6
Calcium		68.0	0.800	2.00	mg/L	1.00	10					
Manganese		1.43	0.0100	0.0500	mg/L	1.00	10					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/04/23	2203	2375324	7
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0180	0.000670	0.00400	mg/L	1.00	1					
Beryllium		0.00109	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00823	0.000300	0.00100	mg/L	1.00	1					
Iron		23.0	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00331	0.00300	0.0100	mg/L	1.00	1					
Magnesium		8.54	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		10.0	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		17.9	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												

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Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-BRGWC-29I
Sample ID: 608803002
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		419	2.38	10.0	mg/L			CH6	02/01/23	1305	2376741	8
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	01/31/23	1657	2375859	9
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	1.45	4.00	mg/L			EK1	02/06/23	1353	2378066	10
Bicarbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	LG2	01/30/23	0830	2375322
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	01/30/23	1128	2375753

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	GEL Field Method	
3	EPA 300.0	
4	EPA 300.0	
5	SW846 7470A	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 4500-S (2-) D	
10	SM 2320B	

Notes:

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Contact:	Joju Abraham
Project:	Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-BRGWC-29I	Project:	GPCC00101
Sample ID:	608803002	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-BRGWC-30I	Project:	GPCC00101
Sample ID:	608803003	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	26-JAN-23 11:05		
Receive Date:	27-JAN-23		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		6.28			SU			EOS1	01/26/23	1105	2375305	1
GEL Field Ferrous Iron "As Received"												
Field Ferrous Iron		0			mg/L			EOS1	01/26/23	1105	2375305	2
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		3.82	0.0670	0.200	mg/L		1	JLD1	01/27/23	1833	2375330	3
Fluoride		0.167	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate		1030	13.3	40.0	mg/L		100	JLD1	01/28/23	0348	2375330	4
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	01/31/23	1019	2375754	5
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		2.17	0.104	0.300	mg/L	1.00	20	PRB	02/04/23	2000	2375324	6
Calcium		361	1.60	4.00	mg/L	1.00	20					
Magnesium		64.4	0.200	0.600	mg/L	1.00	20					
Manganese		1.22	0.0200	0.100	mg/L	1.00	20					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/04/23	2207	2375324	7
Arsenic	J	0.00208	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0397	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00158	0.000300	0.00100	mg/L	1.00	1					
Iron		2.33	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0279	0.00300	0.0100	mg/L	1.00	1					
Molybdenum		0.00140	0.000200	0.00100	mg/L	1.00	1					
Potassium		6.54	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		32.4	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												

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Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-BRGWC-30I
Sample ID: 608803003
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1680	2.38	10.0	mg/L			CH6	02/01/23	1305	2376741	8
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	01/31/23	1657	2375859	9
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		131	1.45	4.00	mg/L			EK1	02/06/23	1356	2378066	10
Bicarbonate alkalinity (CaCO3)		131	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	01/30/23	1128	2375753
SW846 3005A	ICP-MS 3005A PREP	LG2	01/30/23	0830	2375322

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	GEL Field Method	
3	EPA 300.0	
4	EPA 300.0	
5	SW846 7470A	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 4500-S (2-) D	
10	SM 2320B	

Notes:

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Certificate of Analysis

Report Date: February 24, 2023

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-BRGWC-30I	Project:	GPCC00101
Sample ID:	608803003	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-APBCD-EB-05
Sample ID: 608803004
Matrix: WQ
Collect Date: 26-JAN-23 16:10
Receive Date: 27-JAN-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	JLD1	01/27/23	1904	2375330	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	01/31/23	1027	2375754	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/04/23	2004	2375324	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron	J	0.00620	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium	U	ND	0.0100	0.0300	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium	U	ND	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			CH6	02/01/23	1305	2376741	4
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	01/31/23	1657	2375859	5

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-APBCD-EB-05 Project: GPCC00101
Sample ID: 608803004 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	J	1.60	1.45	4.00	mg/L			EK1	02/06/23	1358	2378066	6
Bicarbonate alkalinity (CaCO3)	J	1.60	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	LG2	01/30/23	0830	2375322
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	01/30/23	1128	2375753

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SM 2540C	
5	SM 4500-S (2-) D	
6	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-APBCD-FB-02
Sample ID: 608803005
Matrix: WQ
Collect Date: 26-JAN-23 14:25
Receive Date: 27-JAN-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	J	0.165	0.0670	0.200	mg/L		1	JLD1	01/27/23	1935	2375330	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	01/31/23	1029	2375754	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/04/23	2008	2375324	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium	U	ND	0.0100	0.0300	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium	U	ND	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			CH6	02/01/23	1305	2376741	4
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	01/31/23	1657	2375859	5

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-APBCD-FB-02 Project: GPCC00101
Sample ID: 608803005 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	1.45	4.00	mg/L			EK1	02/06/23	1401	2378066	6
Bicarbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	01/30/23	1128	2375753
SW846 3005A	ICP-MS 3005A PREP	LG2	01/30/23	0830	2375322

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SM 2540C	
5	SM 4500-S (2-) D	
6	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-PZ-51I
Sample ID: 608803006
Matrix: WG
Collect Date: 26-JAN-23 12:00
Receive Date: 27-JAN-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		5.44			SU			EOS1	01/26/23	1200	2375305	1
GEL Field Ferrous Iron "As Received"												
Field Ferrous Iron		0			mg/L			EOS1	01/26/23	1200	2375305	2
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		1150	13.3	40.0	mg/L		100	JLD1	01/28/23	0552	2375330	3
Fluoride		0.120	0.0330	0.100	mg/L		1	JLD1	01/27/23	2006	2375330	4
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Chloride		9.50	0.134	0.400	mg/L		2	JLD1	01/28/23	0419	2375330	5
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	01/31/23	1031	2375754	6
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		0.445	0.0520	0.150	mg/L	1.00	10	PRB	02/04/23	2018	2375324	7
Calcium		198	0.800	2.00	mg/L	1.00	10					
Magnesium		131	0.100	0.300	mg/L	1.00	10					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/04/23	2210	2375324	8
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0152	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium		0.00101	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.0231	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0951	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0247	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	J	0.000283	0.000200	0.00100	mg/L	1.00	1					
Potassium		11.5	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		47.9	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Manganese		47.7	0.100	0.500	mg/L	1.00	100	PRB	02/04/23	2022	2375324	9
Solids Analysis												

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-PZ-51I
Sample ID: 608803006
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1750	2.38	10.0	mg/L			CH6	02/01/23	1305	2376741	10
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	01/31/23	1657	2375859	11
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		23.2	1.45	4.00	mg/L			EK1	02/06/23	1403	2378066	12
Bicarbonate alkalinity (CaCO3)		23.2	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	01/30/23	1128	2375753
SW846 3005A	ICP-MS 3005A PREP	LG2	01/30/23	0830	2375322

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	GEL Field Method	
3	EPA 300.0	
4	EPA 300.0	
5	EPA 300.0	
6	SW846 7470A	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SW846 3005A/6020B	
10	SM 2540C	
11	SM 4500-S (2-) D	
12	SM 2320B	

Notes:

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Certificate of Analysis

Report Date: February 24, 2023

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-PZ-51I	Project:	GPCC00101
Sample ID:	608803006	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-APBCD-FD-02
Sample ID: 608803007
Matrix: WG
Collect Date: 26-JAN-23 12:00
Receive Date: 27-JAN-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		11.8	0.335	1.00	mg/L		5	JLD1	01/28/23	0623	2375330	1
Fluoride		1.13	0.0330	0.100	mg/L		1	JLD1	01/27/23	2036	2375330	2
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate		954	13.3	40.0	mg/L		100	JLD1	01/28/23	0653	2375330	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	01/31/23	1032	2375754	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Manganese		30.8	0.100	0.500	mg/L	1.00	100	PRB	02/04/23	2029	2375324	5
Boron		0.447	0.0520	0.150	mg/L	1.00	10	PRB	02/04/23	2026	2375324	6
Calcium		150	0.800	2.00	mg/L	1.00	10					
Magnesium		86.4	0.100	0.300	mg/L	1.00	10					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/04/23	2225	2375324	7
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0169	0.000670	0.00400	mg/L	1.00	1					
Beryllium		0.0378	0.000200	0.000500	mg/L	1.00	1					
Cadmium		0.00429	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.522	0.000300	0.00100	mg/L	1.00	1					
Iron		48.3	0.0330	0.100	mg/L	1.00	1					
Lead	J	0.000896	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0547	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		8.63	0.0800	0.300	mg/L	1.00	1					
Selenium	J	0.00278	0.00150	0.00500	mg/L	1.00	1					
Sodium		36.8	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1410	2.38	10.0	mg/L			CH6	02/01/23	1305	2376741	8
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	01/31/23	1657	2375859	9

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-APBCD-FD-02 Project: GPCC00101
Sample ID: 608803007 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	1.45	4.00	mg/L			EK1	02/06/23	1406	2378066	10
Bicarbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	01/30/23	1128	2375753
SW846 3005A	ICP-MS 3005A PREP	LG2	01/30/23	0830	2375322

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 4500-S (2-) D	
10	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-BRGWC-47
Sample ID: 608803008
Matrix: WG
Collect Date: 26-JAN-23 13:33
Receive Date: 27-JAN-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		5.65			SU			EOS1	01/26/23	1333	2375305	1
GEL Field Ferrous Iron "As Received"												
Field Ferrous Iron		0			mg/L			EOS1	01/26/23	1333	2375305	2
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		4.96	0.0670	0.200	mg/L		1	JLD1	01/27/23	1713	2375336	3
Fluoride		0.117	0.0330	0.100	mg/L		1					
Nitrate-N	J	0.0735	0.0330	0.100	mg/L		1					
Sulfate		1310	26.6	80.0	mg/L		200	JLD1	01/28/23	0055	2375336	4
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	01/31/23	1037	2375754	5
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Manganese		0.0154	0.00100	0.00500	mg/L	1.00	1	PRB	02/05/23	1045	2375324	6
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/04/23	2228	2375324	7
Arsenic	J	0.00240	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0311	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000376	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0949	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0506	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	J	0.000270	0.000200	0.00100	mg/L	1.00	1					
Potassium		12.6	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		46.0	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.661	0.0520	0.150	mg/L	1.00	10	PRB	02/04/23	2033	2375324	8
Calcium		331	0.800	2.00	mg/L	1.00	10					
Magnesium		123	0.100	0.300	mg/L	1.00	10					
Solids Analysis												

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Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-BRGWC-47 Project: GPCC00101
Sample ID: 608803008 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		2010	2.38	10.0	mg/L			CH6	02/01/23	1305	2376741	9
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	01/31/23	1657	2375859	10
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		25.6	1.45	4.00	mg/L			EK1	02/06/23	1408	2378066	11
Bicarbonate alkalinity (CaCO3)		25.6	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	01/30/23	1128	2375753
SW846 3005A	ICP-MS 3005A PREP	LG2	01/30/23	0830	2375322

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	GEL Field Method	
3	EPA 300.0	
4	EPA 300.0	
5	SW846 7470A	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SM 2540C	
10	SM 4500-S (2-) D	
11	SM 2320B	

Notes:

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Report Date: February 24, 2023

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-BRGWC-47	Project:	GPCC00101
Sample ID:	608803008	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-PZ-51D
Sample ID: 608803009
Matrix: WG
Collect Date: 26-JAN-23 09:50
Receive Date: 27-JAN-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		7.20			SU			EOS1	01/26/23	0950	2375305	1
GEL Field Ferrous Iron "As Received"												
Field Ferrous Iron		1			mg/L			EOS1	01/26/23	0950	2375305	2
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		0.354	0.0330	0.100	mg/L		1	JLD1	01/27/23	1743	2375336	3
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Chloride		21.8	2.68	8.00	mg/L		40	JLD1	01/28/23	0126	2375336	4
Sulfate		370	5.32	16.0	mg/L		40					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	01/31/23	1039	2375754	5
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		0.0397	0.00520	0.0150	mg/L	1.00	1	PRB	02/05/23	1030	2375324	6
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/04/23	2232	2375324	7
Arsenic	J	0.00275	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0481	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron		1.59	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00883	0.00300	0.0100	mg/L	1.00	1					
Magnesium		29.5	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	J	0.000850	0.000200	0.00100	mg/L	1.00	1					
Potassium		12.4	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Calcium		119	0.800	2.00	mg/L	1.00	10	PRB	02/04/23	2037	2375324	8
Manganese		1.16	0.0100	0.0500	mg/L	1.00	10					
Sodium		47.7	0.800	2.50	mg/L	1.00	10					
Solids Analysis												

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Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-PZ-51D
Sample ID: 608803009
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		693	2.38	10.0	mg/L			CH6	02/01/23	1305	2376741	9
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	01/31/23	1657	2375859	10
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		128	1.45	4.00	mg/L			EK1	02/06/23	1415	2378066	11
Bicarbonate alkalinity (CaCO3)		128	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	LG2	01/30/23	0830	2375322
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	01/30/23	1128	2375753

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	GEL Field Method	
3	EPA 300.0	
4	EPA 300.0	
5	SW846 7470A	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SM 2540C	
10	SM 4500-S (2-) D	
11	SM 2320B	

Notes:

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Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-PZ-51D	Project:	GPCC00101
Sample ID:	608803009	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-PZ-58I
Sample ID: 608803010
Matrix: WG
Collect Date: 26-JAN-23 15:00
Receive Date: 27-JAN-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		3.93			SU			EOS1	01/26/23	1500	2375305	1
GEL Field Ferrous Iron "As Received"												
Field Ferrous Iron		4			mg/L			EOS1	01/26/23	1500	2375305	2
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		1070	13.3	40.0	mg/L		100	JLD1	01/28/23	0227	2375336	3
Chloride		12.1	0.134	0.400	mg/L		2	JLD1	01/28/23	0157	2375336	4
Fluoride		1.19	0.0330	0.100	mg/L		1	JLD1	01/27/23	1814	2375336	5
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	01/31/23	1040	2375754	6
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		0.440	0.0520	0.150	mg/L	1.00	10	PRB	02/04/23	2047	2375324	7
Calcium		151	0.800	2.00	mg/L	1.00	10					
Magnesium		86.3	0.100	0.300	mg/L	1.00	10					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/04/23	2236	2375324	8
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0167	0.000670	0.00400	mg/L	1.00	1					
Beryllium		0.0377	0.000200	0.000500	mg/L	1.00	1					
Cadmium		0.00435	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.518	0.000300	0.00100	mg/L	1.00	1					
Iron		47.6	0.0330	0.100	mg/L	1.00	1					
Lead	J	0.000895	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0553	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		8.64	0.0800	0.300	mg/L	1.00	1					
Selenium	J	0.00265	0.00150	0.00500	mg/L	1.00	1					
Sodium		36.2	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Manganese		30.0	0.100	0.500	mg/L	1.00	100	PRB	02/04/23	2051	2375324	9
Solids Analysis												

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Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-PZ-58I
Sample ID: 608803010
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1440	2.38	10.0	mg/L			CH6	02/01/23	1305	2376741	10
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	01/31/23	1657	2375859	11
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	1.45	4.00	mg/L			EK1	02/06/23	1418	2378066	12
Bicarbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	01/30/23	1128	2375753
SW846 3005A	ICP-MS 3005A PREP	LG2	01/30/23	0830	2375322

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	GEL Field Method	
3	EPA 300.0	
4	EPA 300.0	
5	EPA 300.0	
6	SW846 7470A	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SW846 3005A/6020B	
10	SM 2540C	
11	SM 4500-S (2-) D	
12	SM 2320B	

Notes:

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Contact:	Joju Abraham
Project:	Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-PZ-58I	Project:	GPCC00101
Sample ID:	608803010	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-PZ-59I
Sample ID: 608803011
Matrix: WG
Collect Date: 26-JAN-23 13:17
Receive Date: 27-JAN-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		3.78			SU			EOS1	01/26/23	1317	2375305	1
GEL Field Ferrous Iron "As Received"												
Field Ferrous Iron		6.5			mg/L			EOS1	01/26/23	1317	2375305	2
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		41.4	0.670	2.00	mg/L		10	JLD1	01/28/23	0258	2375336	3
Fluoride		2.83	0.330	1.00	mg/L		10					
Nitrate-N	U	ND	0.330	1.00	mg/L		10					
Sulfate		4000	66.5	200	mg/L		500	JLD1	01/28/23	0329	2375336	4
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	01/31/23	1042	2375754	5
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Calcium		278	8.00	20.0	mg/L	1.00	100	PRB	02/04/23	2058	2375324	6
Iron		446	3.30	10.0	mg/L	1.00	100					
Manganese		91.8	0.100	0.500	mg/L	1.00	100					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/04/23	2239	2375324	7
Arsenic		0.0237	0.00200	0.00500	mg/L	1.00	1					
Beryllium		0.115	0.000200	0.000500	mg/L	1.00	1					
Cadmium		0.00531	0.000300	0.00100	mg/L	1.00	1					
Chromium	J	0.00311	0.00300	0.0100	mg/L	1.00	1					
Lithium		0.200	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		18.6	0.0800	0.300	mg/L	1.00	1					
Selenium		0.104	0.00150	0.00500	mg/L	1.00	1					
Barium	J	0.0132	0.00335	0.0200	mg/L	1.00	5	PRB	02/04/23	2055	2375324	8
Cobalt		1.86	0.00150	0.00500	mg/L	1.00	5					
Lead	U	ND	0.00250	0.0100	mg/L	1.00	5					
Magnesium		193	0.0500	0.150	mg/L	1.00	5					
Sodium		98.6	0.400	1.25	mg/L	1.00	5					
Thallium	U	ND	0.00300	0.0100	mg/L	1.00	5					
Boron		0.0543	0.00520	0.0150	mg/L	1.00	1	PRB	02/05/23	1032	2375324	9
Solids Analysis												

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Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-PZ-59I
Sample ID: 608803011
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		4330	2.38	10.0	mg/L			CH6	02/01/23	1305	2376741	10
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	02/02/23	1144	2376122	11
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	1.45	4.00	mg/L			EK1	02/06/23	1449	2378067	12
Bicarbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	LG2	01/30/23	0830	2375322
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	01/30/23	1128	2375753

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	GEL Field Method	
3	EPA 300.0	
4	EPA 300.0	
5	SW846 7470A	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SW846 3005A/6020B	
10	SM 2540C	
11	SM 4500-S (2-) D	
12	SM 2320B	

Notes:

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Certificate of Analysis

Report Date: February 24, 2023

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-PZ-59I	Project:	GPCC00101
Sample ID:	608803011	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-PZ-60I
Sample ID: 608803012
Matrix: WG
Collect Date: 26-JAN-23 15:05
Receive Date: 27-JAN-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		4.60			SU			EOS1	01/26/23	1505	2375305	1
GEL Field Ferrous Iron "As Received"												
Field Ferrous Iron		0.5			mg/L			EOS1	01/26/23	1505	2375305	2
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		28.3	0.335	1.00	mg/L		5	JLD1	01/28/23	0400	2375336	3
Sulfate		1970	26.6	80.0	mg/L		200	JLD1	01/28/23	0431	2375336	4
Fluoride		1.66	0.0330	0.100	mg/L		1	JLD1	01/27/23	1916	2375336	5
Nitrate-N		0.512	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	01/31/23	1044	2375754	6
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		0.288	0.0520	0.150	mg/L	1.00	10	PRB	02/04/23	2102	2375324	7
Calcium		284	0.800	2.00	mg/L	1.00	10					
Cobalt		3.64	0.00300	0.0100	mg/L	1.00	10					
Magnesium		190	0.100	0.300	mg/L	1.00	10					
Sodium		62.3	0.800	2.50	mg/L	1.00	10					
Manganese		188	1.00	5.00	mg/L	1.00	1000	PRB	02/04/23	2105	2375324	8
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/04/23	2243	2375324	9
Arsenic	J	0.00204	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0218	0.000670	0.00400	mg/L	1.00	1					
Beryllium		0.0782	0.000200	0.000500	mg/L	1.00	1					
Cadmium		0.0152	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Iron		0.663	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.114	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		14.5	0.0800	0.300	mg/L	1.00	1					
Selenium	J	0.00310	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-PZ-60I
Sample ID: 608803012
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		2880	2.38	10.0	mg/L			CH6	02/01/23	1305	2376741	10
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	02/02/23	1144	2376122	11
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		6.00	1.45	4.00	mg/L			EK1	02/06/23	1453	2378067	12
Bicarbonate alkalinity (CaCO3)		6.00	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	LG2	01/30/23	0830	2375322
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	01/30/23	1128	2375753

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	GEL Field Method	
3	EPA 300.0	
4	EPA 300.0	
5	EPA 300.0	
6	SW846 7470A	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SW846 3005A/6020B	
10	SM 2540C	
11	SM 4500-S (2-) D	
12	SM 2320B	

Notes:

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Certificate of Analysis

Report Date: February 24, 2023

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-PZ-60I	Project:	GPCC00101
Sample ID:	608803012	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-PZ-61I	Project:	GPCC00101
Sample ID:	608803013	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	26-JAN-23 14:10		
Receive Date:	27-JAN-23		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		5.16			SU			EOS1	01/26/23	1410	2375305	1
GEL Field Ferrous Iron "As Received"												
Field Ferrous Iron		0.5			mg/L			EOS1	01/26/23	1410	2375305	2
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		0.184	0.0330	0.100	mg/L		1	JLD1	01/27/23	1947	2375336	3
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate		1490	26.6	80.0	mg/L		200	JLD1	01/28/23	0634	2375336	4
Chloride		17.0	0.335	1.00	mg/L		5	JLD1	01/28/23	0603	2375336	5
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	01/31/23	1045	2375754	6
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Manganese		111	1.00	5.00	mg/L	1.00	1000	PRB	02/04/23	2120	2375324	7
Boron		0.353	0.0520	0.150	mg/L	1.00	10	PRB	02/04/23	2116	2375324	8
Calcium		214	0.800	2.00	mg/L	1.00	10					
Magnesium		170	0.100	0.300	mg/L	1.00	10					
Sodium		59.6	0.800	2.50	mg/L	1.00	10					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/04/23	2246	2375324	9
Arsenic	J	0.00225	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0125	0.000670	0.00400	mg/L	1.00	1					
Beryllium		0.00164	0.000200	0.000500	mg/L	1.00	1					
Cadmium	J	0.000517	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.604	0.000300	0.00100	mg/L	1.00	1					
Iron		0.651	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0123	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		7.32	0.0800	0.300	mg/L	1.00	1					
Selenium	J	0.00321	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												

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Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-PZ-61I
Sample ID: 608803013
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		2280	2.38	10.0	mg/L			CH6	02/02/23	1428	2377347	10
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	02/02/23	1144	2376122	11
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		16.0	1.45	4.00	mg/L			EK1	02/06/23	1510	2378067	12
Bicarbonate alkalinity (CaCO3)		16.0	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	01/30/23	1128	2375753
SW846 3005A	ICP-MS 3005A PREP	LG2	01/30/23	0830	2375322

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	GEL Field Method	
3	EPA 300.0	
4	EPA 300.0	
5	EPA 300.0	
6	SW846 7470A	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SW846 3005A/6020B	
10	SM 2540C	
11	SM 4500-S (2-) D	
12	SM 2320B	

Notes:

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Certificate of Analysis

Report Date: February 24, 2023

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-PZ-61I	Project:	GPCC00101
Sample ID:	608803013	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-PZ-65I	Project:	GPCC00101
Sample ID:	608803014	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	26-JAN-23 16:45		
Receive Date:	27-JAN-23		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		4.06			SU			EOS1	01/26/23	1645	2375305	1
GEL Field Ferrous Iron "As Received"												
Field Ferrous Iron		6			mg/L			EOS1	01/26/23	1645	2375305	2
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		26.5	0.335	1.00	mg/L		5	JLD1	01/28/23	0705	2375336	3
Nitrate-N	U	ND	0.165	0.500	mg/L		5					
Sulfate		3160	26.6	80.0	mg/L		200	JLD1	01/28/23	0736	2375336	4
Fluoride		1.08	0.0330	0.100	mg/L		1	JLD1	01/27/23	2018	2375336	5
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	01/31/23	1047	2375754	6
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Calcium		235	0.800	2.00	mg/L	1.00	10	PRB	02/04/23	2124	2375324	7
Iron		320	0.330	1.00	mg/L	1.00	10					
Magnesium		217	0.100	0.300	mg/L	1.00	10					
Sodium		73.0	0.800	2.50	mg/L	1.00	10					
Manganese		48.1	0.100	0.500	mg/L	1.00	100	PRB	02/04/23	2127	2375324	8
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/04/23	2250	2375324	9
Arsenic		0.00926	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0103	0.000670	0.00400	mg/L	1.00	1					
Beryllium		0.0179	0.000200	0.000500	mg/L	1.00	1					
Cadmium		0.00119	0.000300	0.00100	mg/L	1.00	1					
Chromium	J	0.00352	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.405	0.000300	0.00100	mg/L	1.00	1					
Lead	J	0.00133	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0791	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		11.3	0.0800	0.300	mg/L	1.00	1					
Selenium		0.0212	0.00150	0.00500	mg/L	1.00	1					
Thallium	J	0.000773	0.000600	0.00200	mg/L	1.00	1					
Boron		0.0322	0.00520	0.0150	mg/L	1.00	1	PRB	02/05/23	1034	2375324	10
Solids Analysis												

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-PZ-65I
Sample ID: 608803014
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		3770	2.38	10.0	mg/L			CH6	02/02/23	1428	2377347	11
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	02/02/23	1145	2376122	12
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	1.45	4.00	mg/L			EK1	02/06/23	1513	2378067	13
Bicarbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	01/30/23	1128	2375753
SW846 3005A	ICP-MS 3005A PREP	LG2	01/30/23	0830	2375322

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	GEL Field Method	
3	EPA 300.0	
4	EPA 300.0	
5	EPA 300.0	
6	SW846 7470A	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SW846 3005A/6020B	
10	SW846 3005A/6020B	
11	SM 2540C	
12	SM 4500-S (2-) D	
13	SM 2320B	

Notes:

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Certificate of Analysis

Report Date: February 24, 2023

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-PZ-65I	Project:	GPCC00101
Sample ID:	608803014	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-PZ-50D
Sample ID: 608803015
Matrix: WG
Collect Date: 27-JAN-23 08:40
Receive Date: 27-JAN-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		6.24			SU			EOS1	01/27/23	0840	2375305	1
GEL Field Ferrous Iron "As Received"												
Field Ferrous Iron		4.5			mg/L			EOS1	01/27/23	0840	2375305	2
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		11.5	0.134	0.400	mg/L		2	JLD1	01/28/23	0807	2375336	3
Fluoride	J	0.151	0.0660	0.200	mg/L		2					
Sulfate		885	13.3	40.0	mg/L		100	JLD1	01/28/23	0939	2375336	4
Nitrate-N	U	ND	0.0330	0.100	mg/L		1	JLD1	01/27/23	2049	2375336	5
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	01/31/23	1049	2375754	6
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		0.277	0.0520	0.150	mg/L	1.00	10	PRB	02/04/23	2131	2375324	7
Calcium		214	0.800	2.00	mg/L	1.00	10					
Magnesium		86.4	0.100	0.300	mg/L	1.00	10					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/04/23	2254	2375324	8
Arsenic	J	0.00215	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0315	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.0728	0.000300	0.00100	mg/L	1.00	1					
Iron		4.96	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0274	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	J	0.000817	0.000200	0.00100	mg/L	1.00	1					
Potassium		13.2	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		47.7	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Manganese		10.1	0.100	0.500	mg/L	1.00	100	PRB	02/04/23	2134	2375324	9
Solids Analysis												

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-PZ-50D
Sample ID: 608803015
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1400	2.38	10.0	mg/L			CH6	02/02/23	1428	2377347	10
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	02/02/23	1145	2376122	11
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		78.8	1.45	4.00	mg/L			EK1	02/06/23	1517	2378067	12
Bicarbonate alkalinity (CaCO3)		78.8	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	01/30/23	1128	2375753
SW846 3005A	ICP-MS 3005A PREP	LG2	01/30/23	0830	2375322

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	GEL Field Method	
3	EPA 300.0	
4	EPA 300.0	
5	EPA 300.0	
6	SW846 7470A	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SW846 3005A/6020B	
10	SM 2540C	
11	SM 4500-S (2-) D	
12	SM 2320B	

Notes:

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Certificate of Analysis

Report Date: February 24, 2023

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-PZ-50D	Project:	GPCC00101
Sample ID:	608803015	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-PZ-66I
Sample ID: 608969001
Matrix: WG
Collect Date: 30-JAN-23 14:20
Receive Date: 31-JAN-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		5.64			SU			EOS1	01/30/23	1420	2376217	1
GEL Field Ferrous Iron "As Received"												
Field Ferrous Iron		6			mg/L			EOS1	01/30/23	1420	2376217	2
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		2060	26.6	80.0	mg/L		200	JLD1	01/31/23	2021	2376273	3
Fluoride	J	0.0574	0.0330	0.100	mg/L		1	JLD1	01/31/23	1103	2376273	4
Nitrate-N	J	0.0461	0.0330	0.100	mg/L		1					
Chloride		10.2	0.335	1.00	mg/L		5	JLD1	01/31/23	2052	2376273	5
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/02/23	0946	2376750	6
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	SKJ	02/09/23	1952	2376276	7
Barium		0.0284	0.000670	0.00400	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.345	0.000300	0.00100	mg/L	1.00	1					
Iron		17.8	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0131	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	J	0.000675	0.000200	0.00100	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Calcium		217	0.800	2.00	mg/L	1.00	10	SKJ	02/10/23	1637	2376276	8
Sodium		62.9	0.800	2.50	mg/L	1.00	10					
Boron		0.128	0.00520	0.0150	mg/L	1.00	1	PRB	02/14/23	0953	2376276	9
Magnesium		303	0.100	0.300	mg/L	1.00	10	SKJ	02/14/23	0814	2376276	10
Arsenic		0.00565	0.00200	0.00500	mg/L	1.00	1	SKJ	02/10/23	1723	2376276	11
Beryllium	J	0.000318	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Potassium		10.8	0.0800	0.300	mg/L	1.00	1					
Selenium		0.00817	0.00150	0.00500	mg/L	1.00	1					
Manganese		109	0.500	2.50	mg/L	1.00	500	SKJ	02/10/23	1549	2376276	12
Solids Analysis												

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-PZ-66I
Sample ID: 608969001
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		2890	2.38	10.0	mg/L			CH6	02/02/23	1428	2377347	13
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	02/06/23	1553	2377896	14
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		62.4	1.45	4.00	mg/L			EK1	02/10/23	1513	2382211	15
Bicarbonate alkalinity (CaCO3)		62.4	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	02/01/23	1154	2376749
SW846 3005A	ICP-MS 3005A PREP	EM2	01/31/23	1540	2376275

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	GEL Field Method	
3	EPA 300.0	
4	EPA 300.0	
5	EPA 300.0	
6	SW846 7470A	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SW846 3005A/6020B	
10	SW846 3005A/6020B	
11	SW846 3005A/6020B	
12	SW846 3005A/6020B	
13	SM 2540C	
14	SM 4500-S (2-) D	
15	SM 2320B	

Notes:

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Certificate of Analysis

Report Date: February 24, 2023

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-PZ-66I	Project:	GPCC00101
Sample ID:	608969001	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-APBCD-FB-03
Sample ID: 608969002
Matrix: WQ
Collect Date: 30-JAN-23 13:50
Receive Date: 31-JAN-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		0.204	0.0670	0.200	mg/L		1	JLD1	01/31/23	1950	2376273	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/02/23	0948	2376750	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1	PRB	02/14/23	1006	2376276	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1	SKJ	02/10/23	1600	2376276	4
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	SKJ	02/09/23	2010	2376276	5
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.0170	0.00100	0.00500	mg/L	1.00	1					
Molybdenum		0.00113	0.000200	0.00100	mg/L	1.00	1					
Sodium	U	ND	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Magnesium	U	ND	0.0100	0.0300	mg/L	1.00	1	SKJ	02/14/23	0757	2376276	6
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			CH6	02/02/23	1428	2377347	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	02/06/23	1554	2377896	8

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-APBCD-FB-03 Project: GPCC00101
Sample ID: 608969002 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	J	1.80	1.45	4.00	mg/L			EK1	02/10/23	1525	2382211	9
Bicarbonate alkalinity (CaCO3)	J	1.80	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	02/01/23	1154	2376749
SW846 3005A	ICP-MS 3005A PREP	EM2	01/31/23	1540	2376275

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 4500-S (2-) D	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-APBCD-EB-06
Sample ID: 608969003
Matrix: WQ
Collect Date: 30-JAN-23 15:15
Receive Date: 31-JAN-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		0.667	0.0670	0.200	mg/L		1	JLD1	01/31/23	1204	2376273	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/02/23	0950	2376750	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1	SKJ	02/10/23	1603	2376276	3
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	SKJ	02/09/23	2021	2376276	4
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Manganese	J	0.00112	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Sodium	U	ND	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1	PRB	02/14/23	1008	2376276	5
Magnesium	U	ND	0.0100	0.0300	mg/L	1.00	1	SKJ	02/14/23	0759	2376276	6
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			CH6	02/02/23	1428	2377347	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	02/06/23	1554	2377896	8

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-APBCD-EB-06 Project: GPCC00101
Sample ID: 608969003 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	J	1.80	1.45	4.00	mg/L			EK1	02/10/23	1530	2382211	9
Bicarbonate alkalinity (CaCO3)	J	1.80	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	EM2	01/31/23	1540	2376275
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	02/01/23	1154	2376749

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 4500-S (2-) D	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-PZ-57I	Project:	GPCC00101
Sample ID:	608969004	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	30-JAN-23 14:25		
Receive Date:	31-JAN-23		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		5.39			SU			EOS1	01/30/23	1425	2376217	1
GEL Field Ferrous Iron "As Received"												
Field Ferrous Iron		1			mg/L			EOS1	01/30/23	1425	2376217	2
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		9.46	0.0670	0.200	mg/L		1	JLD1	01/31/23	1235	2376273	3
Fluoride		0.297	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate		618	26.6	80.0	mg/L		200	JLD1	01/31/23	2154	2376273	4
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/02/23	0951	2376750	5
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Calcium		102	0.400	1.00	mg/L	1.00	5	SKJ	02/10/23	1649	2376276	6
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1	SKJ	02/10/23	1743	2376276	7
Beryllium		0.000787	0.000200	0.000500	mg/L	1.00	1					
Potassium		6.19	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Magnesium		64.6	0.0500	0.150	mg/L	1.00	5	SKJ	02/14/23	0827	2376276	8
Boron		0.554	0.0260	0.0750	mg/L	1.00	5	PRB	02/14/23	1010	2376276	9
Manganese		27.9	0.100	0.500	mg/L	1.00	100	SKJ	02/10/23	1612	2376276	10
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	SKJ	02/09/23	2024	2376276	11
Barium		0.0220	0.000670	0.00400	mg/L	1.00	1					
Cadmium		0.00132	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.151	0.000300	0.00100	mg/L	1.00	1					
Iron		0.588	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0359	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Sodium		23.2	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-PZ-57I
Sample ID: 608969004
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		898	2.38	10.0	mg/L			CH6	02/02/23	1428	2377347	12
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	02/06/23	1555	2377896	13
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		13.2	1.45	4.00	mg/L			EK1	02/10/23	1531	2382211	14
Bicarbonate alkalinity (CaCO3)		13.2	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	02/01/23	1154	2376749
SW846 3005A	ICP-MS 3005A PREP	EM2	01/31/23	1540	2376275

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	GEL Field Method	
3	EPA 300.0	
4	EPA 300.0	
5	SW846 7470A	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SW846 3005A/6020B	
10	SW846 3005A/6020B	
11	SW846 3005A/6020B	
12	SM 2540C	
13	SM 4500-S (2-) D	
14	SM 2320B	

Notes:

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Certificate of Analysis

Report Date: February 24, 2023

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-PZ-57I	Project:	GPCC00101
Sample ID:	608969004	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-APBCD-FD03
Sample ID: 608969005
Matrix: WG
Collect Date: 30-JAN-23 12:00
Receive Date: 31-JAN-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	U	ND	0.0330	0.100	mg/L		1	JLD1	01/31/23	1306	2376273	1
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate		717	26.6	80.0	mg/L		200	JLD1	01/31/23	2225	2376273	2
Chloride		9.86	0.335	1.00	mg/L		5	JLD1	01/31/23	2256	2376273	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/02/23	0957	2376750	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	SKJ	02/09/23	2028	2376276	5
Barium		0.0232	0.000670	0.00400	mg/L	1.00	1					
Cadmium		0.00114	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.440	0.000300	0.00100	mg/L	1.00	1					
Iron		0.534	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00711	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	J	0.000251	0.000200	0.00100	mg/L	1.00	1					
Sodium		29.2	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Calcium		124	0.400	1.00	mg/L	1.00	5	SKJ	02/10/23	1651	2376276	6
Manganese		33.0	0.100	0.500	mg/L	1.00	100	SKJ	02/10/23	1614	2376276	7
Arsenic	J	0.00201	0.00200	0.00500	mg/L	1.00	1	SKJ	02/10/23	1746	2376276	8
Beryllium	J	0.000291	0.000200	0.000500	mg/L	1.00	1					
Potassium		10.4	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Magnesium		72.7	0.0500	0.150	mg/L	1.00	5	SKJ	02/14/23	0829	2376276	9
Boron		0.585	0.0260	0.0750	mg/L	1.00	5	PRB	02/14/23	1011	2376276	10
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1010	2.38	10.0	mg/L			CH6	02/02/23	1428	2377347	11
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	02/02/23	1148	2376122	12

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-APBCD-FD03 Project: GPCC00101
Sample ID: 608969005 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		16.8	1.45	4.00	mg/L			EK1	02/10/23	1533	2382211	13
Bicarbonate alkalinity (CaCO3)		16.8	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	02/01/23	1154	2376749
SW846 3005A	ICP-MS 3005A PREP	EM2	01/31/23	1540	2376275

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SW846 3005A/6020B	
10	SW846 3005A/6020B	
11	SM 2540C	
12	SM 4500-S (2-) D	
13	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-PZ-63I
Sample ID: 608969006
Matrix: WG
Collect Date: 30-JAN-23 13:40
Receive Date: 31-JAN-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		5.66			SU			EOS1	01/30/23	1340	2376217	1
GEL Field Ferrous Iron "As Received"												
Field Ferrous Iron		1			mg/L			EOS1	01/30/23	1340	2376217	2
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		280	3.33	10.0	mg/L		25	JLD1	02/01/23	0028	2376273	3
Chloride		7.18	0.0670	0.200	mg/L		1	JLD1	01/31/23	1337	2376273	4
Fluoride		0.230	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/02/23	0958	2376750	5
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1	SKJ	02/10/23	1749	2376276	6
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Potassium		7.95	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Manganese		6.47	0.0100	0.0500	mg/L	1.00	10	SKJ	02/10/23	1617	2376276	7
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	SKJ	02/09/23	2032	2376276	8
Barium		0.0220	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		49.8	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.0280	0.000300	0.00100	mg/L	1.00	1					
Iron		0.991	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00660	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	J	0.000803	0.000200	0.00100	mg/L	1.00	1					
Sodium		18.0	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.820	0.0520	0.150	mg/L	1.00	10	PRB	02/14/23	1013	2376276	9
Magnesium		38.2	0.0100	0.0300	mg/L	1.00	1	SKJ	02/14/23	0835	2376276	10
Solids Analysis												

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-PZ-63I
Sample ID: 608969006
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		448	2.38	10.0	mg/L			CH6	02/02/23	1428	2377347	11
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	02/02/23	1148	2376122	12
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		26.4	1.45	4.00	mg/L			EK1	02/10/23	1538	2382211	13
Bicarbonate alkalinity (CaCO3)		26.4	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	02/01/23	1154	2376749
SW846 3005A	ICP-MS 3005A PREP	EM2	01/31/23	1540	2376275

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	GEL Field Method	
3	EPA 300.0	
4	EPA 300.0	
5	SW846 7470A	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SW846 3005A/6020B	
10	SW846 3005A/6020B	
11	SM 2540C	
12	SM 4500-S (2-) D	
13	SM 2320B	

Notes:

GEL LABORATORIES LLC
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Certificate of Analysis

Report Date: February 24, 2023

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-PZ-63I	Project:	GPCC00101
Sample ID:	608969006	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-PZ-62I
Sample ID: 608969007
Matrix: WG
Collect Date: 30-JAN-23 13:00
Receive Date: 31-JAN-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		5.38			SU			EOS1	01/30/23	1300	2376217	1
GEL Field Ferrous Iron "As Received"												
Field Ferrous Iron		0.5			mg/L			EOS1	01/30/23	1300	2376217	2
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		9.85	0.335	1.00	mg/L		5	JLD1	02/01/23	0059	2376273	3
Fluoride		0.161	0.0330	0.100	mg/L		1	JLD1	01/31/23	1408	2376273	4
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate		647	13.3	40.0	mg/L		100	JLD1	02/01/23	0130	2376273	5
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/02/23	1000	2376750	6
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Manganese		32.6	0.100	0.500	mg/L	1.00	100	SKJ	02/10/23	1620	2376276	7
Magnesium		68.9	0.0500	0.150	mg/L	1.00	5	SKJ	02/14/23	0831	2376276	8
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1	SKJ	02/10/23	1751	2376276	9
Beryllium	J	0.000293	0.000200	0.000500	mg/L	1.00	1					
Potassium		10.2	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Boron		0.561	0.0260	0.0750	mg/L	1.00	5	PRB	02/14/23	1015	2376276	10
Calcium		124	0.400	1.00	mg/L	1.00	5	SKJ	02/10/23	1700	2376276	11
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	SKJ	02/09/23	2035	2376276	12
Barium		0.0230	0.000670	0.00400	mg/L	1.00	1					
Cadmium		0.00107	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.425	0.000300	0.00100	mg/L	1.00	1					
Iron		0.516	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00661	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	J	0.000247	0.000200	0.00100	mg/L	1.00	1					
Sodium		27.8	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-PZ-62I
Sample ID: 608969007
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1020	2.38	10.0	mg/L			CH6	02/02/23	1428	2377347	13
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	02/02/23	1149	2376122	14
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		17.0	1.45	4.00	mg/L			EK1	02/10/23	1540	2382211	15
Bicarbonate alkalinity (CaCO3)		17.0	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	02/01/23	1154	2376749
SW846 3005A	ICP-MS 3005A PREP	EM2	01/31/23	1540	2376275

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	GEL Field Method	
3	EPA 300.0	
4	EPA 300.0	
5	EPA 300.0	
6	SW846 7470A	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SW846 3005A/6020B	
10	SW846 3005A/6020B	
11	SW846 3005A/6020B	
12	SW846 3005A/6020B	
13	SM 2540C	
14	SM 4500-S (2-) D	
15	SM 2320B	

Notes:

GEL LABORATORIES LLC
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Certificate of Analysis

Report Date: February 24, 2023

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-PZ-62I	Project:	GPCC00101
Sample ID:	608969007	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-PZ-51S
Sample ID: 608969008
Matrix: WG
Collect Date: 30-JAN-23 15:30
Receive Date: 31-JAN-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		6.18			SU			EOS1	01/30/23	1530	2376217	1
GEL Field Ferrous Iron "As Received"												
Field Ferrous Iron		0			mg/L			EOS1	01/30/23	1530	2376217	2
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		4.45	0.0670	0.200	mg/L		1	JLD1	01/31/23	1438	2376273	3
Fluoride	J	0.0983	0.0330	0.100	mg/L		1					
Nitrate-N		1.87	0.0330	0.100	mg/L		1					
Sulfate		0.733	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/02/23	1002	2376750	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Magnesium		10.0	0.0100	0.0300	mg/L	1.00	1	SKJ	02/14/23	0806	2376276	5
Boron	J	0.0102	0.00520	0.0150	mg/L	1.00	1	PRB	02/14/23	1017	2376276	6
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1	SKJ	02/10/23	1703	2376276	7
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Potassium		2.46	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	SKJ	02/09/23	2039	2376276	8
Barium		0.0230	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		7.87	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00115	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0375	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Sodium		12.1	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Manganese		0.994	0.00500	0.0250	mg/L	1.00	5	SKJ	02/10/23	1623	2376276	9
Solids Analysis												

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-PZ-51S
Sample ID: 608969008
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		70.0	2.38	10.0	mg/L			CH6	02/02/23	1428	2377347	10
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	02/02/23	1149	2376122	11
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		68.0	1.45	4.00	mg/L			EK1	02/10/23	1542	2382211	12
Bicarbonate alkalinity (CaCO3)		68.0	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	EM2	01/31/23	1540	2376275
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	02/01/23	1154	2376749

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	GEL Field Method	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SW846 3005A/6020B	
10	SM 2540C	
11	SM 4500-S (2-) D	
12	SM 2320B	

Notes:

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Certificate of Analysis

Report Date: February 24, 2023

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-PZ-51S	Project:	GPCC00101
Sample ID:	608969008	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-PZ-64I
Sample ID: 608969009
Matrix: WG
Collect Date: 30-JAN-23 17:00
Receive Date: 31-JAN-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		5.33			SU			EOS1	01/30/23	1700	2376217	1
GEL Field Ferrous Iron "As Received"												
Field Ferrous Iron		0			mg/L			EOS1	01/30/23	1700	2376217	2
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		40.7	0.670	2.00	mg/L		10	JLD1	02/01/23	0201	2376273	3
Fluoride	J	0.0767	0.0330	0.100	mg/L		1	JLD1	01/31/23	1611	2376273	4
Nitrate-N		1.01	0.0330	0.100	mg/L		1					
Sulfate		2800	66.5	200	mg/L		500	JLD1	02/01/23	0334	2376273	5
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/02/23	1003	2376750	6
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		0.0150	0.00520	0.0150	mg/L	1.00	1	PRB	02/14/23	1019	2376276	7
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	SKJ	02/09/23	2042	2376276	8
Barium		0.0254	0.000670	0.00400	mg/L	1.00	1					
Cadmium		0.00126	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Iron		2.85	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0187	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	J	0.000201	0.000200	0.00100	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Sodium		68.5	0.400	1.25	mg/L	1.00	5	SKJ	02/10/23	1711	2376276	9
Magnesium		288	0.100	0.300	mg/L	1.00	10	SKJ	02/14/23	0833	2376276	10
Calcium		372	0.800	2.00	mg/L	1.00	10	SKJ	02/10/23	1709	2376276	11
Manganese		388	0.500	2.50	mg/L	1.00	500	SKJ	02/10/23	1626	2376276	12
Cobalt		11.0	0.00600	0.0200	mg/L	1.00	20	SKJ	02/10/23	1706	2376276	13
Arsenic		0.0103	0.00200	0.00500	mg/L	1.00	1	SKJ	02/10/23	1754	2376276	14
Beryllium		0.00116	0.000200	0.000500	mg/L	1.00	1					
Potassium		14.5	0.0800	0.300	mg/L	1.00	1					
Selenium		0.0292	0.00150	0.00500	mg/L	1.00	1					
Solids Analysis												

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-PZ-64I
Sample ID: 608969009
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		4260	2.38	10.0	mg/L			CH6	02/02/23	1428	2377347	15
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	02/06/23	1555	2377896	16
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		37.4	1.45	4.00	mg/L			EK1	02/10/23	1543	2382211	17
Bicarbonate alkalinity (CaCO3)		37.4	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	02/01/23	1154	2376749
SW846 3005A	ICP-MS 3005A PREP	EM2	01/31/23	1540	2376275

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	GEL Field Method	
3	EPA 300.0	
4	EPA 300.0	
5	EPA 300.0	
6	SW846 7470A	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SW846 3005A/6020B	
10	SW846 3005A/6020B	
11	SW846 3005A/6020B	
12	SW846 3005A/6020B	
13	SW846 3005A/6020B	
14	SW846 3005A/6020B	
15	SM 2540C	
16	SM 4500-S (2-) D	
17	SM 2320B	

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Certificate of Analysis

Report Date: February 24, 2023

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-PZ-64I	Project:	GPCC00101
Sample ID:	608969009	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-PZ-68D
Sample ID: 609212001
Matrix: WG
Collect Date: 01-FEB-23 14:16
Receive Date: 02-FEB-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		7.28			SU			EOS1	02/01/23	1416	2377722	1
GEL Field Ferrous Iron "As Received"												
Field Ferrous Iron		0			mg/L			EOS1	02/01/23	1416	2377722	2
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		12.7	1.34	4.00	mg/L		20	HXC1	02/03/23	0052	2377739	3
Sulfate		258	2.66	8.00	mg/L		20					
Fluoride		0.166	0.0330	0.100	mg/L		1	HXC1	02/02/23	1654	2377739	4
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/07/23	1203	2378878	5
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	J	0.00176	0.00100	0.00300	mg/L	1.00	1	BAJ	02/05/23	1809	2377747	6
Arsenic		0.00580	0.00200	0.00500	mg/L	1.00	1					
Barium		0.145	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000825	0.000300	0.00100	mg/L	1.00	1					
Iron		0.405	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00899	0.00300	0.0100	mg/L	1.00	1					
Magnesium		21.8	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.809	0.00100	0.00500	mg/L	1.00	1					
Molybdenum		0.0111	0.000200	0.00100	mg/L	1.00	1					
Potassium		7.56	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		49.7	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	BAJ	02/06/23	1648	2377747	7
Boron		0.255	0.0260	0.0750	mg/L	1.00	5	BAJ	02/06/23	1627	2377747	8
Calcium		86.1	0.400	1.00	mg/L	1.00	5					
Solids Analysis												

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-PZ-68D
Sample ID: 609212001
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		525	2.38	10.0	mg/L			CH6	02/08/23	1114	2379677	9
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	02/06/23	1606	2377896	10
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		117	1.45	4.00	mg/L			EK1	02/13/23	1136	2382489	11
Bicarbonate alkalinity (CaCO3)		117	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	02/06/23	1118	2378875
SW846 3005A	ICP-MS 3005A PREP	LG2	02/03/23	0800	2377746

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	GEL Field Method	
3	EPA 300.0	
4	EPA 300.0	
5	SW846 7470A	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SM 2540C	
10	SM 4500-S (2-) D	
11	SM 2320B	

Notes:

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Certificate of Analysis

Report Date: February 24, 2023

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-PZ-68D	Project:	GPCC00101
Sample ID:	609212001	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-PZ-69I	Project:	GPCC00101
Sample ID:	609212002	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	01-FEB-23 12:47		
Receive Date:	02-FEB-23		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		6.18			SU			EOS1	02/01/23	1247	2377722	1
GEL Field Ferrous Iron "As Received"												
Field Ferrous Iron		0			mg/L			EOS1	02/01/23	1247	2377722	2
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		275	2.66	8.00	mg/L		20	HXC1	02/03/23	0122	2377739	3
Chloride		5.80	0.0670	0.200	mg/L		1	HXC1	02/02/23	1724	2377739	4
Fluoride	J	0.0963	0.0330	0.100	mg/L		1					
Nitrate-N		0.144	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/07/23	1205	2378878	5
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	BAJ	02/06/23	1650	2377747	6
Boron		1.29	0.0520	0.150	mg/L	1.00	10	BAJ	02/06/23	1629	2377747	7
Calcium		69.5	0.800	2.00	mg/L	1.00	10					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	02/05/23	1813	2377747	8
Arsenic	J	0.00349	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0253	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	J	0.00338	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000668	0.000300	0.00100	mg/L	1.00	1					
Iron		0.438	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00392	0.00300	0.0100	mg/L	1.00	1					
Magnesium		29.4	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.0548	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		2.38	0.0800	0.300	mg/L	1.00	1					
Selenium		0.196	0.00150	0.00500	mg/L	1.00	1					
Sodium		28.1	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												

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Certificate of Analysis

Report Date: February 24, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-PZ-69I
Sample ID: 609212002
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		441	2.38	10.0	mg/L			CH6	02/08/23	1114	2379677	9
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	02/06/23	1606	2377896	10
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		25.6	1.45	4.00	mg/L			EK1	02/13/23	1146	2382489	11
Bicarbonate alkalinity (CaCO3)		25.6	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	LG2	02/03/23	0800	2377746
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	02/06/23	1118	2378875

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	GEL Field Method	
3	EPA 300.0	
4	EPA 300.0	
5	SW846 7470A	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SM 2540C	
10	SM 4500-S (2-) D	
11	SM 2320B	

Notes:

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: February 24, 2023

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-PZ-69I	Project:	GPCC00101
Sample ID:	609212002	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

QC Summary

Report Date: February 24, 2023

Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia

Contact: **Joju Abraham**

Workorder: **608803**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography										
Batch 2375330										
QC1205306398 608658011 DUP										
Chloride		15.3		15.3	mg/L	0.281		(0%-20%)	JLD1	01/28/23 00:12
Fluoride		0.163		0.161	mg/L	1.6 ^		(+/-0.100)		01/27/23 23:41
Nitrate-N		0.724		0.724	mg/L	0.0829		(0%-20%)		
Sulfate		138		138	mg/L	0.105		(0%-20%)		01/28/23 00:12
QC1205306397 LCS										
Chloride	5.00			5.00	mg/L		100	(90%-110%)		01/27/23 22:09
Fluoride	2.50			2.55	mg/L		102	(90%-110%)		
Nitrate-N	2.50			2.48	mg/L		99.2	(90%-110%)		
Sulfate	10.0			10.0	mg/L		100	(90%-110%)		
QC1205306396 MB										
Chloride			U	ND	mg/L					01/27/23 21:07
Fluoride			U	ND	mg/L					
Nitrate-N			U	ND	mg/L					
Sulfate			U	ND	mg/L					
QC1205306399 608658011 PS										
Chloride	5.00	1.53		6.58	mg/L		101	(90%-110%)		01/28/23 01:14

QC Summary

Workorder: **608803**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography										
Batch 2375330										
Fluoride	2.50	0.163		2.63	mg/L		98.8	(90%-110%)	JLD1	01/28/23 01:45
Nitrate-N	2.50	0.724		3.18	mg/L		98.3	(90%-110%)		
Sulfate	10.0	13.8		24.4	mg/L		106	(90%-110%)		01/28/23 01:14
Batch 2375336										
QC1205306403 608803015 DUP										
Chloride		11.5		11.5	mg/L	0.0261		(0%-20%)	JLD1	01/28/23 08:37
Fluoride	J	0.151	J	0.156	mg/L	3.13 ^		(+/-0.200)		
Nitrate-N	U	ND	U	ND	mg/L	N/A				01/27/23 23:53
Sulfate		885		891	mg/L	0.706		(0%-20%)		01/28/23 10:10
QC1205306402 LCS										
Chloride	5.00			4.88	mg/L		97.7	(90%-110%)		01/27/23 22:21
Fluoride	2.50			2.55	mg/L		102	(90%-110%)		
Nitrate-N	2.50			2.49	mg/L		99.4	(90%-110%)		
Sulfate	10.0			10.1	mg/L		101	(90%-110%)		
QC1205306401 MB										
Chloride			U	ND	mg/L					01/27/23 21:50
Fluoride			U	ND	mg/L					
Nitrate-N			U	ND	mg/L					

QC Summary

Workorder: **608803**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography											
Batch 2375336											
Sulfate				U	ND	mg/L				JLD1	01/27/23 21:50
QC1205306404 608803015 PS											
Chloride	5.00		5.74		11.3	mg/L		111*	(90%-110%)		01/28/23 09:08
Fluoride	2.50	J	0.0754		2.65	mg/L		103	(90%-110%)		
Nitrate-N	2.50	U	ND		2.43	mg/L		97.1	(90%-110%)		01/28/23 00:24
Sulfate	10.0		8.85		19.1	mg/L		102	(90%-110%)		01/28/23 10:41
Metals Analysis - ICPMS											
Batch 2375324											
QC1205306363 LCS											
Antimony	0.0500				0.0505	mg/L		101	(80%-120%)	PRB	02/04/23 19:39
Arsenic	0.0500				0.0491	mg/L		98.3	(80%-120%)		
Barium	0.0500				0.0532	mg/L		106	(80%-120%)		
Beryllium	0.0500				0.0576	mg/L		115	(80%-120%)		
Boron	0.100				0.109	mg/L		109	(80%-120%)		
Cadmium	0.0500				0.0511	mg/L		102	(80%-120%)		
Calcium	2.00				2.18	mg/L		109	(80%-120%)		
Chromium	0.0500				0.0502	mg/L		100	(80%-120%)		
Cobalt	0.0500				0.0504	mg/L		101	(80%-120%)		

QC Summary

Workorder: **608803**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2375324										
Iron	2.00			1.99	mg/L		99.3	(80%-120%)	PRB	02/04/23 19:39
Lead	0.0500			0.0517	mg/L		103	(80%-120%)		
Lithium	0.0500			0.0539	mg/L		108	(80%-120%)		
Magnesium	2.00			2.27	mg/L		113	(80%-120%)		
Manganese	0.0500			0.0492	mg/L		98.5	(80%-120%)		
Molybdenum	0.0500			0.0520	mg/L		104	(80%-120%)		
Potassium	2.00			2.12	mg/L		106	(80%-120%)		
Selenium	0.0500			0.0500	mg/L		100	(80%-120%)		
Sodium	2.00			2.15	mg/L		108	(80%-120%)		
Thallium	0.0500			0.0500	mg/L		100	(80%-120%)		
QC1205306362 MB										
Antimony			U	ND	mg/L					02/04/23 19:35
Arsenic			U	ND	mg/L					
Barium			U	ND	mg/L					
Beryllium			U	ND	mg/L					
Boron			U	ND	mg/L					

QC Summary

Workorder: **608803**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2375324										
Cadmium			U	ND	mg/L				PRB	02/04/23 19:35
Calcium			U	ND	mg/L					
Chromium			U	ND	mg/L					
Cobalt			U	ND	mg/L					
Iron			U	ND	mg/L					
Lead			U	ND	mg/L					
Lithium			U	ND	mg/L					
Magnesium			U	ND	mg/L					
Manganese			U	ND	mg/L					
Molybdenum			J	0.000280	mg/L					
Potassium			U	ND	mg/L					
Selenium			U	ND	mg/L					
Sodium			U	ND	mg/L					
Thallium			U	ND	mg/L					
QC1205306364 608803001 MS										
Antimony	0.0500	U	ND	0.0527	mg/L		105	(75%-125%)		02/04/23 21:49

QC Summary

Workorder: **608803**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2375324											
Arsenic	0.0500	U	ND		0.0518	mg/L		102	(75%-125%)	PRB	02/04/23 21:49
Barium	0.0500		0.0293		0.0815	mg/L		104	(75%-125%)		
Beryllium	0.0500	U	ND		0.0598	mg/L		119	(75%-125%)		
Boron	0.100		1.45		1.59	mg/L		N/A	(75%-125%)		02/04/23 19:46
Cadmium	0.0500	U	ND		0.0520	mg/L		104	(75%-125%)		02/04/23 21:49
Calcium	2.00		57.6		60.9	mg/L		N/A	(75%-125%)		02/04/23 19:46
Chromium	0.0500	U	ND		0.0515	mg/L		103	(75%-125%)		02/04/23 21:49
Cobalt	0.0500		0.00320		0.0540	mg/L		102	(75%-125%)		
Iron	2.00		0.453		2.54	mg/L		105	(75%-125%)		
Lead	0.0500	U	ND		0.0512	mg/L		102	(75%-125%)		
Lithium	0.0500	U	ND		0.0564	mg/L		112	(75%-125%)		
Magnesium	2.00		22.7		25.2	mg/L		N/A	(75%-125%)		
Manganese	0.0500		1.71		1.78	mg/L		N/A	(75%-125%)		02/04/23 19:46
Molybdenum	0.0500	J	0.000920		0.0558	mg/L		110	(75%-125%)		02/04/23 21:49
Potassium	2.00		4.59		6.74	mg/L		108	(75%-125%)		

QC Summary

Workorder: **608803**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2375324											
Selenium	0.0500	U	ND		0.0523	mg/L		104	(75%-125%)	PRB	02/04/23 21:49
Sodium	2.00		17.8		20.4	mg/L		N/A	(75%-125%)		
Thallium	0.0500	U	ND		0.0502	mg/L		100	(75%-125%)		
QC1205306365 608803001 MSD											
Antimony	0.0500	U	ND		0.0529	mg/L	0.519	106	(0%-20%)		02/04/23 21:52
Arsenic	0.0500	U	ND		0.0522	mg/L	0.893	103	(0%-20%)		
Barium	0.0500		0.0293		0.0811	mg/L	0.463	104	(0%-20%)		
Beryllium	0.0500	U	ND		0.0574	mg/L	4.05	115	(0%-20%)		
Boron	0.100		1.45		1.63	mg/L	2.49	N/A	(0%-20%)		02/04/23 19:50
Cadmium	0.0500	U	ND		0.0522	mg/L	0.543	104	(0%-20%)		02/04/23 21:52
Calcium	2.00		57.6		61.8	mg/L	1.43	N/A	(0%-20%)		02/04/23 19:50
Chromium	0.0500	U	ND		0.0506	mg/L	1.74	101	(0%-20%)		02/04/23 21:52
Cobalt	0.0500		0.00320		0.0542	mg/L	0.233	102	(0%-20%)		
Iron	2.00		0.453		2.55	mg/L	0.342	105	(0%-20%)		
Lead	0.0500	U	ND		0.0511	mg/L	0.202	102	(0%-20%)		
Lithium	0.0500	U	ND		0.0544	mg/L	3.58	108	(0%-20%)		

QC Summary

Workorder: **608803**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2375324											
Magnesium	2.00		22.7		24.8	mg/L	1.54	N/A	(0%-20%)	PRB	02/04/23 21:52
Manganese	0.0500		1.71		1.78	mg/L	0.202	N/A	(0%-20%)		02/04/23 19:50
Molybdenum	0.0500	J	0.000920		0.0556	mg/L	0.248	109	(0%-20%)		02/04/23 21:52
Potassium	2.00		4.59		6.62	mg/L	1.84	102	(0%-20%)		
Selenium	0.0500	U	ND		0.0512	mg/L	2.14	102	(0%-20%)		
Sodium	2.00		17.8		20.0	mg/L	1.95	N/A	(0%-20%)		
Thallium	0.0500	U	ND		0.0511	mg/L	1.89	102	(0%-20%)		
QC1205306366 608803001 SDILT											
Antimony		U	ND	U	ND	ug/L	N/A		(0%-20%)		02/04/23 22:00
Arsenic		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Barium			29.3		5.91	ug/L	.922		(0%-20%)		
Beryllium		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Boron			72.3		16.6	ug/L	15.1		(0%-20%)		02/04/23 19:53
Cadmium		U	ND	U	ND	ug/L	N/A		(0%-20%)		02/04/23 22:00
Calcium			2880		565	ug/L	1.98		(0%-20%)		02/04/23 19:53
Chromium		U	ND	U	ND	ug/L	N/A		(0%-20%)		02/04/23 22:00

QC Summary

Workorder: **608803**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2375324										
Cobalt		3.20	J	0.661	ug/L	3.25		(0%-20%)	PRB	02/04/23 22:00
Iron		453	J	92.5	ug/L	2.09		(0%-20%)		
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Lithium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Magnesium		22700		4780	ug/L	5.34		(0%-20%)		
Manganese		85.3		16.3	ug/L	4.25		(0%-20%)		02/04/23 19:53
Molybdenum	J	0.920	J	0.258	ug/L	40.2		(0%-20%)		02/04/23 22:00
Potassium		4590		914	ug/L	.409		(0%-20%)		
Selenium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Sodium		17800		3620	ug/L	1.62		(0%-20%)		
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Metals Analysis-Mercury										
Batch 2375754										
QC1205307096 608803003 DUP										
Mercury	U	ND	U	ND	mg/L	N/A			JP2	01/31/23 10:21
QC1205307095 LCS										
Mercury	0.00200			0.00211	mg/L		105	(80%-120%)		01/31/23 10:11
QC1205307094 MB										
Mercury			U	ND	mg/L					01/31/23 10:09

QC Summary

Workorder: **608803**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis-Mercury											
Batch 2375754											
QC1205307097 608803003 MS											
Mercury	0.00200	U	ND		0.00180	mg/L		90	(75%-125%)	JP2	01/31/23 10:22
QC1205307098 608803003 SDILT											
Mercury		U	ND	U	ND	ug/L	N/A		(0%-10%)		01/31/23 10:24
Solids Analysis											
Batch 2376741											
QC1205308819 608803009 DUP											
Total Dissolved Solids			693		693	mg/L	0		(0%-5%)	CH6	02/01/23 13:05
QC1205308817 LCS											
Total Dissolved Solids	300				300	mg/L		100	(95%-105%)		02/01/23 13:05
QC1205308816 MB											
Total Dissolved Solids				U	ND	mg/L					02/01/23 13:05
Batch 2377347											
QC1205309759 608803013 DUP											
Total Dissolved Solids			2280		2240	mg/L	1.68		(0%-5%)	CH6	02/02/23 14:28
QC1205309760 608969004 DUP											
Total Dissolved Solids			898		882	mg/L	1.8		(0%-5%)		02/02/23 14:28
QC1205309758 LCS											
Total Dissolved Solids	300				301	mg/L		100	(95%-105%)		02/02/23 14:28
QC1205309757 MB											
Total Dissolved Solids				U	ND	mg/L					02/02/23 14:28
Spectrometric Analysis											
Batch 2375859											
QC1205307355 LCS											
Total Sulfide	0.400				0.400	mg/L		99.9	(85%-115%)	HH2	01/31/23 16:57

QC Summary

Workorder: **608803**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Spectrometric Analysis											
Batch 2375859											
QC1205307354 MB											
Total Sulfide				U	ND	mg/L				HH2	01/31/23 16:57
QC1205307356 608803001 PS											
Total Sulfide	0.400	U	ND		0.281	mg/L		67.5*	(75%-125%)		01/31/23 16:57
QC1205307357 608803001 PSD											
Total Sulfide	0.400	U	ND		0.290	mg/L	3.05	69.7*	(0%-15%)		01/31/23 16:57
Batch 2376122											
QC1205307836 LCS											
Total Sulfide	0.400				0.396	mg/L		99	(85%-115%)	HH2	02/02/23 11:42
QC1205307835 MB											
Total Sulfide				U	ND	mg/L					02/02/23 11:42
QC1205307839 608815006 PS											
Total Sulfide	0.400	U	ND		0.367	mg/L		86.7	(75%-125%)		02/02/23 11:47
QC1205307840 608815006 PSD											
Total Sulfide	0.400	U	ND		0.374	mg/L	1.88	88.4	(0%-15%)		02/02/23 11:48
Titration and Ion Analysis											
Batch 2378066											
QC1205311156 608803001 DUP											
Alkalinity, Total as CaCO3			82.8		83.4	mg/L	0.722		(0%-20%)	EK1	02/06/23 13:02
Bicarbonate alkalinity (CaCO3)			82.8		83.4	mg/L	0.722		(0%-20%)		
Carbonate alkalinity (CaCO3)		U	ND	U	ND	mg/L	N/A				
QC1205311155 LCS											
Alkalinity, Total as CaCO3	100				103	mg/L		103	(90%-110%)		02/06/23 12:49

QC Summary

Workorder: **608803**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Titration and Ion Analysis										
Batch 2378066										
QC1205311157 608803001 MS										
Alkalinity, Total as CaCO3	100	82.8		185	mg/L		102	(80%-120%)	EK1	02/06/23 13:31
Batch 2378067										
QC1205313003 608803012 DUP										
Alkalinity, Total as CaCO3		6.00		6.20	mg/L	3.28 ^		(+/-4.00)	EK1	02/06/23 14:58
Bicarbonate alkalinity (CaCO3)		6.00		6.20	mg/L	3.28 ^		(+/-4.00)		
Carbonate alkalinity (CaCO3)	U	ND	U	ND	mg/L	N/A				
QC1205311158 LCS										
Alkalinity, Total as CaCO3	100			104	mg/L		104	(90%-110%)		02/06/23 14:46
QC1205313004 608803012 MS										
Alkalinity, Total as CaCO3	100	6.00		107	mg/L		101	(80%-120%)		02/06/23 15:03

Notes:

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- N Metals--The Matrix spike sample recovery is not within specified control limits
- H Analytical holding time was exceeded
- < Result is less than value reported
- > Result is greater than value reported
- h Preparation or preservation holding time was exceeded
- R Sample results are rejected
- Z Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
- d 5-day BOD--The 2:1 depletion requirement was not met for this sample
- ^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
- N/A RPD or %Recovery limits do not apply.
- ND Analyte concentration is not detected above the detection limit
- E %difference of sample and SD is >10%. Sample concentration must meet flagging criteria

QC Summary

Workorder: **608803**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
E	General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
FB	Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
R	Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.
B	The target analyte was detected in the associated blank.
e	5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes
J	See case narrative for an explanation

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

QC Summary

Report Date: February 24, 2023

Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia

Contact: **Joju Abraham**

Workorder: **609212**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography										
Batch 2377739										
QC1205310455 609211001 DUP										
Chloride		7.41		7.44	mg/L	0.473		(0%-20%)	HXC1	02/02/23 19:53
Fluoride		0.227		0.225	mg/L	0.929 ^		(+/-0.100)		
Nitrate-N		0.662		0.656	mg/L	0.987 ^		(+/-0.500)		02/02/23 23:52
Sulfate		160		171	mg/L	6.74		(0%-20%)		02/02/23 22:23
QC1205310454 LCS										
Chloride	5.00			4.84	mg/L		96.9	(90%-110%)		02/02/23 19:23
Fluoride	2.50			2.62	mg/L		105	(90%-110%)		
Nitrate-N	2.50			2.49	mg/L		99.5	(90%-110%)		
Sulfate	10.0			10.1	mg/L		101	(90%-110%)		
QC1205310453 MB										
Chloride			U	ND	mg/L					02/02/23 18:54
Fluoride			U	ND	mg/L					
Nitrate-N			U	ND	mg/L					
Sulfate			U	ND	mg/L					
QC1205310456 609211001 PS										
Chloride	5.00	7.41		13.1	mg/L		114*	(90%-110%)		02/02/23 20:23

QC Summary

Workorder: **609212**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography										
Batch 2377739										
Fluoride	2.50	0.227		2.77	mg/L		102	(90%-110%)	HXC1	02/02/23 20:23
Nitrate-N	2.50	0.132		2.52	mg/L		95.7	(90%-110%)		02/03/23 00:22
Sulfate	10.0	8.01		18.7	mg/L		107	(90%-110%)		02/02/23 22:52
Metals Analysis - ICPMS										
Batch 2377747										
QC1205310468 LCS										
Antimony	0.0500			0.0503	mg/L		101	(80%-120%)	BAJ	02/05/23 17:48
Arsenic	0.0500			0.0511	mg/L		102	(80%-120%)		
Barium	0.0500			0.0494	mg/L		98.9	(80%-120%)		
Beryllium	0.0500			0.0583	mg/L		117	(80%-120%)		02/06/23 16:17
Boron	0.100			0.111	mg/L		111	(80%-120%)		
Cadmium	0.0500			0.0523	mg/L		105	(80%-120%)		02/05/23 17:48
Calcium	2.00			2.24	mg/L		112	(80%-120%)		02/06/23 16:17
Chromium	0.0500			0.0509	mg/L		102	(80%-120%)		02/05/23 17:48
Cobalt	0.0500			0.0505	mg/L		101	(80%-120%)		
Iron	2.00			1.95	mg/L		97.3	(80%-120%)		
Lead	0.0500			0.0515	mg/L		103	(80%-120%)		

QC Summary

Workorder: **609212**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2377747										
Lithium	0.0500			0.0565	mg/L		113	(80%-120%)	BAJ	02/05/23 17:48
Magnesium	2.00			2.02	mg/L		101	(80%-120%)		
Manganese	0.0500			0.0504	mg/L		101	(80%-120%)		
Molybdenum	0.0500			0.0510	mg/L		102	(80%-120%)		
Potassium	2.00			1.84	mg/L		91.9	(80%-120%)		
Selenium	0.0500			0.0520	mg/L		104	(80%-120%)		
Sodium	2.00			2.29	mg/L		114	(80%-120%)		
Thallium	0.0500			0.0512	mg/L		102	(80%-120%)		
QC1205310467 MB										
Antimony			U	ND	mg/L					02/05/23 17:44
Arsenic			U	ND	mg/L					
Barium			U	ND	mg/L					
Beryllium			U	ND	mg/L					02/06/23 16:15
Boron			U	ND	mg/L					
Cadmium			U	ND	mg/L					02/05/23 17:44
Calcium			U	ND	mg/L					02/06/23 16:15

QC Summary

Workorder: **609212**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2377747										
Chromium			U	ND	mg/L				BAJ	02/05/23 17:44
Cobalt			U	ND	mg/L					
Iron			U	ND	mg/L					
Lead			U	ND	mg/L					
Lithium			U	ND	mg/L					
Magnesium			U	ND	mg/L					
Manganese			U	ND	mg/L					
Molybdenum			U	ND	mg/L					
Potassium			U	ND	mg/L					
Selenium			U	ND	mg/L					
Sodium			U	ND	mg/L					
Thallium			U	ND	mg/L					
QC1205310469 609211001 MS										
Antimony	0.0500	0.0125		0.0618	mg/L		98.5	(75%-125%)		02/05/23 17:55
Arsenic	0.0500	0.374		0.429	mg/L		N/A	(75%-125%)		
Barium	0.0500	0.164		0.215	mg/L		101	(75%-125%)		

QC Summary

Workorder: **609212**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2377747											
Beryllium	0.0500	U	ND		0.0564	mg/L		113	(75%-125%)	BAJ	02/06/23 16:39
Boron	0.100		1.52		1.74	mg/L		N/A	(75%-125%)		02/06/23 16:21
Cadmium	0.0500	U	ND		0.0500	mg/L		99.8	(75%-125%)		02/05/23 17:55
Calcium	2.00		168		185	mg/L		N/A	(75%-125%)		02/06/23 16:21
Chromium	0.0500	U	ND		0.0492	mg/L		96.9	(75%-125%)		02/05/23 17:55
Cobalt	0.0500		0.00123		0.0493	mg/L		96.1	(75%-125%)		
Iron	2.00		1.08		3.08	mg/L		100	(75%-125%)		
Lead	0.0500	U	ND		0.0473	mg/L		94.2	(75%-125%)		
Lithium	0.0500		0.305		0.370	mg/L		N/A	(75%-125%)		
Magnesium	2.00		17.7		20.1	mg/L		N/A	(75%-125%)		
Manganese	0.0500		0.0654		0.116	mg/L		101	(75%-125%)		
Molybdenum	0.0500		0.0781		0.133	mg/L		109	(75%-125%)		
Potassium	2.00		12.0		14.5	mg/L		N/A	(75%-125%)		
Selenium	0.0500		0.0305		0.0816	mg/L		102	(75%-125%)		
Sodium	2.00		20.4		23.4	mg/L		N/A	(75%-125%)		

QC Summary

Workorder: **609212**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2377747											
Thallium	0.0500	J	0.00144		0.0497	mg/L		96.6	(75%-125%)	BAJ	02/05/23 17:55
QC1205310470 609211001 MSD											
Antimony	0.0500		0.0125		0.0620	mg/L	0.401	99	(0%-20%)		02/05/23 17:58
Arsenic	0.0500		0.374		0.431	mg/L	0.431	N/A	(0%-20%)		
Barium	0.0500		0.164		0.214	mg/L	0.484	99.1	(0%-20%)		
Beryllium	0.0500	U	ND		0.0549	mg/L	2.62	110	(0%-20%)		02/06/23 16:41
Boron	0.100		1.52		1.75	mg/L	0.244	N/A	(0%-20%)		02/06/23 16:23
Cadmium	0.0500	U	ND		0.0500	mg/L	0.088	99.7	(0%-20%)		02/05/23 17:58
Calcium	2.00		168		186	mg/L	0.00965	N/A	(0%-20%)		02/06/23 16:23
Chromium	0.0500	U	ND		0.0496	mg/L	0.931	97.8	(0%-20%)		02/05/23 17:58
Cobalt	0.0500		0.00123		0.0491	mg/L	0.396	95.7	(0%-20%)		
Iron	2.00		1.08		3.05	mg/L	1.05	98.6	(0%-20%)		
Lead	0.0500	U	ND		0.0477	mg/L	0.895	95.1	(0%-20%)		
Lithium	0.0500		0.305		0.375	mg/L	1.54	N/A	(0%-20%)		
Magnesium	2.00		17.7		19.9	mg/L	0.818	N/A	(0%-20%)		
Manganese	0.0500		0.0654		0.114	mg/L	1.61	97.5	(0%-20%)		

QC Summary

Workorder: **609212**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2377747											
Molybdenum	0.0500		0.0781		0.132	mg/L	0.151	109	(0%-20%)	BAJ	02/05/23 17:58
Potassium	2.00		12.0		14.4	mg/L	0.568	N/A	(0%-20%)		
Selenium	0.0500		0.0305		0.0831	mg/L	1.78	105	(0%-20%)		
Sodium	2.00		20.4		22.9	mg/L	2.07	N/A	(0%-20%)		
Thallium	0.0500	J	0.00144		0.0500	mg/L	0.573	97.2	(0%-20%)		
QC1205310471 609211001 SDILT											
Antimony			12.5	J	2.68	ug/L	7.07		(0%-20%)		02/05/23 18:06
Arsenic			374		71.3	ug/L	4.57		(0%-20%)		
Barium			164		32.3	ug/L	1.58		(0%-20%)		
Beryllium		U	ND	U	ND	ug/L	N/A		(0%-20%)		02/06/23 16:45
Boron			75.9		17.1	ug/L	12.5		(0%-20%)		02/06/23 16:25
Cadmium		U	ND	U	ND	ug/L	N/A		(0%-20%)		02/05/23 18:06
Calcium			8410		1740	ug/L	3.47		(0%-20%)		02/06/23 16:25
Chromium		U	ND	U	ND	ug/L	N/A		(0%-20%)		02/05/23 18:06
Cobalt			1.23	U	ND	ug/L	N/A		(0%-20%)		
Iron			1080		226	ug/L	4.69		(0%-20%)		

QC Summary

Workorder: **609212**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2377747										
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)	BAJ	02/05/23 18:06
Lithium		305		58.2	ug/L	4.46		(0%-20%)		
Magnesium		17700		3080	ug/L	12.8		(0%-20%)		
Manganese		65.4		13.6	ug/L	4.21		(0%-20%)		
Molybdenum		78.1		14.8	ug/L	5.25		(0%-20%)		
Potassium		12000		2170	ug/L	9.63		(0%-20%)		
Selenium		30.5		6.13	ug/L	.502		(0%-20%)		
Sodium		20400		3970	ug/L	2.98		(0%-20%)		
Thallium	J	1.44	U	ND	ug/L	N/A		(0%-20%)		
Metals Analysis-Mercury										
Batch 2378878										
QC1205312143 609438010 DUP										
Mercury	U	ND	U	ND	mg/L	N/A			JP2	02/07/23 12:21
QC1205312142 LCS										
Mercury 0.00200				0.00209	mg/L		105	(80%-120%)		02/07/23 12:01
QC1205312141 MB										
Mercury			U	ND	mg/L					02/07/23 12:00
QC1205312144 609438010 MS										
Mercury 0.00200	U	ND		0.00200	mg/L		100	(75%-125%)		02/07/23 12:22

QC Summary

Workorder: **609212**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis-Mercury											
Batch 2378878											
QC1205312145 609438010 SDILT											
Mercury		U	ND	U	ND	ug/L	N/A		(0%-10%)	JP2	02/07/23 12:24
Solids Analysis											
Batch 2379677											
QC1205313479 609435002 DUP											
Total Dissolved Solids			857		820	mg/L	4.37		(0%-5%)	CH6	02/08/23 11:14
QC1205314103 609211001 DUP											
Total Dissolved Solids			597		602	mg/L	0.834		(0%-5%)		02/08/23 11:14
QC1205313478 LCS											
Total Dissolved Solids	300				301	mg/L		100	(95%-105%)		02/08/23 11:14
QC1205313477 MB											
Total Dissolved Solids				U	ND	mg/L					02/08/23 11:14
Spectrometric Analysis											
Batch 2377896											
QC1205310860 LCS											
Total Sulfide	0.400				0.408	mg/L		102	(85%-115%)	HH2	02/06/23 15:53
QC1205310859 MB											
Total Sulfide				U	ND	mg/L					02/06/23 15:53
QC1205310863 609152001 PS											
Total Sulfide	0.400	U	ND		0.183	mg/L		45.7*	(75%-125%)		02/06/23 16:02
QC1205310864 609152001 PSD											
Total Sulfide	0.400	U	ND		0.188	mg/L	2.89	47*	(0%-15%)		02/06/23 16:03

QC Summary

Workorder: **609212**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Titration and Ion Analysis										
Batch 2382489										
QC1205318636 609152001 DUP										
Alkalinity, Total as CaCO3		143		143	mg/L	0.14		(0%-20%)	EK1	02/13/23 10:31
Bicarbonate alkalinity (CaCO3)		143		143	mg/L	0.14		(0%-20%)		
Carbonate alkalinity (CaCO3)	U	ND	U	ND	mg/L	N/A				
QC1205319654 609212001 DUP										
Alkalinity, Total as CaCO3		117		118	mg/L	0.17		(0%-20%)		02/13/23 11:40
Bicarbonate alkalinity (CaCO3)		117		118	mg/L	0.17		(0%-20%)		
Carbonate alkalinity (CaCO3)	U	ND	U	ND	mg/L	N/A				
QC1205318635 LCS										
Alkalinity, Total as CaCO3	100			105	mg/L		105	(90%-110%)		02/13/23 10:24
QC1205318637 609152001 MS										
Alkalinity, Total as CaCO3	100	143		247	mg/L		104	(80%-120%)		02/13/23 10:34
QC1205319655 609212001 MS										
Alkalinity, Total as CaCO3	100	117		222	mg/L		105	(80%-120%)		02/13/23 11:43

Notes:

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- N Metals--The Matrix spike sample recovery is not within specified control limits
- H Analytical holding time was exceeded
- < Result is less than value reported
- > Result is greater than value reported
- h Preparation or preservation holding time was exceeded

QC Summary

Workorder: **609212**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

R	Sample results are rejected
Z	Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
d	5-day BOD--The 2:1 depletion requirement was not met for this sample
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
E	%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
E	General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
FB	Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
R	Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.
B	The target analyte was detected in the associated blank.
e	5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes
J	See case narrative for an explanation

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

QC Summary

Report Date: February 24, 2023

Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia

Contact: **Joju Abraham**

Workorder: **608969**

Parmname	NOM		Sample	Qual	QC	Units	RPD%		REC%	Range	Anlst	Date Time
Ion Chromatography												
Batch 2376273												
QC1205308090 608969009 DUP												
Chloride			40.7		40.7	mg/L	0.0246			(0%-20%)	JLD1	02/01/23 02:32
Fluoride		J	0.0767	J	0.0736	mg/L	4.13	^		(+/-0.100)		01/31/23 17:47
Nitrate-N			1.01		1.10	mg/L	7.77			(0%-20%)		
Sulfate			2800		2900	mg/L	3.59			(0%-20%)		02/01/23 04:05
QC1205308089 LCS												
Chloride	5.00				4.95	mg/L			99.1	(90%-110%)		01/31/23 10:32
Fluoride	2.50				2.48	mg/L			99.2	(90%-110%)		
Nitrate-N	2.50				2.45	mg/L			98	(90%-110%)		
Sulfate	10.0				9.94	mg/L			99.4	(90%-110%)		
QC1205308088 MB												
Chloride				U	ND	mg/L						01/31/23 10:02
Fluoride				U	ND	mg/L						
Nitrate-N				U	ND	mg/L						
Sulfate				U	ND	mg/L						
QC1205308091 608969009 PS												
Chloride	5.00		4.07		9.53	mg/L			109	(90%-110%)		02/01/23 03:03

QC Summary

Workorder: **608969**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography											
Batch 2376273											
Fluoride	2.50	J	0.0767		2.40	mg/L		93	(90%-110%)	JLD1	01/31/23 18:18
Nitrate-N	2.50		1.01		3.67	mg/L		106	(90%-110%)		
Sulfate	10.0		5.60		15.6	mg/L		100	(90%-110%)		02/01/23 04:35
Metals Analysis - ICPMS											
Batch 2376276											
QC1205308094 LCS											
Antimony	0.0500				0.0500	mg/L		100	(80%-120%)	SKJ	02/09/23 19:49
Arsenic	0.0500				0.0522	mg/L		104	(80%-120%)		02/10/23 15:46
Barium	0.0500				0.0489	mg/L		97.9	(80%-120%)		02/09/23 19:49
Beryllium	0.0500				0.0574	mg/L		115	(80%-120%)		02/10/23 15:46
Boron	0.100				0.102	mg/L		102	(80%-120%)	PRB	02/14/23 09:51
Cadmium	0.0500				0.0524	mg/L		105	(80%-120%)	SKJ	02/09/23 19:49
Calcium	2.00				2.18	mg/L		109	(80%-120%)		
Chromium	0.0500				0.0503	mg/L		101	(80%-120%)		
Cobalt	0.0500				0.0495	mg/L		98.9	(80%-120%)		
Iron	2.00				2.03	mg/L		101	(80%-120%)		
Lead	0.0500				0.0506	mg/L		101	(80%-120%)		

QC Summary

Workorder: **608969**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2376276										
Lithium	0.0500			0.0576	mg/L		115	(80%-120%)	SKJ	02/09/23 19:49
Magnesium	2.00			2.39	mg/L		119	(80%-120%)		02/14/23 08:04
Manganese	0.0500			0.0501	mg/L		100	(80%-120%)		02/09/23 19:49
Molybdenum	0.0500			0.0526	mg/L		105	(80%-120%)		
Potassium	2.00			2.12	mg/L		106	(80%-120%)		02/10/23 15:46
Selenium	0.0500			0.0531	mg/L		106	(80%-120%)		
Sodium	2.00			2.16	mg/L		108	(80%-120%)		02/09/23 19:49
Thallium	0.0500			0.0500	mg/L		100	(80%-120%)		
QC1205308093 MB										
Antimony			U	ND	mg/L					02/09/23 19:45
Arsenic			U	ND	mg/L					02/10/23 15:43
Barium			U	ND	mg/L					02/09/23 19:45
Beryllium			J	0.000207	mg/L					02/10/23 15:43
Boron			U	ND	mg/L				PRB	02/14/23 09:49
Cadmium			U	ND	mg/L				SKJ	02/09/23 19:45
Calcium			U	ND	mg/L					

QC Summary

Workorder: **608969**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2376276										
Chromium			U	ND	mg/L				SKJ	02/09/23 19:45
Cobalt			U	ND	mg/L					
Iron			U	ND	mg/L					
Lead			U	ND	mg/L					
Lithium			U	ND	mg/L					
Magnesium			U	ND	mg/L					02/14/23 07:53
Manganese			U	ND	mg/L					02/09/23 19:45
Molybdenum			U	ND	mg/L					
Potassium			U	ND	mg/L					02/10/23 15:43
Selenium			U	ND	mg/L					
Sodium			U	ND	mg/L					02/09/23 19:45
Thallium			U	ND	mg/L					
QC1205308095 608969001 MS										
Antimony	0.0500	U	ND	0.0482	mg/L		95.8	(75%-125%)		02/09/23 19:56
Arsenic	0.0500		0.00565	0.0563	mg/L		101	(75%-125%)		02/10/23 17:26
Barium	0.0500		0.0284	0.0794	mg/L		102	(75%-125%)		02/09/23 19:56

QC Summary

Workorder: **608969**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2376276											
Beryllium	0.0500	J	0.000318		0.0515	mg/L		102	(75%-125%)	SKJ	02/10/23 17:26
Boron	0.100		0.128		0.219	mg/L		90.5	(75%-125%)	PRB	02/14/23 09:54
Cadmium	0.0500	U	ND		0.0482	mg/L		96.1	(75%-125%)	SKJ	02/10/23 17:26
Calcium	2.00		217		219	mg/L		N/A	(75%-125%)		02/10/23 16:40
Chromium	0.0500	U	ND		0.0510	mg/L		100	(75%-125%)		02/09/23 19:56
Cobalt	0.0500		0.345		0.404	mg/L		N/A	(75%-125%)		
Iron	2.00		17.8		20.5	mg/L		N/A	(75%-125%)		
Lead	0.0500	U	ND		0.0456	mg/L		90.8	(75%-125%)		
Lithium	0.0500		0.0131		0.0720	mg/L		118	(75%-125%)		
Magnesium	2.00		303		306	mg/L		N/A	(75%-125%)		02/14/23 08:16
Manganese	0.0500		109		115	mg/L		N/A	(75%-125%)		02/10/23 15:52
Molybdenum	0.0500	J	0.000675		0.0560	mg/L		111	(75%-125%)		02/09/23 19:56
Potassium	2.00		10.8		13.2	mg/L		N/A	(75%-125%)		02/10/23 17:26
Selenium	0.0500		0.00817		0.0623	mg/L		108	(75%-125%)		
Sodium	2.00		62.9		64.2	mg/L		N/A	(75%-125%)		02/10/23 16:40

QC Summary

Workorder: **608969**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2376276											
Thallium	0.0500	U	ND		0.0467	mg/L		93.2	(75%-125%)	SKJ	02/09/23 19:56
QC1205308096 608969001 MSD											
Antimony	0.0500	U	ND		0.0491	mg/L	1.71	97.5	(0%-20%)		02/09/23 19:59
Arsenic	0.0500		0.00565		0.0587	mg/L	4.11	106	(0%-20%)		02/10/23 17:29
Barium	0.0500		0.0284		0.0805	mg/L	1.36	104	(0%-20%)		02/09/23 19:59
Beryllium	0.0500	J	0.000318		0.0527	mg/L	2.33	105	(0%-20%)		02/10/23 17:29
Boron	0.100		0.128		0.222	mg/L	1.59	94	(0%-20%)	PRB	02/14/23 09:56
Cadmium	0.0500	U	ND		0.0500	mg/L	3.75	99.8	(0%-20%)	SKJ	02/10/23 17:29
Calcium	2.00		217		231	mg/L	5.2	N/A	(0%-20%)		02/10/23 16:43
Chromium	0.0500	U	ND		0.0516	mg/L	1.2	102	(0%-20%)		02/09/23 19:59
Cobalt	0.0500		0.345		0.409	mg/L	1.22	N/A	(0%-20%)		
Iron	2.00		17.8		20.6	mg/L	0.871	N/A	(0%-20%)		
Lead	0.0500	U	ND		0.0464	mg/L	1.58	92.3	(0%-20%)		
Lithium	0.0500		0.0131		0.0716	mg/L	0.614	117	(0%-20%)		
Magnesium	2.00		303		323	mg/L	5.48	N/A	(0%-20%)		02/14/23 08:18
Manganese	0.0500		109		115	mg/L	0.68	N/A	(0%-20%)		02/10/23 15:54

QC Summary

Workorder: **608969**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2376276											
Molybdenum	0.0500	J	0.000675		0.0575	mg/L	2.65	114	(0%-20%)	SKJ	02/09/23 19:59
Potassium	2.00		10.8		13.4	mg/L	1.65	N/A	(0%-20%)		02/10/23 17:29
Selenium	0.0500		0.00817		0.0629	mg/L	0.902	109	(0%-20%)		
Sodium	2.00		62.9		67.8	mg/L	5.49	N/A	(0%-20%)		02/10/23 16:43
Thallium	0.0500	U	ND		0.0472	mg/L	1.06	94.2	(0%-20%)		02/09/23 19:59
QC1205308097 608969001 SDILT											
Antimony		U	ND	U	ND	ug/L	N/A		(0%-20%)		02/09/23 20:06
Arsenic			5.65	U	ND	ug/L	N/A		(0%-20%)		02/10/23 17:34
Barium			28.4		5.78	ug/L	1.56		(0%-20%)		02/09/23 20:06
Beryllium		J	0.318	U	ND	ug/L	N/A		(0%-20%)		02/10/23 17:34
Boron			128		33.5	ug/L	30.7		(0%-20%)	PRB	02/14/23 10:00
Cadmium		U	ND	U	ND	ug/L	N/A		(0%-20%)	SKJ	02/10/23 17:34
Calcium			21700	E	3280	ug/L	24.4*		(0%-20%)		02/10/23 16:46
Chromium		U	ND	U	ND	ug/L	N/A		(0%-20%)		02/09/23 20:06
Cobalt			345		72.5	ug/L	5.03		(0%-20%)		
Iron			17800		3740	ug/L	4.91		(0%-20%)		

QC Summary

Workorder: **608969**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2376276										
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)	SKJ	02/09/23 20:06
Lithium		13.1	U	ND	ug/L	N/A		(0%-20%)		
Magnesium		30300	E	4690	ug/L	22.5*		(0%-20%)		02/14/23 08:19
Manganese		218		43.8	ug/L	.485		(0%-20%)		02/10/23 15:57
Molybdenum	J	0.675	U	ND	ug/L	N/A		(0%-20%)		02/09/23 20:06
Potassium		10800		2010	ug/L	7.21		(0%-20%)		02/10/23 17:34
Selenium		8.17	J	1.77	ug/L	8.24		(0%-20%)		
Sodium		6290	E	940	ug/L	25.2*		(0%-20%)		02/10/23 16:46
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)		02/09/23 20:06
Metals Analysis-Mercury										
Batch 2376750										
QC1205308832 609006008 DUP										
Mercury	U	ND	U	ND	mg/L	N/A			JP2	02/02/23 10:07
QC1205308831 LCS										
Mercury 0.00200				0.00206	mg/L		103	(80%-120%)		02/02/23 09:38
QC1205308830 MB										
Mercury			U	ND	mg/L					02/02/23 09:36
QC1205308833 609006008 MS										
Mercury 0.00200	U	ND		0.00212	mg/L		105	(75%-125%)		02/02/23 10:08

QC Summary

Workorder: 608969

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis-Mercury											
Batch 2376750											
QC1205308834 609006008 SDILT											
Mercury		U	ND	U	ND	ug/L	N/A		(0%-10%)	JP2	02/02/23 10:10
Solids Analysis											
Batch 2377347											
QC1205309759 608803013 DUP											
Total Dissolved Solids			2280		2240	mg/L	1.68		(0%-5%)	CH6	02/02/23 14:28
QC1205309760 608969004 DUP											
Total Dissolved Solids			898		882	mg/L	1.8		(0%-5%)		02/02/23 14:28
QC1205309758 LCS											
Total Dissolved Solids	300				301	mg/L		100	(95%-105%)		02/02/23 14:28
QC1205309757 MB											
Total Dissolved Solids				U	ND	mg/L					02/02/23 14:28
Spectrometric Analysis											
Batch 2376122											
QC1205307836 LCS											
Total Sulfide	0.400				0.396	mg/L		99	(85%-115%)	HH2	02/02/23 11:42
QC1205307835 MB											
Total Sulfide				U	ND	mg/L					02/02/23 11:42
QC1205307839 608815006 PS											
Total Sulfide	0.400	U	ND		0.367	mg/L		86.7	(75%-125%)		02/02/23 11:47
QC1205307840 608815006 PSD											
Total Sulfide	0.400	U	ND		0.374	mg/L	1.88	88.4	(0%-15%)		02/02/23 11:48
Batch 2377896											
QC1205310860 LCS											
Total Sulfide	0.400				0.408	mg/L		102	(85%-115%)	HH2	02/06/23 15:53

QC Summary

Workorder: **608969**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Spectrometric Analysis											
Batch 2377896											
QC1205310859 MB											
Total Sulfide				U	ND	mg/L				HH2	02/06/23 15:53
QC1205310863 609152001 PS											
Total Sulfide	0.400	U	ND		0.183	mg/L		45.7*	(75%-125%)		02/06/23 16:02
QC1205310864 609152001 PSD											
Total Sulfide	0.400	U	ND		0.188	mg/L	2.89	47*	(0%-15%)		02/06/23 16:03
Titration and Ion Analysis											
Batch 2382211											
QC1205317833 608969001 DUP											
Alkalinity, Total as CaCO3			62.4		62.8	mg/L	0.639		(0%-20%)	EK1	02/10/23 15:15
Bicarbonate alkalinity (CaCO3)			62.4		62.8	mg/L	0.639		(0%-20%)		
Carbonate alkalinity (CaCO3)		U	ND	U	ND	mg/L	N/A				
QC1205317832 LCS											
Alkalinity, Total as CaCO3	100				104	mg/L		104	(90%-110%)		02/10/23 15:10
QC1205317834 608969001 MS											
Alkalinity, Total as CaCO3	100		62.4		170	mg/L		107	(80%-120%)		02/10/23 15:18

Notes:

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- N Metals--The Matrix spike sample recovery is not within specified control limits
- H Analytical holding time was exceeded
- < Result is less than value reported
- > Result is greater than value reported
- h Preparation or preservation holding time was exceeded

QC Summary

Workorder: **608969**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

R	Sample results are rejected
Z	Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
d	5-day BOD--The 2:1 depletion requirement was not met for this sample
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
E	%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
E	General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
FB	Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
R	Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.
B	The target analyte was detected in the associated blank.
e	5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes
J	See case narrative for an explanation

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

QC Summary

Report Date: February 24, 2023

Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia

Contact: **Joju Abraham**

Workorder: **608602**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography											
Batch 2374768											
QC1205305382 608602001 DUP											
Chloride			5.84		5.87	mg/L	0.538		(0%-20%)	HXC1	01/26/23 21:55
Fluoride			0.130		0.180	mg/L	31.8 ^		(+/-0.100)		
Nitrate-N		U	ND	U	ND	mg/L	N/A				01/26/23 23:25
Sulfate			41.0		41.1	mg/L	0.217		(0%-20%)		
QC1205305381 LCS											
Chloride	5.00				4.83	mg/L		96.6	(90%-110%)		01/26/23 21:25
Fluoride	2.50				2.61	mg/L		104	(90%-110%)		
Nitrate-N	2.50				2.49	mg/L		99.4	(90%-110%)		
Sulfate	10.0				10.0	mg/L		100	(90%-110%)		
QC1205305380 MB											
Chloride				U	ND	mg/L					01/26/23 19:56
Fluoride				U	ND	mg/L					
Nitrate-N				U	ND	mg/L					
Sulfate				U	ND	mg/L					
QC1205305383 608602001 PS											
Chloride	5.00		5.84		11.6	mg/L		115 *	(90%-110%)		01/26/23 22:25

QC Summary

Workorder: **608602**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography											
Batch 2374768											
Fluoride	2.50		0.130		2.78	mg/L		106	(90%-110%)	HXC1	01/26/23 22:25
Nitrate-N	2.50	U	ND		2.47	mg/L		98.7	(90%-110%)		01/26/23 23:55
Sulfate	10.0		8.20		18.7	mg/L		105	(90%-110%)		
Metals Analysis - ICPMS											
Batch 2374786											
QC1205305393 LCS											
Antimony	0.0500				0.0526	mg/L		105	(80%-120%)	SKJ	02/08/23 17:36
Arsenic	0.0500				0.0527	mg/L		105	(80%-120%)		
Barium	0.0500				0.0508	mg/L		102	(80%-120%)		
Beryllium	0.0500				0.0597	mg/L		119	(80%-120%)		02/07/23 18:32
Boron	0.100				0.119	mg/L		119	(80%-120%)		02/08/23 17:36
Cadmium	0.0500				0.0538	mg/L		108	(80%-120%)		
Calcium	2.00				2.20	mg/L		110	(80%-120%)		
Chromium	0.0500				0.0522	mg/L		104	(80%-120%)		
Cobalt	0.0500				0.0514	mg/L		103	(80%-120%)		
Iron	2.00				2.04	mg/L		102	(80%-120%)		
Lead	0.0500				0.0526	mg/L		105	(80%-120%)		

QC Summary

Workorder: **608602**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2374786										
Lithium	0.0500			0.0571	mg/L		114	(80%-120%)	SKJ	02/07/23 18:32
Magnesium	2.00			2.24	mg/L		112	(80%-120%)		02/08/23 17:36
Manganese	0.0500			0.0518	mg/L		104	(80%-120%)		
Molybdenum	0.0500			0.0547	mg/L		109	(80%-120%)		
Potassium	2.00			2.06	mg/L		103	(80%-120%)		
Selenium	0.0500			0.0527	mg/L		105	(80%-120%)		
Sodium	2.00			2.24	mg/L		112	(80%-120%)		
Thallium	0.0500			0.0516	mg/L		103	(80%-120%)		
QC1205305392 MB										
Antimony			U	ND	mg/L					02/08/23 17:32
Arsenic			U	ND	mg/L					
Barium			U	ND	mg/L					
Beryllium			U	ND	mg/L					02/07/23 18:29
Boron			U	ND	mg/L					02/08/23 17:32
Cadmium			U	ND	mg/L					
Calcium			U	ND	mg/L					

QC Summary

Workorder: **608602**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2374786										
Chromium			U	ND	mg/L				SKJ	02/08/23 17:32
Cobalt			U	ND	mg/L					
Iron			U	ND	mg/L					
Lead			U	ND	mg/L					
Lithium			U	ND	mg/L					02/07/23 18:29
Magnesium			U	ND	mg/L					02/08/23 17:32
Manganese			U	ND	mg/L					
Molybdenum			U	ND	mg/L					
Potassium			U	ND	mg/L					
Selenium			U	ND	mg/L					
Sodium			U	ND	mg/L					
Thallium			U	ND	mg/L					
QC1205305394 608602001 MS										
Antimony	0.0500	U	ND	0.0535	mg/L		107	(75%-125%)		02/08/23 19:13
Arsenic	0.0500	J	0.00221	0.0524	mg/L		100	(75%-125%)		
Barium	0.0500		0.0498	0.0988	mg/L		97.9	(75%-125%)		

QC Summary

Workorder: **608602**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2374786											
Beryllium	0.0500	U	ND		0.0601	mg/L		120	(75%-125%)	SKJ	02/07/23 18:40
Boron	0.100		1.47		1.54	mg/L		N/A	(75%-125%)		02/08/23 17:43
Cadmium	0.0500	U	ND		0.0530	mg/L		106	(75%-125%)		02/08/23 19:13
Calcium	2.00		25.1		27.8	mg/L		N/A	(75%-125%)		
Chromium	0.0500	U	ND		0.0520	mg/L		103	(75%-125%)		
Cobalt	0.0500	U	ND		0.0513	mg/L		102	(75%-125%)		
Iron	2.00	J	0.0504		2.04	mg/L		99.6	(75%-125%)		
Lead	0.0500	U	ND		0.0518	mg/L		104	(75%-125%)		
Lithium	0.0500	J	0.00728		0.0653	mg/L		116	(75%-125%)		02/07/23 18:40
Magnesium	2.00		10.8		13.1	mg/L		N/A	(75%-125%)		02/08/23 19:13
Manganese	0.0500		0.396		0.459	mg/L		N/A	(75%-125%)		02/09/23 11:05
Molybdenum	0.0500	U	ND		0.0554	mg/L		111	(75%-125%)		02/08/23 19:13
Potassium	2.00		2.95		5.22	mg/L		114	(75%-125%)		
Selenium	0.0500	U	ND		0.0492	mg/L		98.3	(75%-125%)		
Sodium	2.00		12.5		14.9	mg/L		N/A	(75%-125%)		

QC Summary

Workorder: **608602**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2374786											
Thallium	0.0500	U	ND		0.0513	mg/L		103	(75%-125%)	SKJ	02/08/23 19:13
QC1205305395 608602001 MSD											
Antimony	0.0500	U	ND		0.0526	mg/L	1.66	105	(0%-20%)		02/08/23 19:17
Arsenic	0.0500	J	0.00221		0.0525	mg/L	0.168	101	(0%-20%)		
Barium	0.0500		0.0498		0.0968	mg/L	2	94	(0%-20%)		
Beryllium	0.0500	U	ND		0.0617	mg/L	2.74	123	(0%-20%)		02/07/23 18:43
Boron	0.100		1.47		1.61	mg/L	4.7	N/A	(0%-20%)		02/08/23 17:47
Cadmium	0.0500	U	ND		0.0544	mg/L	2.71	109	(0%-20%)		02/08/23 19:17
Calcium	2.00		25.1		27.2	mg/L	2.09	N/A	(0%-20%)		
Chromium	0.0500	U	ND		0.0516	mg/L	0.689	102	(0%-20%)		
Cobalt	0.0500	U	ND		0.0501	mg/L	2.39	99.8	(0%-20%)		
Iron	2.00	J	0.0504		2.01	mg/L	1.41	98.2	(0%-20%)		
Lead	0.0500	U	ND		0.0502	mg/L	3.16	100	(0%-20%)		
Lithium	0.0500	J	0.00728		0.0658	mg/L	0.747	117	(0%-20%)		02/07/23 18:43
Magnesium	2.00		10.8		13.2	mg/L	0.43	N/A	(0%-20%)		02/08/23 19:17
Manganese	0.0500		0.396		0.444	mg/L	3.41	N/A	(0%-20%)		02/09/23 11:07

QC Summary

Workorder: **608602**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2374786											
Molybdenum	0.0500	U	ND		0.0559	mg/L	0.82	112	(0%-20%)	SKJ	02/08/23 19:17
Potassium	2.00		2.95		5.12	mg/L	1.87	109	(0%-20%)		
Selenium	0.0500	U	ND		0.0498	mg/L	1.27	99.6	(0%-20%)		
Sodium	2.00		12.5		14.4	mg/L	3.52	N/A	(0%-20%)		
Thallium	0.0500	U	ND		0.0494	mg/L	3.8	98.8	(0%-20%)		
QC1205305396 608602001 SDILT											
Antimony		U	ND	U	ND	ug/L	N/A		(0%-20%)		02/08/23 19:24
Arsenic		J	2.21	U	ND	ug/L	N/A		(0%-20%)		
Barium			49.8		9.94	ug/L	.173		(0%-20%)		
Beryllium		U	ND	U	ND	ug/L	N/A		(0%-20%)		02/07/23 18:50
Boron			147		37.0	ug/L	26.2		(0%-20%)		02/08/23 17:50
Cadmium		U	ND	U	ND	ug/L	N/A		(0%-20%)		02/08/23 19:24
Calcium			25100		5080	ug/L	1.08		(0%-20%)		
Chromium		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Cobalt		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Iron		J	50.4	U	ND	ug/L	N/A		(0%-20%)		

QC Summary

Workorder: **608602**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2374786										
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)	SKJ	02/08/23 19:24
Lithium	J	7.28	U	ND	ug/L	N/A		(0%-20%)		02/07/23 18:50
Magnesium		10800		2170	ug/L	.232		(0%-20%)		02/08/23 19:24
Manganese		396		79.8	ug/L	.655		(0%-20%)		02/09/23 11:11
Molybdenum	U	ND	U	ND	ug/L	N/A		(0%-20%)		02/08/23 19:24
Potassium		2950		585	ug/L	.814		(0%-20%)		
Selenium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Sodium		12500		2450	ug/L	1.88		(0%-20%)		
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Metals Analysis-Mercury										
Batch 2375028										
QC1205305820 608516009 DUP										
Mercury	U	ND	U	ND	mg/L	N/A			JP2	01/30/23 12:15
QC1205305819 LCS										
Mercury 0.00200				0.00188	mg/L		93.8	(80%-120%)		01/30/23 12:07
QC1205305818 MB										
Mercury			U	ND	mg/L					01/30/23 12:05
QC1205305821 608516009 MS										
Mercury 0.00200	U	ND		0.00184	mg/L		91.9	(75%-125%)		01/30/23 12:17

QC Summary

Workorder: **608602**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis-Mercury											
Batch 2375028											
QC1205305822 608516009 SDILT											
Mercury		U	ND	U	ND	ug/L	N/A		(0%-10%)	JP2	01/30/23 12:19
Solids Analysis											
Batch 2376740											
QC1205308815 608602001 DUP											
Total Dissolved Solids			156		154	mg/L	1.29		(0%-5%)	CH6	02/01/23 11:35
QC1205308813 LCS											
Total Dissolved Solids	300				302	mg/L		101	(95%-105%)		02/01/23 11:35
QC1205308812 MB											
Total Dissolved Solids				U	ND	mg/L					02/01/23 11:35
Spectrometric Analysis											
Batch 2374524											
QC1205304986 LCS											
Total Sulfide	0.400				0.402	mg/L		101	(85%-115%)	JW2	01/30/23 15:42
QC1205304985 MB											
Total Sulfide				U	ND	mg/L					01/30/23 15:42
QC1205305514 608602006 PS											
Total Sulfide	0.400	U	ND		0.438	mg/L		109	(75%-125%)		01/30/23 15:42
QC1205305515 608602006 PSD											
Total Sulfide	0.400	U	ND		0.428	mg/L	2.32	107	(0%-15%)		01/30/23 15:42
Batch 2375142											
QC1205306028 LCS											
Total Sulfide	0.400				0.413	mg/L		103	(85%-115%)	JW2	01/30/23 15:41
QC1205306027 MB											
Total Sulfide				U	ND	mg/L					01/30/23 15:41

QC Summary

Workorder: **608602**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Spectrometric Analysis												
Batch 2375142												
QC1205306031 608614004 PS												
Total Sulfide	0.400	U	ND		0.392	mg/L		96.8	(75%-125%)	JW2	01/30/23	15:42
QC1205306032 608614004 PSD												
Total Sulfide	0.400	U	ND		0.382	mg/L	2.6	94.3	(0%-15%)		01/30/23	15:42
Titration and Ion Analysis												
Batch 2378173												
QC1205311290 608567004 DUP												
Alkalinity, Total as CaCO3			82.4		82.6	mg/L	0.242		(0%-20%)	EK1	02/06/23	10:43
Bicarbonate alkalinity (CaCO3)			82.4		82.6	mg/L	0.242		(0%-20%)			
Carbonate alkalinity (CaCO3)			0.000	U	ND	mg/L	0 ^		(+/-4.00)			
QC1205311289 LCS												
Alkalinity, Total as CaCO3	100				104	mg/L		104	(90%-110%)		02/06/23	10:34
QC1205311291 608567004 MS												
Alkalinity, Total as CaCO3	100		82.4		185	mg/L		103	(80%-120%)		02/06/23	11:06

Notes:

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- N Metals--The Matrix spike sample recovery is not within specified control limits
- H Analytical holding time was exceeded
- < Result is less than value reported
- > Result is greater than value reported
- h Preparation or preservation holding time was exceeded
- R Sample results are rejected
- Z Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
- d 5-day BOD--The 2:1 depletion requirement was not met for this sample

QC Summary

Workorder: **608602**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.

N/A RPD or %Recovery limits do not apply.

ND Analyte concentration is not detected above the detection limit

E %difference of sample and SD is >10%. Sample concentration must meet flagging criteria

NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

E General Chemistry--Concentration of the target analyte exceeds the instrument calibration range

Q One or more quality control criteria have not been met. Refer to the applicable narrative or DER.

FB Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies

N1 See case narrative

Y Other specific qualifiers were required to properly define the results. Consult case narrative.

R Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.

B The target analyte was detected in the associated blank.

e 5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes

J See case narrative for an explanation

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

QC Summary

Report Date: February 27, 2023

Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia

Contact: **Joju Abraham**

Workorder: **608413**

Parmname	NOM		Sample	Qual	QC	Units	RPD%		REC%	Range	Anlst	Date Time
Ion Chromatography												
Batch 2374002												
QC1205304359 608413001 DUP												
Chloride			3.79		3.79	mg/L	0.124			(0%-20%)	HXC1	01/25/23 19:29
Fluoride		J	0.0926	J	0.0925	mg/L	0.108	^		(+/-0.100)		
Nitrate-N			0.945		0.920	mg/L	2.68	^		(+/-0.500)		01/25/23 23:05
Sulfate			0.628		0.612	mg/L	2.71	^		(+/-0.400)		01/25/23 19:29
QC1205304358 LCS												
Chloride	5.00				4.87	mg/L			97.3	(90%-110%)		01/25/23 20:31
Fluoride	2.50				2.53	mg/L			101	(90%-110%)		
Nitrate-N	2.50				2.43	mg/L			97.2	(90%-110%)		
Sulfate	10.0				9.76	mg/L			97.6	(90%-110%)		
QC1205304357 MB												
Chloride				U	ND	mg/L						01/25/23 21:02
Fluoride				U	ND	mg/L						
Nitrate-N				U	ND	mg/L						
Sulfate				U	ND	mg/L						
QC1205304360 608413001 PS												
Chloride	5.00		3.79		9.31	mg/L			110	(90%-110%)		01/25/23 20:00

QC Summary

Workorder: **608413**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography											
Batch 2374002											
Fluoride	2.50	J	0.0926		2.68	mg/L		104	(90%-110%)	HXC1	01/25/23 20:00
Nitrate-N	2.50		0.189		2.65	mg/L		98.2	(90%-110%)		01/25/23 23:36
Sulfate	10.0		0.628		10.6	mg/L		99.5	(90%-110%)		01/25/23 20:00
Metals Analysis - ICPMS											
Batch 2374301											
QC1205304629 LCS											
Antimony	0.0500				0.0512	mg/L		102	(80%-120%)	SKJ	02/01/23 18:21
Arsenic	0.0500				0.0540	mg/L		108	(80%-120%)		02/03/23 14:21
Barium	0.0500				0.0494	mg/L		98.9	(80%-120%)		02/01/23 18:21
Beryllium	0.0500				0.0599	mg/L		120	(80%-120%)		02/03/23 14:21
Boron	0.100				0.113	mg/L		113	(80%-120%)		
Cadmium	0.0500				0.0524	mg/L		105	(80%-120%)		02/01/23 18:21
Calcium	2.00				2.14	mg/L		107	(80%-120%)		
Chromium	0.0500				0.0525	mg/L		105	(80%-120%)		
Cobalt	0.0500				0.0523	mg/L		105	(80%-120%)		
Iron	2.00				2.04	mg/L		102	(80%-120%)		
Lead	0.0500				0.0549	mg/L		110	(80%-120%)		02/03/23 14:21

QC Summary

Workorder: **608413**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2374301										
Lithium	0.0500			0.0574	mg/L		115	(80%-120%)	SKJ	02/03/23 14:21
Magnesium	2.00			2.36	mg/L		118	(80%-120%)		
Manganese	0.0500			0.0508	mg/L		102	(80%-120%)		02/01/23 18:21
Molybdenum	0.0500			0.0539	mg/L		108	(80%-120%)		02/03/23 14:21
Potassium	2.00			2.08	mg/L		104	(80%-120%)		02/01/23 18:21
Selenium	0.0500			0.0500	mg/L		100	(80%-120%)		
Sodium	2.00			2.23	mg/L		111	(80%-120%)		
Thallium	0.0500			0.0526	mg/L		105	(80%-120%)		
QC1205304628 MB										
Antimony			U	ND	mg/L					02/01/23 18:18
Arsenic			U	ND	mg/L					02/03/23 14:18
Barium			U	ND	mg/L					02/01/23 18:18
Beryllium			U	ND	mg/L					02/03/23 14:18
Boron			U	ND	mg/L					
Cadmium			U	ND	mg/L					02/01/23 18:18
Calcium			U	ND	mg/L					

QC Summary

Workorder: **608413**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2374301										
Chromium			U	ND	mg/L				SKJ	02/01/23 18:18
Cobalt			U	ND	mg/L					
Iron			U	ND	mg/L					
Lead			U	ND	mg/L					02/03/23 14:18
Lithium			U	ND	mg/L					
Magnesium			U	ND	mg/L					
Manganese			U	ND	mg/L					02/01/23 18:18
Molybdenum			U	ND	mg/L					02/03/23 14:18
Potassium			U	ND	mg/L					02/01/23 18:18
Selenium			U	ND	mg/L					
Sodium			U	ND	mg/L					
Thallium			U	ND	mg/L					
QC1205304630 608410001 MS										
Antimony	0.0500	U	ND	0.0516	mg/L		103	(75%-125%)		02/01/23 18:29
Arsenic	0.0500	U	ND	0.0534	mg/L		105	(75%-125%)		02/03/23 15:08
Barium	0.0500		0.0118	0.0604	mg/L		97.3	(75%-125%)		02/01/23 18:29

QC Summary

Workorder: **608413**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2374301											
Beryllium	0.0500	U	ND		0.0578	mg/L		115	(75%-125%)	SKJ	02/06/23 16:16
Boron	0.100	U	ND		0.125	mg/L		121	(75%-125%)		02/03/23 15:08
Cadmium	0.0500	U	ND		0.0524	mg/L		105	(75%-125%)		02/01/23 18:29
Calcium	2.00		4.86		7.20	mg/L		117	(75%-125%)		
Chromium	0.0500	J	0.00950		0.0628	mg/L		107	(75%-125%)		
Cobalt	0.0500	J	0.000829		0.0532	mg/L		105	(75%-125%)		
Iron	2.00	J	0.0824		2.11	mg/L		102	(75%-125%)		
Lead	0.0500	U	ND		0.0551	mg/L		110	(75%-125%)		02/03/23 15:08
Lithium	0.0500	U	ND		0.0625	mg/L		124	(75%-125%)		
Magnesium	2.00		5.34		7.70	mg/L		118	(75%-125%)		
Manganese	0.0500		0.0348		0.0864	mg/L		103	(75%-125%)		02/01/23 18:29
Molybdenum	0.0500	U	ND		0.0549	mg/L		110	(75%-125%)		02/03/23 15:08
Potassium	2.00		0.432		2.54	mg/L		106	(75%-125%)		02/01/23 18:29
Selenium	0.0500	U	ND		0.0465	mg/L		93.1	(75%-125%)		
Sodium	2.00		3.63		5.85	mg/L		111	(75%-125%)		

QC Summary

Workorder: **608413**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2374301											
Thallium	0.0500	U	ND		0.0530	mg/L		106	(75%-125%)	SKJ	02/01/23 18:29
QC1205304631 608410001 MSD											
Antimony	0.0500	U	ND		0.0500	mg/L	3.18	99.4	(0%-20%)		02/01/23 18:32
Arsenic	0.0500	U	ND		0.0541	mg/L	1.27	106	(0%-20%)		02/03/23 15:11
Barium	0.0500		0.0118		0.0587	mg/L	3	93.7	(0%-20%)		02/01/23 18:32
Beryllium	0.0500	U	ND		0.0558	mg/L	3.42	112	(0%-20%)		02/06/23 16:18
Boron	0.100	U	ND		0.124	mg/L	0.226	121	(0%-20%)		02/03/23 15:11
Cadmium	0.0500	U	ND		0.0503	mg/L	4.08	101	(0%-20%)		02/01/23 18:32
Calcium	2.00		4.86		7.13	mg/L	0.991	113	(0%-20%)		
Chromium	0.0500	J	0.00950		0.0614	mg/L	2.16	104	(0%-20%)		
Cobalt	0.0500	J	0.000829		0.0530	mg/L	0.458	104	(0%-20%)		
Iron	2.00	J	0.0824		2.06	mg/L	2.49	99	(0%-20%)		
Lead	0.0500	U	ND		0.0543	mg/L	1.38	109	(0%-20%)		02/03/23 15:11
Lithium	0.0500	U	ND		0.0623	mg/L	0.261	123	(0%-20%)		
Magnesium	2.00		5.34		7.85	mg/L	1.81	125	(0%-20%)		
Manganese	0.0500		0.0348		0.0852	mg/L	1.43	101	(0%-20%)		02/01/23 18:32

QC Summary

Workorder: **608413**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2374301											
Molybdenum	0.0500	U	ND		0.0558	mg/L	1.5	112	(0%-20%)	SKJ	02/03/23 15:11
Potassium	2.00		0.432		2.55	mg/L	0.416	106	(0%-20%)		02/01/23 18:32
Selenium	0.0500	U	ND		0.0467	mg/L	0.333	93.4	(0%-20%)		
Sodium	2.00		3.63		5.71	mg/L	2.43	104	(0%-20%)		
Thallium	0.0500	U	ND		0.0519	mg/L	2.13	104	(0%-20%)		
QC1205304632 608410001 SDILT											
Antimony		U	ND	U	ND	ug/L	N/A		(0%-20%)		02/01/23 18:39
Arsenic		U	ND	U	ND	ug/L	N/A		(0%-20%)		02/03/23 15:17
Barium			11.8	J	2.36	ug/L	.33		(0%-20%)		02/01/23 18:39
Beryllium		U	ND	U	ND	ug/L	N/A		(0%-20%)		02/06/23 16:20
Boron		U	ND	U	ND	ug/L	N/A		(0%-20%)		02/03/23 15:17
Cadmium		U	ND	U	ND	ug/L	N/A		(0%-20%)		02/01/23 18:39
Calcium			4860		1000	ug/L	3.15		(0%-20%)		
Chromium		J	9.50	U	ND	ug/L	N/A		(0%-20%)		
Cobalt		J	0.829	U	ND	ug/L	N/A		(0%-20%)		
Iron		J	82.4	U	ND	ug/L	N/A		(0%-20%)		

QC Summary

Workorder: **608413**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2374301										
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)	SKJ	02/03/23 15:17
Lithium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Magnesium		5340		1050	ug/L	1.84		(0%-20%)		
Manganese		34.8		6.88	ug/L	1.11		(0%-20%)		02/01/23 18:39
Molybdenum	U	ND	U	ND	ug/L	N/A		(0%-20%)		02/03/23 15:17
Potassium		432	J	97.3	ug/L	12.6		(0%-20%)		02/01/23 18:39
Selenium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Sodium		3630		689	ug/L	4.95		(0%-20%)		
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Metals Analysis-Mercury										
Batch 2374419										
QC1205304806 608391001 DUP										
Mercury	U	ND	U	ND	mg/L	N/A			JP2	01/27/23 10:12
QC1205304805 LCS										
Mercury 0.00200				0.00213	mg/L		106	(80%-120%)		01/27/23 10:08
QC1205304804 MB										
Mercury			U	ND	mg/L					01/27/23 10:07
QC1205304807 608391001 MS										
Mercury 0.00200	U	ND		0.00212	mg/L		106	(75%-125%)		01/27/23 10:13

QC Summary

Workorder: **608413**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis-Mercury											
Batch 2374419											
QC1205304808 608391001 SDILT											
Mercury		U	ND	U	ND	ug/L	N/A		(0%-10%)	JP2	01/27/23 10:15
Solids Analysis											
Batch 2376170											
QC1205307926 608418001 DUP											
Total Dissolved Solids			344		341	mg/L	0.876		(0%-5%)	CH6	01/31/23 12:35
QC1205307924 LCS											
Total Dissolved Solids	300				301	mg/L		100	(95%-105%)		01/31/23 12:35
QC1205307923 MB											
Total Dissolved Solids				U	ND	mg/L					01/31/23 12:35
Spectrometric Analysis											
Batch 2374521											
QC1205304980 LCS											
Total Sulfide	0.400				0.402	mg/L		101	(85%-115%)	JW2	01/30/23 15:43
QC1205304979 MB											
Total Sulfide				U	ND	mg/L					01/30/23 15:43
QC1205304981 608410001 PS											
Total Sulfide	0.400	U	ND		0.387	mg/L		96.8	(75%-125%)		01/30/23 15:43
QC1205304983 608418002 PS											
Total Sulfide	0.400	U	ND		0.352	mg/L		86.7	(75%-125%)		01/30/23 15:43
QC1205304982 608410001 PSD											
Total Sulfide	0.400	U	ND		0.392	mg/L	1.29	98.1	(0%-15%)		01/30/23 15:43
QC1205304984 608418002 PSD											
Total Sulfide	0.400	U	ND		0.362	mg/L	2.82	89.3	(0%-15%)		01/30/23 15:43

QC Summary

Workorder: **608413**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Titration and Ion Analysis												
Batch 2375521												
QC1205307744 608651001 DUP												
Alkalinity, Total as CaCO3		H	54.8	H	54.8	mg/L	0		(0%-20%)	EK1	01/30/23	16:27
Bicarbonate alkalinity (CaCO3)		H	54.8	H	54.8	mg/L	0		(0%-20%)			
Carbonate alkalinity (CaCO3)		HU	ND	HU	ND	mg/L	N/A					
QC1205306666 LCS												
Alkalinity, Total as CaCO3	100				101	mg/L		101	(90%-110%)		01/30/23	15:14
QC1205307745 608651001 MS												
Alkalinity, Total as CaCO3	100	H	54.8	H	157	mg/L		103	(80%-120%)		01/30/23	16:31

Notes:

The Qualifiers in this report are defined as follows:

U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
N	Metals--The Matrix spike sample recovery is not within specified control limits
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
Z	Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
d	5-day BOD--The 2:1 depletion requirement was not met for this sample
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
E	%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
E	General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
FB	Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed

QC Summary

Workorder: **608413**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

invalid for reporting to regulatory agencies

N1 See case narrative

Y Other specific qualifiers were required to properly define the results. Consult case narrative.

R Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.

B The target analyte was detected in the associated blank.

e 5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes

J See case narrative for an explanation

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Technical Case Narrative
Georgia Power Company
SDG #: 608413

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 35
Analytical Batch: 2374301

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 14
Preparation Batch: 2374300

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
608413001	BRA-BRGWA-12S
608413002	BRA-BRGWA-12I
608413003	BRA-BRGWA-23S
608413004	BRA-BRGWC-32S
1205304628	Method Blank (MB)**ICP-MS**
1205304629	Laboratory Control Sample (LCS)
1205304632	608410001(BRA-BRGWA-2SL) Serial Dilution (SD)
1205304630	608410001(BRA-BRGWA-2SS) Matrix Spike (MS)
1205304631	608410001(BRA-BRGWA-2SSD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Sample 608413004 (BRA-BRGWC-32S) was diluted to ensure that the analyte concentration was within the linear calibration range of the instrument.

Analyte	608413 004
Boron	10X

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**
Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 39
Analytical Batch: 2374419

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 39
Preparation Batch: 2374418

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
608413001	BRA-BRGWA-12S
608413002	BRA-BRGWA-12I
608413003	BRA-BRGWA-23S
608413004	BRA-BRGWC-32S
1205304804	Method Blank (MB)**CVAA**
1205304805	Laboratory Control Sample (LCS)
1205304808	608391001(NonSDGL) Serial Dilution (SD)
1205304806	608391001(NonSDGD) Sample Duplicate (DUP)
1205304807	608391001(NonSDGS) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

General Chemistry

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 30
Analytical Batch: 2374002

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
608413001	BRA-BRGWA-12S
608413002	BRA-BRGWA-12I
608413003	BRA-BRGWA-23S
608413004	BRA-BRGWC-32S
1205304357	Method Blank (MB)

1205304358	Laboratory Control Sample (LCS)
1205304359	608413001(BRA-BRGWA-12S) Sample Duplicate (DUP)
1205304360	608413001(BRA-BRGWA-12S) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Sample Dilutions
The following sample 608413004 (BRA-BRGWC-32S) was diluted because target analyte concentrations exceeded the calibration range. The following samples 1205304359 (BRA-BRGWA-12SDUP), 1205304360 (BRA-BRGWA-12SPS), 608413001 (BRA-BRGWA-12S), 608413002 (BRA-BRGWA-12I), 608413003 (BRA-BRGWA-23S) and 608413004 (BRA-BRGWC-32S) in this sample group were diluted due to matrix interference. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	608413			
	001	**002**	**003**	**004**
Nitrate-N	5X	2X	2X	2X
Sulfate	1X	1X	1X	20X

Miscellaneous Information

Manual Integrations
Samples 608413002 (BRA-BRGWA-12I), 608413003 (BRA-BRGWA-23S) and 608413004 (BRA-BRGWC-32S) were manually integrated to correctly position the baseline as set in the calibration standards.

Product: Solids, Total Dissolved
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 20
Analytical Batch: 2376170

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
608413001	BRA-BRGWA-12S
608413002	BRA-BRGWA-12I
608413003	BRA-BRGWA-23S
608413004	BRA-BRGWC-32S
1205307923	Method Blank (MB)
1205307924	Laboratory Control Sample (LCS)
1205307926	608418001(BRA-BRGWC-17S) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **Sulfide, Total**
Analytical Method: SM 4500-S (2-) D
Analytical Procedure: GL-GC-E-052 REV# 12
Analytical Batch: 2374521

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
608413001	BRA-BRGWA-12S
608413002	BRA-BRGWA-12I
608413003	BRA-BRGWA-23S
608413004	BRA-BRGWC-32S
1205304979	Method Blank (MB)
1205304980	Laboratory Control Sample (LCS)
1205304981	608410001(BRA-BRGWA-2S) Post Spike (PS)
1205304982	608410001(BRA-BRGWA-2S) Post Spike Duplicate (PSD)
1205304983	608418002(BRA-BRGWC-33S) Post Spike (PS)
1205304984	608418002(BRA-BRGWC-33S) Post Spike Duplicate (PSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **Alkalinity**
Analytical Method: SM 2320B
Analytical Procedure: GL-GC-E-033 REV# 14
Analytical Batch: 2375521

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
608413001	BRA-BRGWA-12S
608413002	BRA-BRGWA-12I
608413003	BRA-BRGWA-23S
608413004	BRA-BRGWC-32S
1205306666	Laboratory Control Sample (LCS)
1205307744	608651001(NonSDG) Sample Duplicate (DUP)
1205307745	608651001(NonSDG) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Holding Times
Samples (See Below) were initially analyzed within holding; however, the holding times had expired prior to reanalysis of samples. The data is qualified.

Sample	Analyte	Value
1205307744 (Non SDG 608651001DUP)		Logged 26-JAN-23, out of holding 05-DEC-22
1205307745 (Non SDG 608651001MS)		Logged 26-JAN-23, out of holding 05-DEC-22

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Technical Case Narrative
Georgia Power Company
SDG #: 608602

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 35
Analytical Batch: 2374786

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 14
Preparation Batch: 2374785

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
608602001	BRA-PZ-44
608602002	BRA-APBCD-FD-01
608602003	BRA-BRGWC-45
608602004	BRA-APBCD-EB-04
608602005	BRA-APBCD-FB-01
608602006	BRA-BRGWC-50
608602007	BRA-BRGWC-52I
608602008	BRA-BRGWC-27I
1205305392	Method Blank (MB)**ICP-MS**
1205305393	Laboratory Control Sample (LCS)
1205305396	608602001(BRA-PZ-44L) Serial Dilution (SD)
1205305394	608602001(BRA-PZ-44S) Matrix Spike (MS)
1205305395	608602001(BRA-PZ-44SD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

CRDL/PQL Requirements
The CRDL standard recoveries for SW846 6020A/6020B met the advisory control limits with the exception of boron. Client sample concentrations were less than the MDL or greater than two times the CRDL; therefore the data were not adversely affected. 608602001 (BRA-PZ-44), 608602002 (BRA-APBCD-FD-01), 608602003 (BRA-BRGWC-45), 608602004 (BRA-APBCD-EB-04), 608602005 (BRA-APBCD-FB-01), 608602006 (BRA-BRGWC-50), 608602007 (BRA-BRGWC-52I) and 608602008 (BRA-BRGWC-27I).

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities

indigenous to the purchased standard.

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples 608602001 (BRA-PZ-44), 608602006 (BRA-BRGWC-50), 608602007 (BRA-BRGWC-52I) and 608602008 (BRA-BRGWC-27I) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument.

Analyte	608602			
	001	**006**	**007**	**008**
Boron	10X	5X	20X	10X
Calcium	1X	5X	1X	10X
Cobalt	1X	5X	1X	1X
Magnesium	1X	5X	1X	1X
Manganese	1X	100X	1X	1X
Sodium	1X	5X	1X	1X

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**
Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 39
Analytical Batch: 2375028

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 39
Preparation Batch: 2375027

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
608602001	BRA-PZ-44
608602002	BRA-APBCD-FD-01
608602003	BRA-BRGWC-45
608602004	BRA-APBCD-EB-04
608602005	BRA-APBCD-FB-01
608602006	BRA-BRGWC-50
608602007	BRA-BRGWC-52I
608602008	BRA-BRGWC-27I
1205305818	Method Blank (MB)**CVAA**
1205305819	Laboratory Control Sample (LCS)
1205305822	608516009(NonSDGL) Serial Dilution (SD)
1205305820	608516009(NonSDGD) Sample Duplicate (DUP)
1205305821	608516009(NonSDGS) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

General Chemistry

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 30
Analytical Batch: 2374768

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
608602001	BRA-PZ-44
608602002	BRA-APBCD-FD-01
608602003	BRA-BRGWC-45
608602004	BRA-APBCD-EB-04
608602005	BRA-APBCD-FB-01
608602006	BRA-BRGWC-50
608602007	BRA-BRGWC-52I
608602008	BRA-BRGWC-27I
1205305380	Method Blank (MB)
1205305381	Laboratory Control Sample (LCS)
1205305382	608602001(BRA-PZ-44) Sample Duplicate (DUP)
1205305383	608602001(BRA-PZ-44) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Matrix Spike (MS)/Post Spike (PS) Recovery Statement
The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Chloride	1205305383 (BRA-PZ-44PS)	115* (90%-110%)

Technical Information

Sample Dilutions
The following samples 1205305382 (BRA-PZ-44DUP), 1205305383 (BRA-PZ-44PS), 608602001 (BRA-PZ-44), 608602002 (BRA-APBCD-FD-01), 608602003 (BRA-BRGWC-45), 608602006

(BRA-BRGWC-50), 608602007 (BRA-BRGWC-52I) and 608602008 (BRA-BRGWC-27I) were diluted because target analyte concentrations exceeded the calibration range. The following samples 1205305382 (BRA-PZ-44DUP), 1205305383 (BRA-PZ-44PS), 608602001 (BRA-PZ-44) and 608602003 (BRA-BRGWC-45) in this sample group were diluted due to matrix interference. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	608602					
	001	**002**	**003**	**006**	**007**	**008**
Chloride	1X	10X	10X	10X	1X	1X
Nitrate-N	5X	1X	2X	1X	1X	1X
Sulfate	5X	10X	10X	200X	20X	20X

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 20
Analytical Batch: 2376740

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
608602001	BRA-PZ-44
608602002	BRA-APBCD-FD-01
608602003	BRA-BRGWC-45
608602004	BRA-APBCD-EB-04
608602005	BRA-APBCD-FB-01
608602006	BRA-BRGWC-50
608602007	BRA-BRGWC-52I
608602008	BRA-BRGWC-27I
1205308812	Method Blank (MB)
1205308813	Laboratory Control Sample (LCS)
1205308815	608602001(BRA-PZ-44) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **Sulfide, Total**
Analytical Method: SM 4500-S (2-) D
Analytical Procedure: GL-GC-E-052 REV# 12
Analytical Batch: 2374524

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
608602001	BRA-PZ-44

608602002	BRA-APBCD-FD-01
608602003	BRA-BRGWC-45
608602004	BRA-APBCD-EB-04
608602005	BRA-APBCD-FB-01
608602006	BRA-BRGWC-50
1205304985	Method Blank (MB)
1205304986	Laboratory Control Sample (LCS)
1205305514	608602006(BRA-BRGWC-50) Post Spike (PS)
1205305515	608602006(BRA-BRGWC-50) Post Spike Duplicate (PSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **Sulfide, Total**
Analytical Method: SM 4500-S (2-) D
Analytical Procedure: GL-GC-E-052 REV# 12
Analytical Batch: 2375142

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
608602007	BRA-BRGWC-52I
608602008	BRA-BRGWC-27I
1205306027	Method Blank (MB)
1205306028	Laboratory Control Sample (LCS)
1205306031	608614004(BRA-PZ-53D) Post Spike (PS)
1205306032	608614004(BRA-PZ-53D) Post Spike Duplicate (PSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **Alkalinity**
Analytical Method: SM 2320B
Analytical Procedure: GL-GC-E-033 REV# 14
Analytical Batch: 2378173

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
608602001	BRA-PZ-44
608602002	BRA-APBCD-FD-01
608602003	BRA-BRGWC-45

608602004	BRA-APBCD-EB-04
608602005	BRA-APBCD-FB-01
608602006	BRA-BRGWC-50
608602007	BRA-BRGWC-52I
608602008	BRA-BRGWC-27I
1205311289	Laboratory Control Sample (LCS)
1205311290	608567004(NonSDG) Sample Duplicate (DUP)
1205311291	608567004(NonSDG) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Technical Case Narrative
Georgia Power Company
SDG #: 608803

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 35
Analytical Batch: 2375324

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 14
Preparation Batch: 2375322

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
608803001	BRA-BRGWC-25I
608803002	BRA-BRGWC-29I
608803003	BRA-BRGWC-30I
608803004	BRA-APBCD-EB-05
608803005	BRA-APBCD-FB-02
608803006	BRA-PZ-51I
608803007	BRA-APBCD-FD-02
608803008	BRA-BRGWC-47
608803009	BRA-PZ-51D
608803010	BRA-PZ-58I
608803011	BRA-PZ-59I
608803012	BRA-PZ-60I
608803013	BRA-PZ-61I
608803014	BRA-PZ-65I
608803015	BRA-PZ-50D
1205306362	Method Blank (MB)**ICP-MS**
1205306363	Laboratory Control Sample (LCS)
1205306366	608803001(BRA-BRGWC-25IL) Serial Dilution (SD)
1205306364	608803001(BRA-BRGWC-25IS) Matrix Spike (MS)
1205306365	608803001(BRA-BRGWC-25ISD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities

indigenous to the purchased standard.

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples 608803001 (BRA-BRGWC-25I), 608803002 (BRA-BRGWC-29I), 608803003 (BRA-BRGWC-30I), 608803006 (BRA-PZ-51I), 608803007 (BRA-APBCD-FD-02), 608803008 (BRA-BRGWC-47), 608803009 (BRA-PZ-51D), 608803010 (BRA-PZ-58I), 608803011 (BRA-PZ-59I), 608803012 (BRA-PZ-60I), 608803013 (BRA-PZ-61I), 608803014 (BRA-PZ-65I) and 608803015 (BRA-PZ-50D) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument. Per the SOP, sample 608803011 (BRA-PZ-59I) was diluted due to internal standard recoveries outside the acceptable control limits.

Analyte	608803									
	001	**002**	**003**	**006**	**007**	**008**	**009**	**010**	**011**	**012**
Barium	1X	1X	1X	1X	1X	1X	1X	1X	5X	1X
Boron	20X	10X	20X	10X	10X	10X	1X	10X	1X	10X
Calcium	20X	10X	20X	10X	10X	10X	10X	10X	100X	10X
Cobalt	1X	1X	1X	1X	1X	1X	1X	1X	5X	10X
Iron	1X	1X	1X	1X	1X	1X	1X	1X	100X	1X
Lead	1X	1X	1X	1X	1X	1X	1X	1X	5X	1X
Magnesium	1X	1X	20X	10X	10X	10X	1X	10X	5X	10X
Manganese	20X	10X	20X	100X	100X	1X	10X	100X	100X	1000X
Sodium	1X	1X	1X	1X	1X	1X	10X	1X	5X	10X
Thallium	1X	1X	1X	1X	1X	1X	1X	1X	5X	1X

Analyte	608803		
	013	**014**	**015**
Boron	10X	1X	10X
Calcium	10X	10X	10X
Iron	1X	10X	1X
Magnesium	10X	10X	10X
Manganese	1000X	100X	100X
Sodium	10X	10X	1X

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**
Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 39
Analytical Batch: 2375754

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 39
Preparation Batch: 2375753

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
608803001	BRA-BRGWC-25I
608803002	BRA-BRGWC-29I
608803003	BRA-BRGWC-30I
608803004	BRA-APBCD-EB-05
608803005	BRA-APBCD-FB-02
608803006	BRA-PZ-51I
608803007	BRA-APBCD-FD-02
608803008	BRA-BRGWC-47
608803009	BRA-PZ-51D
608803010	BRA-PZ-58I
608803011	BRA-PZ-59I
608803012	BRA-PZ-60I
608803013	BRA-PZ-61I
608803014	BRA-PZ-65I
608803015	BRA-PZ-50D
1205307094	Method Blank (MB)**CVAA**
1205307095	Laboratory Control Sample (LCS)
1205307098	608803003(BRA-BRGWC-30IL) Serial Dilution (SD)
1205307096	608803003(BRA-BRGWC-30ID) Sample Duplicate (DUP)
1205307097	608803003(BRA-BRGWC-30IS) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

General Chemistry

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 30
Analytical Batch: 2375330

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
608803001	BRA-BRGWC-25I
608803002	BRA-BRGWC-29I
608803003	BRA-BRGWC-30I
608803004	BRA-APBCD-EB-05
608803005	BRA-APBCD-FB-02
608803006	BRA-PZ-51I
608803007	BRA-APBCD-FD-02
1205306396	Method Blank (MB)
1205306397	Laboratory Control Sample (LCS)
1205306398	608658011(NonSDG) Sample Duplicate (DUP)
1205306399	608658011(NonSDG) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Sample Dilutions
The following samples 1205306398 (Non SDG 608658011DUP), 1205306399 (Non SDG 608658011PS), 608803001 (BRA-BRGWC-25I), 608803002 (BRA-BRGWC-29I), 608803003 (BRA-BRGWC-30I), 608803006 (BRA-PZ-51I) and 608803007 (BRA-APBCD-FD-02) were diluted because target analyte concentrations exceeded the calibration range. The following sample 608803001 (BRA-BRGWC-25I) in this sample group was diluted due to matrix interference. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	608803				
	001	**002**	**003**	**006**	**007**
Chloride	1X	1X	1X	2X	5X
Nitrate-N	5X	1X	1X	1X	1X
Sulfate	20X	25X	100X	100X	100X

Miscellaneous Information

Manual Integrations
Samples 608803002 (BRA-BRGWC-29I) and 608803007 (BRA-APBCD-FD-02) were manually integrated to correctly position the baseline as set in the calibration standards.

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 30
Analytical Batch: 2375336

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
608803008	BRA-BRGWC-47
608803009	BRA-PZ-51D
608803010	BRA-PZ-58I
608803011	BRA-PZ-59I
608803012	BRA-PZ-60I
608803013	BRA-PZ-61I
608803014	BRA-PZ-65I
608803015	BRA-PZ-50D
1205306401	Method Blank (MB)
1205306402	Laboratory Control Sample (LCS)

1205306403	608803015(BRA-PZ-50D) Sample Duplicate (DUP)
1205306404	608803015(BRA-PZ-50D) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Matrix Spike (MS)/Post Spike (PS) Recovery Statement
The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Chloride	1205306404 (BRA-PZ-50DPS)	111* (90%-110%)

Technical Information

Sample Dilutions
The following samples 1205306403 (BRA-PZ-50DDUP), 1205306404 (BRA-PZ-50DPS), 608803008 (BRA-BRGWC-47), 608803009 (BRA-PZ-51D), 608803010 (BRA-PZ-58I), 608803011 (BRA-PZ-59I), 608803012 (BRA-PZ-60I), 608803013 (BRA-PZ-61I), 608803014 (BRA-PZ-65I) and 608803015 (BRA-PZ-50D) were diluted because target analyte concentrations exceeded the calibration range. The following samples 1205306403 (BRA-PZ-50DDUP), 1205306404 (BRA-PZ-50DPS), 608803011 (BRA-PZ-59I), 608803014 (BRA-PZ-65I) and 608803015 (BRA-PZ-50D) in this sample group were diluted due to matrix interference. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	608803							
	008	009	010	011	012	013	014	015
Chloride	1X	40X	2X	10X	5X	5X	5X	2X
Fluoride	1X	1X	1X	10X	1X	1X	1X	2X
Nitrate-N	1X	1X	1X	10X	1X	1X	5X	1X
Sulfate	200X	40X	100X	500X	200X	200X	200X	100X

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 20
Analytical Batch: 2376741

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
608803001	BRA-BRGWC-25I

608803002	BRA-BRGWC-29I
608803003	BRA-BRGWC-30I
608803004	BRA-APBCD-EB-05
608803005	BRA-APBCD-FB-02
608803006	BRA-PZ-51I
608803007	BRA-APBCD-FD-02
608803008	BRA-BRGWC-47
608803009	BRA-PZ-51D
608803010	BRA-PZ-58I
608803011	BRA-PZ-59I
608803012	BRA-PZ-60I
1205308816	Method Blank (MB)
1205308817	Laboratory Control Sample (LCS)
1205308819	608803009(BRA-PZ-51D) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 20
Analytical Batch: 2377347

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
608803013	BRA-PZ-61I
608803014	BRA-PZ-65I
608803015	BRA-PZ-50D
1205309757	Method Blank (MB)
1205309758	Laboratory Control Sample (LCS)
1205309759	608803013(BRA-PZ-61I) Sample Duplicate (DUP)
1205309760	608969004(BRA-PZ-57I) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **Sulfide, Total**
Analytical Method: SM 4500-S (2-) D
Analytical Procedure: GL-GC-E-052 REV# 12
Analytical Batch: 2375859

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
608803001	BRA-BRGWC-25I
608803002	BRA-BRGWC-29I
608803003	BRA-BRGWC-30I
608803004	BRA-APBCD-EB-05
608803005	BRA-APBCD-FB-02
608803006	BRA-PZ-51I
608803007	BRA-APBCD-FD-02
608803008	BRA-BRGWC-47
608803009	BRA-PZ-51D
608803010	BRA-PZ-58I
1205307354	Method Blank (MB)
1205307355	Laboratory Control Sample (LCS)
1205307356	608803001(BRA-BRGWC-25I) Post Spike (PS)
1205307357	608803001(BRA-BRGWC-25I) Post Spike Duplicate (PSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Matrix Spike (MS)/Post Spike (PS) Recovery Statement
The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Total Sulfide	1205307356 (BRA-BRGWC-25IPS)	67.5* (75%-125%)
	1205307357 (BRA-BRGWC-25IPSD)	69.7* (75%-125%)

Product: **Sulfide, Total**
Analytical Method: SM 4500-S (2-) D
Analytical Procedure: GL-GC-E-052 REV# 12
Analytical Batch: 2376122

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
608803011	BRA-PZ-59I
608803012	BRA-PZ-60I
608803013	BRA-PZ-61I
608803014	BRA-PZ-65I
608803015	BRA-PZ-50D
1205307835	Method Blank (MB)

1205307836	Laboratory Control Sample (LCS)
1205307839	608815006(BRA-PZ-52D) Post Spike (PS)
1205307840	608815006(BRA-PZ-52D) Post Spike Duplicate (PSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **Alkalinity**
Analytical Method: SM 2320B
Analytical Procedure: GL-GC-E-033 REV# 14
Analytical Batch: 2378066

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
608803001	BRA-BRGWC-25I
608803002	BRA-BRGWC-29I
608803003	BRA-BRGWC-30I
608803004	BRA-APBCD-EB-05
608803005	BRA-APBCD-FB-02
608803006	BRA-PZ-51I
608803007	BRA-APBCD-FD-02
608803008	BRA-BRGWC-47
608803009	BRA-PZ-51D
608803010	BRA-PZ-58I
1205311155	Laboratory Control Sample (LCS)
1205311156	608803001(BRA-BRGWC-25I) Sample Duplicate (DUP)
1205311157	608803001(BRA-BRGWC-25I) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments
<4.5 pH values were confirmed by pH strip 608803002 (BRA-BRGWC-29I), 608803007 (BRA-APBCD-FD-02) and 608803010 (BRA-PZ-58I).

Product: **Alkalinity**
Analytical Method: SM 2320B
Analytical Procedure: GL-GC-E-033 REV# 14
Analytical Batch: 2378067

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
608803011	BRA-PZ-59I
608803012	BRA-PZ-60I
608803013	BRA-PZ-61I
608803014	BRA-PZ-65I
608803015	BRA-PZ-50D
1205311158	Laboratory Control Sample (LCS)
1205313003	608803012(BRA-PZ-60I) Sample Duplicate (DUP)
1205313004	608803012(BRA-PZ-60I) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments
pH value <4.5 was validated by pH strip 608803011 (BRA-PZ-59I).

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Technical Case Narrative
Georgia Power Company
SDG #: 608969

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 35
Analytical Batch: 2376276

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 14
Preparation Batch: 2376275

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
608969001	BRA-PZ-66I
608969002	BRA-APBCD-FB-03
608969003	BRA-APBCD-EB-06
608969004	BRA-PZ-57I
608969005	BRA-APBCD-FD03
608969006	BRA-PZ-63I
608969007	BRA-PZ-62I
608969008	BRA-PZ-51S
608969009	BRA-PZ-64I
1205308093	Method Blank (MB)**ICP-MS**
1205308094	Laboratory Control Sample (LCS)
1205308097	608969001(BRA-PZ-66IL) Serial Dilution (SD)
1205308095	608969001(BRA-PZ-66IS) Matrix Spike (MS)
1205308096	608969001(BRA-PZ-66ISD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Quality Control (QC) Information

Serial Dilution % Difference Statement
The serial dilution is used to assess matrix suppression or enhancement. Raw element concentrations 25x the

IDL/MDL for CVAA, 50X the IDL/MDL for ICP and 100X the IDL/MDL for ICP-MS analyses are applicable for serial dilution assessment. Not all the applicable analytes were within the established acceptance criteria. Matrix suppression may be suspected. The data has been qualified.

Sample	Analyte	Value
1205308097 (BRA-PZ-66ISDILT)	Calcium	24.4 *(0%-20%)
	Magnesium	22.5 *(0%-20%)
	Sodium	25.2 *(0%-20%)

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples 608969001 (BRA-PZ-66I), 608969004 (BRA-PZ-57I), 608969005 (BRA-APBCD-FD03), 608969006 (BRA-PZ-63I), 608969007 (BRA-PZ-62I), 608969008 (BRA-PZ-51S) and 608969009 (BRA-PZ-64I) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument.

Analyte	608969						
	001	004	005	006	007	008	009
Boron	1X	5X	5X	10X	5X	1X	1X
Calcium	10X	5X	5X	1X	5X	1X	10X
Cobalt	1X	1X	1X	1X	1X	1X	20X
Magnesium	10X	5X	5X	1X	5X	1X	10X
Manganese	500X	100X	100X	10X	100X	5X	500X
Sodium	10X	1X	1X	1X	1X	1X	5X

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**
Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 39
Analytical Batch: 2376750

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 39
Preparation Batch: 2376749

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
608969001	BRA-PZ-66I
608969002	BRA-APBCD-FB-03
608969003	BRA-APBCD-EB-06
608969004	BRA-PZ-57I
608969005	BRA-APBCD-FD03
608969006	BRA-PZ-63I
608969007	BRA-PZ-62I
608969008	BRA-PZ-51S

608969009	BRA-PZ-64I
1205308830	Method Blank (MB)**CVAA**
1205308831	Laboratory Control Sample (LCS)
1205308834	609006008(NonSDGL) Serial Dilution (SD)
1205308832	609006008(NonSDGD) Sample Duplicate (DUP)
1205308833	609006008(NonSDGS) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

General Chemistry

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 30
Analytical Batch: 2376273

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
608969001	BRA-PZ-66I
608969002	BRA-APBCD-FB-03
608969003	BRA-APBCD-EB-06
608969004	BRA-PZ-57I
608969005	BRA-APBCD-FD03
608969006	BRA-PZ-63I
608969007	BRA-PZ-62I
608969008	BRA-PZ-51S
608969009	BRA-PZ-64I
1205308088	Method Blank (MB)
1205308089	Laboratory Control Sample (LCS)
1205308090	608969009(BRA-PZ-64I) Sample Duplicate (DUP)
1205308091	608969009(BRA-PZ-64I) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Sample Dilutions
The following samples 1205308090 (BRA-PZ-64IDUP), 1205308091 (BRA-PZ-64IPS), 608969001 (BRA-PZ-66I), 608969004 (BRA-PZ-57I), 608969005 (BRA-APBCD-FD03), 608969006 (BRA-PZ-63I), 608969007 (BRA-PZ-62I) and 608969009 (BRA-PZ-64I) were diluted because target analyte concentrations exceeded the calibration range. Dilutions may be required for many reasons, including to minimize matrix

interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	608969					
	001	**004**	**005**	**006**	**007**	**009**
Chloride	5X	1X	5X	1X	5X	10X
Sulfate	200X	200X	200X	25X	100X	500X

Sample Re-analysis
Sample 608969002 (BRA-APBCD-FB-03) was re-analyzed due to (its) proximity to an overrange sample. The results from the reanalysis are reported. Sample 608969002 (BRA-APBCD-FB-03) was re-analyzed to verify the result.

Miscellaneous Information

Manual Integrations
Samples 1205308090 (BRA-PZ-64IDUP) and 608969008 (BRA-PZ-51S) were manually integrated to correctly position the baseline as set in the calibration standards.

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 20
Analytical Batch: 2377347

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
608969001	BRA-PZ-66I
608969002	BRA-APBCD-FB-03
608969003	BRA-APBCD-EB-06
608969004	BRA-PZ-57I
608969005	BRA-APBCD-FD03
608969006	BRA-PZ-63I
608969007	BRA-PZ-62I
608969008	BRA-PZ-51S
608969009	BRA-PZ-64I
1205309757	Method Blank (MB)
1205309758	Laboratory Control Sample (LCS)
1205309759	608803013(BRA-PZ-61I) Sample Duplicate (DUP)
1205309760	608969004(BRA-PZ-57I) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **Sulfide, Total**

Analytical Method: SM 4500-S (2-) D
Analytical Procedure: GL-GC-E-052 REV# 12
Analytical Batch: 2376122

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
608969005	BRA-APBCD-FD03
608969006	BRA-PZ-63I
608969007	BRA-PZ-62I
608969008	BRA-PZ-51S
1205307835	Method Blank (MB)
1205307836	Laboratory Control Sample (LCS)
1205307839	608815006(BRA-PZ-52D) Post Spike (PS)
1205307840	608815006(BRA-PZ-52D) Post Spike Duplicate (PSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **Sulfide, Total**
Analytical Method: SM 4500-S (2-) D
Analytical Procedure: GL-GC-E-052 REV# 12
Analytical Batch: 2377896

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
608969001	BRA-PZ-66I
608969002	BRA-APBCD-FB-03
608969003	BRA-APBCD-EB-06
608969004	BRA-PZ-57I
608969009	BRA-PZ-64I
1205310859	Method Blank (MB)
1205310860	Laboratory Control Sample (LCS)
1205310863	609152001(BRA-IW-B-2) Post Spike (PS)
1205310864	609152001(BRA-IW-B-2) Post Spike Duplicate (PSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Matrix Spike (MS)/Post Spike (PS) Recovery Statement
The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is

less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Total Sulfide	1205310863 (BRA-IW-B-2PS)	45.7* (75%-125%)
	1205310864 (BRA-IW-B-2PSD)	47* (75%-125%)

Product: **Alkalinity**
Analytical Method: SM 2320B
Analytical Procedure: GL-GC-E-033 REV# 14
Analytical Batch: 2382211

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
608969001	BRA-PZ-66I
608969002	BRA-APBCD-FB-03
608969003	BRA-APBCD-EB-06
608969004	BRA-PZ-57I
608969005	BRA-APBCD-FD03
608969006	BRA-PZ-63I
608969007	BRA-PZ-62I
608969008	BRA-PZ-51S
608969009	BRA-PZ-64I
1205317832	Laboratory Control Sample (LCS)
1205317833	608969001(BRA-PZ-66I) Sample Duplicate (DUP)
1205317834	608969001(BRA-PZ-66I) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Technical Case Narrative
Georgia Power Company
SDG #: 609212

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 35
Analytical Batch: 2377747

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 14
Preparation Batch: 2377746

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
609212001	BRA-PZ-68D
609212002	BRA-PZ-69I
1205310467	Method Blank (MB)**ICP-MS**
1205310468	Laboratory Control Sample (LCS)
1205310471	609211001(BRA-IW-B-1L) Serial Dilution (SD)
1205310469	609211001(BRA-IW-B-1S) Matrix Spike (MS)
1205310470	609211001(BRA-IW-B-1SD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument.

Analyte	609212	
	001	002
Boron	5X	10X

Calcium	5X	10X

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**
Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 39
Analytical Batch: 2378878

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 39
Preparation Batch: 2378875

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
609212001	BRA-PZ-68D
609212002	BRA-PZ-69I
1205312141	Method Blank (MB)**CVAA**
1205312142	Laboratory Control Sample (LCS)
1205312145	609438010(NonSDGL) Serial Dilution (SD)
1205312143	609438010(NonSDGD) Sample Duplicate (DUP)
1205312144	609438010(NonSDGS) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

General Chemistry

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 30
Analytical Batch: 2377739

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
609212001	BRA-PZ-68D
609212002	BRA-PZ-69I
1205310453	Method Blank (MB)
1205310454	Laboratory Control Sample (LCS)
1205310455	609211001(BRA-IW-B-1) Sample Duplicate (DUP)
1205310456	609211001(BRA-IW-B-1) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Matrix Spike (MS)/Post Spike (PS) Recovery Statement
The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Chloride	1205310456 (BRA-IW-B-1PS)	114* (90%-110%)

Technical Information

Sample Dilutions
The following samples 1205310455 (BRA-IW-B-1DUP), 1205310456 (BRA-IW-B-1PS), 609212001 (BRA-PZ-68D) and 609212002 (BRA-PZ-69I) were diluted because target analyte concentrations exceeded the calibration range. The following samples 1205310455 (BRA-IW-B-1DUP) and 1205310456 (BRA-IW-B-1PS) in this sample group were diluted due to matrix interference. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	609212	
	001	002
Chloride	20X	1X
Sulfate	20X	20X

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 20
Analytical Batch: 2379677

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
609212001	BRA-PZ-68D
609212002	BRA-PZ-69I
1205313477	Method Blank (MB)
1205313478	Laboratory Control Sample (LCS)
1205313479	609435002(NonSDG) Sample Duplicate (DUP)
1205314103	609211001(BRA-IW-B-1) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments
Sample filtration took > 10 minutes; therefore as prescribed in the method, a reduced aliquot was used. 1205314103 (BRA-IW-B-1DUP).

Product: **Sulfide, Total**
Analytical Method: SM 4500-S (2-) D
Analytical Procedure: GL-GC-E-052 REV# 12
Analytical Batch: 2377896

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
609212001	BRA-PZ-68D
609212002	BRA-PZ-69I
1205310859	Method Blank (MB)
1205310860	Laboratory Control Sample (LCS)
1205310863	609152001(BRA-IW-B-2) Post Spike (PS)
1205310864	609152001(BRA-IW-B-2) Post Spike Duplicate (PSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Matrix Spike (MS)/Post Spike (PS) Recovery Statement
The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Total Sulfide	1205310863 (BRA-IW-B-2PS)	45.7* (75%-125%)
	1205310864 (BRA-IW-B-2PSD)	47* (75%-125%)

Product: **Alkalinity**
Analytical Method: SM 2320B
Analytical Procedure: GL-GC-E-033 REV# 14

Analytical Batch: 2382489

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
609212001	BRA-PZ-68D
609212002	BRA-PZ-69I
1205318635	Laboratory Control Sample (LCS)
1205318636	609152001(BRA-IW-B-2) Sample Duplicate (DUP)
1205318637	609152001(BRA-IW-B-2) Matrix Spike (MS)
1205319654	609212001(BRA-PZ-68D) Sample Duplicate (DUP)
1205319655	609212001(BRA-PZ-68D) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Page: _____ of _____
Project # _____
GEL Quote #: _____
COC Number [1]: _____
PO Number:

608969
608972

GEL Laboratories LLC
gel.com
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power | Phone # 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - BCD | Fax #
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: J. Berlin ACC | Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS, NO3 EPA 300, SM 2540C	Total & Dicarb Alk SM 2320B	Metals * EPA 6020, 6010, 7470 (NI)	Radium 226 & 228 SW-846 9315, 9320 (NI)	Sulfide SM 4500	<-- Preservative Type (6)
BRA-PZ-66I	01/30/23 ~~02/03/23~~ (83)	1420	G	N	WG			8	✓	✓	✓	✓	✓	field pH = 5.64; field ferrous iron = 6.0
BRA-APBCD-FB-03	01/30/23 ~~02/03/23~~ (83)	1350	G	N	WQ			8	✓	✓	✓	✓	✓	field pH = —; field ferrous iron = —
BRA-APBCD-EB-0006	01/30/23 ~~02/03/23~~ (83)	1515	G	N	WQ			8	✓	✓	✓	✓	✓	field pH = —; field ferrous iron = —
BRA-PZ-57I	01/30/23 ~~02/03/23~~ (83)	1425	G	N	WG			8	✓	✓	✓	✓	✓	field pH = 5.39; field ferrous iron = 1.0
BRA-APBCD-FD-03	01/30/23 ~~02/03/23~~ (83)	—	G	N	WG			8	✓	✓	✓	✓	✓	field pH = —; field ferrous iron = —

Comments
Note: extra sample is required for sample specific QC
Task_Code: BRA-CCR-ASSMT-2023S1

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	[signature]	~~1/31/23~~ (83)	1800	[signature]	1/30/23	1800
2	[signature]	1/31/23	0901	[signature]	1/31/23	901
3						

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

TAT Requested: Normal: x Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [x] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] Level 1 [x] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] Yes [ ] No *Cooler Temp:* 2 °C

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.

4.) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. *8260B*, *6010B/7470A*) and number of containers provided for each (i.e. *8260B* - 3, *6010B/7470A* - 1).

6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic Hg= Mercury
Ba = Barium Se= Selenium
Cd = Cadmium Ag= Silver
Cr = Chromium MR= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

Page: _____ of _____
Project # _____
GEL Quote #: _____
COC Number [1]: _____
PO Number:

GEL Laboratories LLC
gel.com
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number:

GEL Project Manager: Erin Trent

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power | Phone # 404-506-7116

Project/Site Name: Plant Branch Ash Ponds - BCD | Fax #

Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308

Collected By: J. Gaskin ACC | Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS, NO3 EPA 300, SM 2540C	Total & Bicarb Alk SM 2320B	Metals * EPA 6020, 6010, 7470 (NI)	Radium 226 & 228 SW-846 9315, 9320 (NI)	Sulfide SM 4500	<-- Preservative Type (6)
BRA- PZ-63I	01/30/23 ~~02/03/23~~ (55)	1340	G	N	WG			8	✓	✓	✓	✓	✓	field pH = 5.66 field ferrous iron = 1.0
BRA- PZ-62S	01/30/23 ~~02/03/23~~ (55)	1300	G	N	WG			8	✓	✓	✓	✓	✓	field pH = 5.38 field ferrous iron = 0.5
BRA- PZ-51S	01/30/23 ~~02/03/23~~ (55)	1530	G	N	WG			8	✓	✓	✓	✓	✓	field pH = 6.18 field ferrous iron = 0.0
BRA- PZ-64I	01/30/23 ~~02/03/23~~ (55)	1700	G	N	WG			8	✓	✓	✓	✓	✓	field pH = 5.33 field ferrous iron = 0.0
BRA-														field pH = field ferrous iron =

Comments
Note: extra sample is required for sample specific QC
Task Code: BRA-CCR-ASSMT-2023S1

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	[signature] (3)	~~2/3/23~~ 1/30/23	1800	[signature]	1/30/23	1800
2	[signature]	1/31/23	0901	[signature] Stacy Boom	1/31/23	901
3						

TAT Requested: Normal: X Rush: ____ Specify: _____ (Subject to Surcharge)

Fax Results: [ ] Yes [x] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [x] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg

For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No *Cooler Temp:* 1 °C

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.

4.) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. *8260B*, *6010B/7470A*) and number of containers provided for each (i.e. *8260B* - 3, *6010B/7470A* - 1).

6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic Hg = Mercury
Ba = Barium Se = Selenium
Cd = Cadmium Ag = Silver
Cr = Chromium MR = Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW = Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT = Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, tritiums, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e. Origin of sample(s), type of site collected from, odd matrices, etc.)

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM ET

Client: GPCC	**SDG/AR/COC/Work Order:** 608969 608972
Received By: MVH	**Date Received:** 01-31-2023
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services (Courier) Other Cooler 3 - 1 Cooler 2 - 2 Cooler 1 - 1

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 0 CPM / mR/Hr **Classified as: Rad 1 Rad 2 Rad 3**
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	**Comments/Qualifiers (Required for Non-Conforming Items)**
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: Wet Ice Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius **TEMP:**_____
4	Daily check performed and passed on IR temperature gun?	✓			**Temperature Device Serial #:** IR2-21 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?			✓	Sample ID's and Containers Affected: BRA-P2-571, BRA-P2-661, BRA-P2-641 If Preservation added, Lot#: 23H-13 Sodium Hydroxide
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials AM Date 2/1/23 Page 1 of 1

GL-CHL-SR-001 Rev 7

Page: _____ of _____
Project # _____
GEL Quote #: _____
COC Number [1]: _____
PO Number:

608413
608416

GEL Laboratories LLC
gel.com
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power | Phone # 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - BCD | Fax #
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: J. Bostick ACC | Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS, NO3 EPA 300, SM 2540C	Total & Bicarb Alk SM 2320B	NI Metals * EPA 6020, 6010, 7470	NI Radium 226 & 228 SW-846 9315, 9320	Sulfide SM 4500	<-- Preservative Type (6)	Comments
BRA-BRGWA-125	01/24/23	1310	G	N	WG			8	✓	✓	✓	✓	✓	field pH = 5.97 field ferrous iron = 0.0	Note: extra sample is required for sample specific QC **Task_Code: BRA-CCR-ASSMT-2023S1**
BRA-BRGWA-121	01/24/23	1450	G	N	WG			8	✓	✓	✓	✓	✓	field pH = 6.48 field ferrous iron = 0.0	
BRA-1313GWA-235	01/24/23	1415	G	N	WG			8	✓	✓	✓	✓	✓	field pH = 5.76 field ferrous iron = 0.0	
BRA-BRGWC-325	01/24/23	1541	G	N	WG			8	✓	✓	✓	✓	✓	field pH = 6.05 field ferrous iron = 0.0	
BRA-														field pH = field ferrous iron =	

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	1/25/23	0824	1	1/25/23	0829
2	1/25/23	1338	2	1.25.23	1338
3			3		

TAT Requested: Normal: x Rush: ____ Specify: _____ (Subject to Surcharge)

Fax Results: [ ] Yes [x] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [x] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * **Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg**

For Lab Receiving Use Only: Custody Seal Intact? [ ] *Yes* [ ] *No* *Cooler Temp:* ____ °C

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **WD**=Drinking Water, **WG**=Groundwater, **WS**=Surface Water, **WW**=Waste Water, **WL**=Leachate, **SO**=Soil, **SE**=Sediment, **SL**=Sludge, **WQ**=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	**SDG/AR/COC/Work Order:** 608413 608416
Received By: PG	**Date Received:** 1/25/23
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services (Courier) Other

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		X	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		X	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		X	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 (CPM) mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?		X	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		X	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	X			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	X			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	X			Preservation Method: (Wet Ice) Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: 1
4	Daily check performed and passed on IR temperature gun?	X			Temperature Device Serial #: IR1-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	X			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	X			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			X	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	X			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	X			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	X			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	X			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	X			
13	COC form is properly signed in relinquished/received sections?	X			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials AM Date 1/26/23 Page 1 of 1

Page: 1 of 1
Project #
GEL Quote #:
COC Number (1):
PO Number:

609212

GEL Laboratories LLC
gel.com
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power | Phone # 404-506-7116

Project/Site Name: Plant Branch Ash Ponds - BCD | Fax #

Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308

Collected By: T. Gable ACC | Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS, NO3 EPA 300, SM 2540C	Total, Carb, & Bicarb Alk SM 2320B	Metals * EPA 6020, 6010, 7470 (NI)	Radium 226 & 228 SW-846 9315, 9320 (NI)	Sulfide SM 4500	<-- Preservative Type (6)
BRA- PZ-68D	02/01/23	1416	G	N	WG	N	N	8	✓	✓	✓	✓	✓	field pH = 7.28; field ferrous iron = 0.0
BRA- PZ-69I	02/01/23	1247	G	N	WG	N	N	8	✓	✓	✓	✓	✓	field pH = 6.14; field ferrous iron = 0.0

Comments
Note: extra sample is required for sample specific QC
Task_Code: BRA-CCR-ASSMT-2023S1

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	Tarsha Gable	2-2-23	0959		2/2/23	9:59
2		2/2/23	2:20	Shyassia Johnson	2/2/23	2:20
3						

TAT Requested: Normal: x Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [x] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [x] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * **Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* *Cooler Temp:* ____ °C

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a **- Y -** for yes the sample was field filtered or **- N -** for sample was not field filtered.

4.) Matrix Codes: **WD**=Drinking Water, **WG**=Groundwater, **WS**=Surface Water, **WW**=Waste Water, **WL**=Leachate, **SO**=Soil, **SE**=Sediment, **SL**=Sludge, **WQ**=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	SDG/AR/COC/Work Order: 609211 | 609212
Received By: Stacy Boone	Date Received: 2/2/2023
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A) Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM / uR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: Wet Ice Ice Packs Dry Ice None Other: *all temperatures are recorded in Celsius TEMP: 1°c
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR3-22 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials AM Date 2/3/23 Page 1 of 1

GL-CHL-SR-001 Rev 7

Page: _____ of _____
Project # _____
GEL Quote #: _____
COC Number [1]: _____
PO Number:

608803 GEL Laboratories LLC 608813
gel.com Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power | Phone # 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - BCD | Fax #
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: J. Barnard ACC | Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS, NO3 EPA 300, SM 2540C	Total & Bicarb Alk SM 2320B	Metals * EPA 6020, 6010, 7470 (NI)	Radium 226 & 228 SW-846 9315, 9320 (NI)	Sulfide SM 4500	<-- Preservative Type (6)	Comments
BRA-BRGWC-25I	01/26/23	1015	G	N	WG			8	✓	✓	✓	✓	✓	field pH = 6.18 field ferrous iron = 0.0	Note: extra sample is required for sample specific QC **Task_Code: BRA-CCR-ASSMT-2023S1**
BRA-BRGWC-29I	01/26/23	1130	G	N	WG			8	✓	✓	✓	✓	✓	field pH = 4.30 field ferrous iron = 5.0	
BRA-BRGWC-30I	01/26/23	1105	G	N	WG			8	✓	✓	✓	✓	✓	field pH = 6.28 field ferrous iron = 0.0	
BRA-APBCD-EB-05	01/26/23	~~1500~~ 1610 GD	G	N	WQ			8	✓	✓	✓	✓	✓	field pH = N/A field ferrous iron = N/A	
BRA-APBCD-FB-02	01/26/23	1425	G	N	WQ			8	✓	✓	✓	✓	✓	field pH = N/A field ferrous iron = N/A	

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1		1/27/23	0950		1/27/23	950
2		1/27/23	213		1/27/23	213
3						

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

TAT Requested: Normal: x Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [x] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [x] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * **Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] Yes [ ] No *Cooler Temp:* ____ °C

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **WD**=Drinking Water, **WG**=Groundwater, **WS**=Surface Water, **WW**=Waste Water, **WL**=Leachate, **SO**=Soil, **SE**=Sediment, **SL**=Sludge, **WQ**=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B, 6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**)

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

Page: _____ of _____
Project # _____
GEL Quote #: _____
COC Number [1]: _____
PO Number:

GEL Laboratories LLC
gel.com
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: **GEL Project Manager: Erin Trent**

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power | Phone # 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - BCD | Fax #
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: J. Brasfield ACC | Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS, NO3 EPA 300, SM 2540C	Total & Bicarb Alk SM 2320B	Metals * EPA 6020, 6010, 7470	Radium 226 & 228 SW-846 9315, 9320	Sulfide SM 4500	<-- Preservative Type (6)	Comments
BRA- ~~BRGWC-25I~~ (05) BRA-PZ-51I	01/26/23	1200	G	N	WG			8	✓	✓	✓	✓	✓	field pH = 5.44	Note: extra sample is required for sample specific QC
														field ferrous iron = 0.0	Task_Code: BRA-CCR-ASSMT-2023S1
BRA- APBCD-FD-02	01/26/23	—	G	N	WG			8	✓	✓	✓	✓	✓	field pH = N/A —	
														field ferrous iron = N/A —	
BRA- BRGWC-47	01/26/23	1333	G	N	WG			8	✓	✓	✓	✓	✓	field pH = 5.65	
														field ferrous iron = 0.0	
BRA- PZ-51D	01/26/23	0950	G	N	WG			8	✓	✓	✓	✓	✓	field pH = 7.20	
														field ferrous iron = 1.0	
BRA- PZ-58I	01/26/23	1500	G	N	WG			8	✓	✓	✓	✓	✓	field pH = 3.93	
														field ferrous iron = 4.0	

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1		1/27/23	0950		1/27/23	950
2		1/27/23	213		1/27/23	213
3						

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

TAT Requested: Normal: x Rush: ____ Specify: _____ (Subject to Surcharge)

Fax Results: [ ] Yes [x] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [x] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] Yes [ ] No *Cooler Temp:* ____ °C

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.

4.) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. *8260B* - 3, *6010B/7470A* - 1).

6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic Hg= Mercury
Ba = Barium Se= Selenium
Cd = Cadmium Ag= Silver
Cr = Chromium MR= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

Page: _____ of _____
Project # _____
GEL Quote #: _____
COC Number [1]: _____
PO Number:

GEL Laboratories LLC
gel.com
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: **GEL Project Manager: Erin Trent**

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power | Phone # 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - BCD | Fax #
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: J. Bradford ACC | Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS, NO3 EPA 300, SM 2540C	Total & Bicarb Alk SM 2320B	Metals * EPA 6020, 6010, 7470 NI	Radium 226 & 228 SW-846 9315, 9320 NI	Sulfide SM 4500	<-- Preservative Type (6)
BRA- PZ-59I	01/26/23	1317	G	N	WG			8	✓	✓	✓	✓	✓	field pH = 3.78 field ferrous iron = 6.5
BRA- PZ-60I	01/26/23	1505	G	N	WG			8	✓	✓	✓	✓	✓	field pH = 4.60 field ferrous iron = ~~0.05~~ 0.5
~~BRA- PZ-61I~~ BRA-PZ-61I	01/26/23	1410	G	N	WG			8	✓	✓	✓	✓	✓	field pH = 5.16 field ferrous iron = 0.5
BRA- PZ-65I	01/26/23	1645	G	N	WG			8	✓	✓	✓	✓	✓	field pH = 4.06 field ferrous iron = 6.0
BRA- PZ-50D	01/27/23	0840	G	N	WG			8	✓	✓	✓	✓	✓	field pH = 6.24 field ferrous iron = 4.5

Comments
Note: extra sample is required for sample specific QC
Task_Code: BRA-CCR-ASSMT-2023S1

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1		1/27/23	0945		1/27/23	950
2		1/27/23	2:13		1/27/23	2213
3						

TAT Requested: Normal: x Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [x] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [x] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * **Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg**

For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No *Cooler Temp:* ____ °C

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **WD**=Drinking Water, **WG**=Groundwater, **WS**=Surface Water, **WW**=Waste Water, **WL**=Leachate, **SO**=Soil, **SE**=Sediment, **SL**=Sludge, **WQ**=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B, 6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	SDG/AR/COC/Work Order: 608803, 608813 ET
Received By: Thyasia Tatum	Date Received: 1-27-23
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier (Other)

Suspected Hazard Information	Yes	No	
			*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM / mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: (Wet Ice) Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: 1C
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR2-20 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓		✓	
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials AD Date 1/31/23 Page 1 of 1

GL-CHL-SR-001 Rev 7

Page: _____ of _____
Project # _____
GEL Quote #: _____
COC Number [1]: _____
PO Number:

608602 608609

GEL Laboratories LLC
gel.com Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power | Phone # 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - BCD | Fax #
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: J. Burns Ed ACC | Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS, NO3 EPA 300, SM 2540C	Total & Bicarb Alk SM 2320B	Metals * EPA 6020, 6010, 7470 (NI)	Radium 226 & 228 SW-846 9315, 9320 (NI)	Sulfide SM 4500	<-- Preservative Type (6)	Comments
BRA-PZ-44	01/25/23	1325	G	N	WG			8	✓	✓	✓	✓	✓		field pH = 6.13; field ferrous iron = 0.0
BRA-APBCD-FD-01	01/25/23	—	G	N	WG			8	✓	✓	✓	✓	✓		field pH = N/A; field ferrous iron = —
BRA-BRGWC-415	01/25/23	1440	G	N	WG			8	✓	✓	✓	✓	✓		field pH = 5.82; field ferrous iron = 0.0
BRA-APBCD-EB-04	01/25/23	1630	G	N	WQ			8	✓	✓	✓	✓	✓		field pH = N/A; field ferrous iron = —
BRA-APBCD-FB-01	01/25/23	1305	G	N	WQ			8	✓	✓	✓	✓	✓		field pH = N/A; field ferrous iron = —

Comments
Note: extra sample is required for sample specific QC
Task_Code: BRA-CCR-ASSMT-2023S1

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	[signature]	1/26/23	0828	[signature]	1/26/23	8:28
2	[signature]	1/26/23	1115	[signature]	1/26/23	11:5
3						

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

TAT Requested: Normal: x Rush: _____ Specify: _____ (Subject to Surcharge)

Fax Results: [ ] Yes [x] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [x] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * **Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg**

For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No *Cooler Temp:* _____ °C

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **WD**=Drinking Water, **WG**=Groundwater, **WS**=Surface Water, **WW**=Waste Water, **WL**=Leachate, **SO**=Soil, **SE**=Sediment, **SL**=Sludge, **WQ**=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B, 6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

Page: _____ of _____
Project # _____
GEL Quote #: _____
COC Number [1]: _____
PO Number:

GEL Laboratories LLC
gel.com
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power | Phone # 404-506-7116

Project/Site Name: Plant Branch Ash Ponds - BCD | Fax #

Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308

Collected By: J. Benford ACC | Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS, NO3 EPA 300, SM 2540C	Total & Bicarb Alk SM 2320B	Metals * EPA 6020, 6010, 7470 (NI)	Radium 226 & 228 SW-846 9315, 9320 (NI)	Sulfide SM 4500	<-- Preservative Type (6)	Comments
BRA-BRGWC-50	01/25/23	1325	G	N	WG			8	✓	✓	✓	✓	✓		field pH = 5.18 field ferrous iron = 0.0
BRA-BRGWC-52I	01/25/23	1510	G	N	WG			8	✓	✓	✓	✓	✓		field pH = 6.25 field ferrous iron = 1.0
BRA-BRGWC-27I	01/25/23	1345	G	N	WG			8	✓	✓	✓	✓	✓		field pH = 5.63 field ferrous iron = 0.0
BRA-															field pH = field ferrous iron =
BRA-															field pH = field ferrous iron =

Note: extra sample is required for sample specific QC
Task_Code: BRA-CCR-ASSMT-2023S1

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	1/26/23	0826	1	1/26/23	8:26
2	1/26/23	1:15	2	1/26/23	15
3			3		

TAT Requested: Normal: x Rush: _____ Specify: _____ (Subject to Surcharge)

Fax Results: [ ] Yes [x] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [x] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * **Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg**

For Lab Receiving Use Only: Custody Seal Intact? [ ] *Yes* [ ] *No* *Cooler Temp:* _____ °C

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.

4.) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. *8260B*, *6010B/7470A*) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - 1).

6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic; Hg= Mercury
Ba = Barium; Se= Selenium
Cd = Cadmium; Ag= Silver
Cr = Chromium; MR= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

608602
608609

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	SDG/AR/COC/Work Order:
Received By: Stacy Boone	Date Received: JAN 26, 2023
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A) Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 8 CPM / mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: Wet Ice Ice Packs Dry ice None Other: TEMP: 1 c x 5 *all temperatures are recorded in Celsius
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR3-22 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials AD Date 1/27/23 Page 1 of 1

GL-CHL-SR-001 Rev 7

Anna Johnson

From: Adrian Melendrez
Sent: Wednesday, February 1, 2023 2:18 PM
To: JABRAHAM@SOUTHERNCO.COM; KNJURINK@SOUTHERNCO.COM; MJSMILLE@SOUTHERNCO.COM; MJSMILLE@SOUTHERNCO.COM; NSMUSKUS@SOUTHERNCO.COM; lbmidkif@southernco.com
Cc: Team Trent
Subject: RE: Preservation 608969

CCing the correct team address.

From: Adrian Melendrez
Sent: Wednesday, February 1, 2023 2:16 PM
To: JABRAHAM@SOUTHERNCO.COM; KNJURINK@SOUTHERNCO.COM; MJSMILLE@SOUTHERNCO.COM; MJSMILLE@SOUTHERNCO.COM; NSMUSKUS@SOUTHERNCO.COM; lbmidkif@southernco.com
Cc: Team Boddiford <Team.Boddiford@gel.com>
Subject: Preservation 608969

Notifying you that these samples were preserved with sodium hydroxide upon arrival. No reply is necessary just wanted to keep you in the loop.

- BRA-PZ-57I
- BRA-PZ-66I
- BRA-PZ-64I

Thanks!

-Adrian

Adrian Melendrez
Project Manager Assistant

GEL Laboratories LLC

2040 Savage Road, Charleston, SC 29407 | PO Box 30712, Charleston, SC 29417
Office Main: 843.556.8171 EXT 4409| Fax: 843.766.1178
E-Mail: Adrian.Melendrez@gel.com| Website: www.gel.com
Analytical Testing

List of current GEL Certifications as of 24 February 2023

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122023-4
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2022-160
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-22-20
Utah NELAP	SC000122022-37
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

March 03, 2022

Joju Abraham
Georgia Power-CCR
2480 Maner Road
Atlanta, GA 30339

RE: Project: BRANCH AP-BCD
Pace Project No.: 92585977

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between February 03, 2022 and February 04, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte
- Pace Analytical Services - Peachtree Corners, GA
- Pace Analytical Services - Minneapolis
- Pace Analytical Services - Ormond Beach

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Nicole D'Oleo

Nicole D'Oleo
nicole.d'oleo@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Anna Bottum, ERM
Andrea Brazell, ERM
Daniela Herrera, Golder
Ben Hodges, Georgia Power
Jimmy Jones, Golder Associates Inc.
Kristen Jurinko
Julie Lehrman, Golder Associates Inc.
Ms. Lauren Petty, Southern Company
Carolyn Powrozek, Golder
Dawn Prell, Golder Associates Inc.
Tim Richards, Golder Associates - Atlanta
Lacy Smith, ERM
Brian Steele, Golder
Caitlin Tillema, ERM
Christine Weaver, ERM

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

CERTIFICATIONS

Project: BRANCH AP-BCD
Pace Project No.: 92585977

Pace Analytical Services, LLC - Minneapolis MN

1700 Elm Street SE, Minneapolis, MN 55414
1800 Elm Street SE, Minneapolis, MN 55414--Satellite Air Lab
A2LA Certification #: 2926.01*
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009*
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014*
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8 Tribal Water Systems+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605*
Georgia Certification #: 959
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: AI-03086*
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064*
Maryland Certification #: 322
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137*
Minnesota Dept of Ag Approval: via MN 027-053-137
Minnesota Petrofund Registration #: 1240*
Mississippi Certification #: MN00064
Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081*
New Jersey Certification #: MN002
New York Certification #: 11647*
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification (1700) #: CL101
Ohio VAP Certification (1800) #: CL110*
Oklahoma Certification #: 9507*
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001*
Pennsylvania Certification #: 68-00563*
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192*
Utah Certification #: MN00064*
Vermont Certification #: VT-027053137
Virginia Certification #: 460163*
Washington Certification #: C486*
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification #: via A2LA 2926.01
USDA Permit #: P330-19-00208
*Please Note: Applicable air certifications are denoted with an asterisk (*).

Pace Analytical Services Ormond Beach

8 East Tower Circle, Ormond Beach, FL 32174
Alaska DEC- CS/UST/LUST
Alabama Certification #: 41320
Colorado Certification: FL NELAC Reciprocity
Connecticut Certification #: PH-0216
Delaware Certification: FL NELAC Reciprocity
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Kentucky Certification #: 90050
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maine Certification #: FL01264
Maryland Certification: #346
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236
Montana Certification #: Cert 0074
Nebraska Certification: NE-OS-28-14
New Hampshire Certification #: 2958
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
North Dakota Certification #: R-216
Ohio DEP 87780
Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

CERTIFICATIONS

Project: BRANCH AP-BCD
Pace Project No.: 92585977

Pace Analytical Services Ormond Beach
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

Pace Analytical Services Charlotte
South Carolina Laboratory ID: 99006
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Laboratory ID: 99006
South Carolina Certification #: 99006001
South Carolina Drinking Water Cert. #: 99006003
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Louisiana DoH Drinking Water #: LA029
Virginia/VELAP Certification #: 460221

Pace Analytical Services Asheville
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners
110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
North Carolina Certification #: 381
South Carolina Certification #: 98011001

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Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE SUMMARY

Project: BRANCH AP-BCD
Pace Project No.: 92585977

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92585977001	**BRGWC-25I**	Water	02/02/22 14:44	02/03/22 10:35
92585977002	**BRGWC-30I**	Water	02/02/22 12:30	02/03/22 10:35
92585977003	**BRGWC-32S**	Water	02/02/22 14:55	02/03/22 10:35
92585977004	**BRGWC-45**	Water	02/02/22 10:42	02/03/22 10:35
92585977005	**BRGWC-47**	Water	02/02/22 09:40	02/03/22 10:35
92585977006	**BRGWC-52I**	Water	02/02/22 13:34	02/03/22 10:35
92585977007	**DUP-2**	Water	02/02/22 00:00	02/03/22 10:35
92585977008	**BRGWC-50**	Water	02/03/22 11:48	02/04/22 16:06
92585977009	**BRGWC-27I**	Water	02/04/22 08:50	02/04/22 16:06
92585977010	**BRGWC-29I**	Water	02/03/22 17:00	02/04/22 16:06
92585977011	**DUP-3**	Water	02/03/22 00:00	02/04/22 16:06

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SAMPLE ANALYTE COUNT

Project: BRANCH AP-BCD
Pace Project No.: 92585977

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92585977001	**BRGWC-25I**	EPA 6010D	KH	6	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
92585977002	**BRGWC-30I**	EPA 6010D	KH	6	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
92585977003	**BRGWC-32S**	EPA 6010D	KH	6	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
92585977004	**BRGWC-45**	EPA 6010D	KH	6	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
92585977005	**BRGWC-47**	EPA 6010D	KH	6	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
92585977006	**BRGWC-52I**	EPA 6010D	KH	6	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
92585977007	**DUP-2**	EPA 6010D	KH	1	PASI-GA

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SAMPLE ANALYTE COUNT

Project: BRANCH AP-BCD
Pace Project No.: 92585977

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
92585977008	**BRGWC-50**	EPA 6010D	KH	7	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
		SM 3500-Fe D#4	DMN	1	PASI-A
		SM 3500-Fe B-2011	DMN	1	PASI-A
		SM 4500-S2D-2011	JP1	1	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 353.2 Rev 2.0 1993	KDF1	1	PASI-A
		SM 5310B	AGS	1	PASI-O
92585977009	**BRGWC-27I**	EPA 6010D	KH	6	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92585977010	**BRGWC-29I**	EPA 6010D	KH	6	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92585977011	**DUP-3**	EPA 6010D	KH	6	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A

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REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: BRANCH AP-BCD
Pace Project No.: 92585977

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92585977001	**BRGWC-25I**					
	Performed by	CUSTOMER			02/03/22 12:57	
	pH	6.23	Std. Units		02/03/22 12:57	
EPA 6010D	Iron	0.30	mg/L	0.040	02/15/22 18:41	
EPA 6010D	Manganese	1.4	mg/L	0.040	02/15/22 18:41	
EPA 6010D	Potassium	4.0	mg/L	0.20	02/15/22 18:41	
EPA 6010D	Sodium	15.1	mg/L	1.0	02/15/22 18:41	
EPA 6010D	Calcium	44.3	mg/L	1.0	02/15/22 18:41	
EPA 6010D	Magnesium	16.4	mg/L	0.050	02/15/22 18:41	
EPA 6020B	Barium	0.023	mg/L	0.0050	02/15/22 19:11	
EPA 6020B	Boron	1.1	mg/L	0.040	02/15/22 19:11	
EPA 6020B	Cobalt	0.0027J	mg/L	0.0050	02/15/22 19:11	
EPA 6020B	Molybdenum	0.0011J	mg/L	0.010	02/15/22 19:11	
SM 2540C-2015	Total Dissolved Solids	283	mg/L	10.0	02/07/22 17:22	
SM 2320B	Alkalinity, Total as CaCO3	71.7	mg/L	5.0	02/10/22 15:25	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	71.7	mg/L	5.0	02/10/22 15:25	
EPA 300.0 Rev 2.1 1993	Chloride	4.2	mg/L	1.0	02/08/22 02:24	
EPA 300.0 Rev 2.1 1993	Fluoride	0.15	mg/L	0.10	02/08/22 02:24	
EPA 300.0 Rev 2.1 1993	Sulfate	117	mg/L	3.0	02/08/22 14:32	
92585977002	**BRGWC-30I**					
	Performed by	CUSTOMER			02/03/22 12:57	
	pH	6.34	Std. Units		02/03/22 12:57	
EPA 6010D	Iron	1.1	mg/L	0.040	02/15/22 18:46	
EPA 6010D	Manganese	0.80	mg/L	0.040	02/15/22 18:46	
EPA 6010D	Potassium	5.5	mg/L	0.20	02/15/22 18:46	
EPA 6010D	Sodium	27.5	mg/L	1.0	02/15/22 18:46	M1
EPA 6010D	Calcium	232	mg/L	1.0	02/15/22 18:46	M1
EPA 6010D	Magnesium	46.7	mg/L	0.050	02/15/22 18:46	M1
EPA 6020B	Antimony	0.0013J	mg/L	0.0030	02/15/22 19:34	
EPA 6020B	Barium	0.031	mg/L	0.0050	02/15/22 19:34	
EPA 6020B	Boron	1.9	mg/L	0.040	02/15/22 19:34	
EPA 6020B	Cadmium	0.00014J	mg/L	0.00050	02/15/22 19:34	
EPA 6020B	Cobalt	0.0012J	mg/L	0.0050	02/15/22 19:34	
EPA 6020B	Lithium	0.021J	mg/L	0.030	02/15/22 19:34	
EPA 6020B	Molybdenum	0.0012J	mg/L	0.010	02/15/22 19:34	
SM 2540C-2015	Total Dissolved Solids	1110	mg/L	20.0	02/07/22 17:23	
SM 2320B	Alkalinity, Total as CaCO3	118	mg/L	5.0	02/10/22 15:29	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	118	mg/L	5.0	02/10/22 15:29	
EPA 300.0 Rev 2.1 1993	Chloride	4.0	mg/L	1.0	02/08/22 02:38	
EPA 300.0 Rev 2.1 1993	Fluoride	0.10	mg/L	0.10	02/08/22 02:38	
EPA 300.0 Rev 2.1 1993	Sulfate	580	mg/L	14.0	02/08/22 14:46	
92585977003	**BRGWC-32S**					
	Performed by	CUSTOMER			02/03/22 12:57	
	pH	5.99	Std. Units		02/03/22 12:57	
EPA 6010D	Iron	0.082	mg/L	0.040	02/15/22 19:05	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: BRANCH AP-BCD
Pace Project No.: 92585977

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92585977003	**BRGWC-32S**					
EPA 6010D	Potassium	1.9	mg/L	0.20	02/15/22 19:05	
EPA 6010D	Sodium	24.6	mg/L	1.0	02/15/22 19:05	
EPA 6010D	Calcium	44.2	mg/L	1.0	02/15/22 19:05	
EPA 6010D	Magnesium	28.6	mg/L	0.050	02/15/22 19:05	
EPA 6020B	Barium	0.023	mg/L	0.0050	02/15/22 19:40	
EPA 6020B	Boron	1.0	mg/L	0.040	02/15/22 19:40	
EPA 6020B	Chromium	0.0021J	mg/L	0.0050	02/15/22 19:40	
EPA 6020B	Lithium	0.0035J	mg/L	0.030	02/15/22 19:40	
EPA 6020B	Selenium	0.21	mg/L	0.0050	02/15/22 19:40	
SM 2540C-2015	Total Dissolved Solids	443	mg/L	10.0	02/07/22 17:23	
SM 2320B	Alkalinity, Total as CaCO3	31.5	mg/L	5.0	02/10/22 15:34	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	31.5	mg/L	5.0	02/10/22 15:34	
EPA 300.0 Rev 2.1 1993	Chloride	3.8	mg/L	1.0	02/08/22 02:52	
EPA 300.0 Rev 2.1 1993	Sulfate	210	mg/L	5.0	02/08/22 15:00	
92585977004	**BRGWC-45**					
	Performed by	CUSTOMER			02/03/22 12:57	
	pH	5.92	Std. Units		02/03/22 12:57	
EPA 6010D	Iron	0.44	mg/L	0.040	02/15/22 19:10	
EPA 6010D	Manganese	0.27	mg/L	0.040	02/15/22 19:10	
EPA 6010D	Potassium	3.4	mg/L	0.20	02/15/22 19:10	
EPA 6010D	Sodium	14.6	mg/L	1.0	02/15/22 19:10	
EPA 6010D	Calcium	33.8	mg/L	1.0	02/15/22 19:10	
EPA 6010D	Magnesium	16.2	mg/L	0.050	02/15/22 19:10	
EPA 6020B	Barium	0.063	mg/L	0.0050	02/15/22 19:46	
EPA 6020B	Boron	0.034J	mg/L	0.040	02/15/22 19:46	
EPA 6020B	Cobalt	0.0054	mg/L	0.0050	02/15/22 19:46	
EPA 6020B	Lithium	0.0022J	mg/L	0.030	02/15/22 19:46	
SM 2540C-2015	Total Dissolved Solids	276	mg/L	10.0	02/07/22 17:23	
SM 2320B	Alkalinity, Total as CaCO3	39.6	mg/L	5.0	02/10/22 15:37	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	39.6	mg/L	5.0	02/10/22 15:37	
EPA 300.0 Rev 2.1 1993	Chloride	23.4	mg/L	1.0	02/08/22 03:06	
EPA 300.0 Rev 2.1 1993	Sulfate	90.1	mg/L	2.0	02/08/22 15:15	
92585977005	**BRGWC-47**					
	Performed by	CUSTOMER			02/03/22 12:57	
	pH	5.75	Std. Units		02/03/22 12:57	
EPA 6010D	Iron	0.17	mg/L	0.040	02/15/22 19:15	BC
EPA 6010D	Manganese	0.010J	mg/L	0.040	02/15/22 19:15	
EPA 6010D	Potassium	11.5	mg/L	0.20	02/15/22 19:15	
EPA 6010D	Sodium	40.5	mg/L	1.0	02/15/22 19:15	
EPA 6010D	Magnesium	114	mg/L	0.050	02/15/22 19:15	
EPA 6010D	Calcium	320	mg/L	10.0	02/16/22 15:32	
EPA 6020B	Arsenic	0.0056	mg/L	0.0050	02/15/22 19:52	
EPA 6020B	Barium	0.028	mg/L	0.0050	02/15/22 19:52	
EPA 6020B	Boron	0.48	mg/L	0.040	02/15/22 19:52	
EPA 6020B	Cadmium	0.00015J	mg/L	0.00050	02/15/22 19:52	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: BRANCH AP-BCD
Pace Project No.: 92585977

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92585977005	**BRGWC-47**					
EPA 6020B	Lithium	0.040	mg/L	0.030	02/15/22 19:52	
SM 2540C-2015	Total Dissolved Solids	1850	mg/L	100	02/07/22 17:23	
SM 2320B	Alkalinity, Total as CaCO3	26.1	mg/L	5.0	02/10/22 15:41	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	26.1	mg/L	5.0	02/10/22 15:41	
EPA 300.0 Rev 2.1 1993	Chloride	4.2	mg/L	1.0	02/08/22 03:20	
EPA 300.0 Rev 2.1 1993	Sulfate	1170	mg/L	26.0	02/08/22 15:56	M1
92585977006	**BRGWC-52I**					
	Performed by	CUSTOMER			02/03/22 12:57	
	pH	6.35	Std. Units		02/03/22 12:57	
EPA 6010D	Iron	5.8	mg/L	0.040	02/15/22 19:29	
EPA 6010D	Manganese	0.75	mg/L	0.040	02/15/22 19:29	
EPA 6010D	Potassium	4.9	mg/L	0.20	02/15/22 19:29	
EPA 6010D	Sodium	18.4	mg/L	1.0	02/15/22 19:29	
EPA 6010D	Calcium	40.1	mg/L	1.0	02/15/22 19:29	
EPA 6010D	Magnesium	18.1	mg/L	0.050	02/15/22 19:29	
EPA 6020B	Barium	0.013	mg/L	0.0050	02/15/22 20:10	
EPA 6020B	Boron	1.5	mg/L	0.040	02/15/22 20:10	
EPA 6020B	Lithium	0.0041J	mg/L	0.030	02/15/22 20:10	
SM 2540C-2015	Total Dissolved Solids	160	mg/L	10.0	02/07/22 17:23	
SM 2320B	Alkalinity, Total as CaCO3	65.1	mg/L	5.0	02/10/22 15:44	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	65.1	mg/L	5.0	02/10/22 15:44	
EPA 300.0 Rev 2.1 1993	Chloride	6.1	mg/L	1.0	02/08/22 04:01	
EPA 300.0 Rev 2.1 1993	Fluoride	0.098J	mg/L	0.10	02/08/22 04:01	
EPA 300.0 Rev 2.1 1993	Sulfate	126	mg/L	3.0	02/08/22 16:38	
92585977007	**DUP-2**					
EPA 6010D	Calcium	224	mg/L	1.0	02/15/22 19:34	
EPA 6020B	Barium	0.032	mg/L	0.0050	02/15/22 20:16	
EPA 6020B	Boron	1.9	mg/L	0.040	02/15/22 20:16	
EPA 6020B	Cobalt	0.0013J	mg/L	0.0050	02/15/22 20:16	
EPA 6020B	Lithium	0.020J	mg/L	0.030	02/15/22 20:16	
EPA 6020B	Molybdenum	0.0010J	mg/L	0.010	02/15/22 20:16	
SM 2540C-2015	Total Dissolved Solids	1140	mg/L	20.0	02/07/22 17:39	
EPA 300.0 Rev 2.1 1993	Chloride	4.1	mg/L	1.0	02/08/22 04:43	
EPA 300.0 Rev 2.1 1993	Fluoride	0.11	mg/L	0.10	02/08/22 04:43	
EPA 300.0 Rev 2.1 1993	Sulfate	579	mg/L	14.0	02/08/22 16:51	
92585977008	**BRGWC-50**					
	Performed by	CUSTOMER			02/07/22 09:56	
	pH	5.20	Std. Units		02/07/22 09:56	
EPA 6010D	Manganese	83.5	mg/L	0.40	02/16/22 15:37	
EPA 6010D	Calcium	220	mg/L	10.0	02/16/22 15:37	
EPA 6010D	Magnesium	158	mg/L	0.50	02/16/22 15:37	
EPA 6010D	Hardness, Total(SM 2340B)	1200	mg/L	27.0	02/16/22 15:37	
EPA 6010D	Iron	0.15	mg/L	0.040	02/15/22 19:43	
EPA 6010D	Potassium	9.8	mg/L	0.20	02/15/22 19:43	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: BRANCH AP-BCD
Pace Project No.: 92585977

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92585977008	**BRGWC-50**					
EPA 6010D	Sodium	46.9	mg/L	1.0	02/15/22 19:43	
EPA 6020B	Barium	0.016	mg/L	0.0050	02/15/22 20:58	
EPA 6020B	Beryllium	0.0071	mg/L	0.00050	02/15/22 20:58	
EPA 6020B	Boron	0.31	mg/L	0.040	02/15/22 20:58	
EPA 6020B	Cadmium	0.0085	mg/L	0.00050	02/15/22 20:58	
EPA 6020B	Cobalt	1.5	mg/L	0.025	02/17/22 15:12	
EPA 6020B	Lithium	0.038	mg/L	0.030	02/15/22 20:58	
SM 2540C-2015	Total Dissolved Solids	1850	mg/L	100	02/09/22 10:13	
SM 2320B	Alkalinity, Total as CaCO3	11.6	mg/L	5.0	02/10/22 22:06	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	11.6	mg/L	5.0	02/10/22 22:06	
SM 3500-Fe B-2011	Iron, Ferrous	0.16J	mg/L	0.50	02/09/22 11:34	H3,N2
EPA 300.0 Rev 2.1 1993	Chloride	17.4	mg/L	1.0	02/10/22 22:50	
EPA 300.0 Rev 2.1 1993	Fluoride	0.42	mg/L	0.10	02/10/22 22:50	
EPA 300.0 Rev 2.1 1993	Sulfate	1270	mg/L	25.0	02/11/22 05:19	
SM 5310B	Dissolved Organic Carbon	0.53 I	mg/L	1.0	02/10/22 20:19	
92585977009	**BRGWC-27I**					
	Performed by	CUSTOMER			02/07/22 09:56	
	pH	5.97	Std. Units		02/07/22 09:56	
EPA 6010D	Iron	0.095	mg/L	0.040	02/15/22 19:48	
EPA 6010D	Manganese	0.88	mg/L	0.040	02/15/22 19:48	
EPA 6010D	Potassium	4.9	mg/L	0.20	02/15/22 19:48	
EPA 6010D	Sodium	14.1	mg/L	1.0	02/15/22 19:48	
EPA 6010D	Calcium	61.7	mg/L	1.0	02/15/22 19:48	
EPA 6010D	Magnesium	5.5	mg/L	0.050	02/15/22 19:48	
EPA 6020B	Barium	0.015	mg/L	0.0050	02/15/22 21:04	
EPA 6020B	Beryllium	0.000054J	mg/L	0.00050	02/15/22 21:04	
EPA 6020B	Boron	1.0	mg/L	0.040	02/15/22 21:04	
EPA 6020B	Cobalt	0.0076	mg/L	0.0050	02/15/22 21:04	
EPA 6020B	Lithium	0.0010J	mg/L	0.030	02/15/22 21:04	
SM 2540C-2015	Total Dissolved Solids	301	mg/L	10.0	02/09/22 18:02	
SM 2320B	Alkalinity, Total as CaCO3	31.3	mg/L	5.0	02/10/22 21:36	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	31.3	mg/L	5.0	02/10/22 21:36	
EPA 300.0 Rev 2.1 1993	Chloride	4.6	mg/L	1.0	02/10/22 23:05	
EPA 300.0 Rev 2.1 1993	Fluoride	0.14	mg/L	0.10	02/10/22 23:05	
EPA 300.0 Rev 2.1 1993	Sulfate	172	mg/L	4.0	02/11/22 05:34	
92585977010	**BRGWC-29I**					
	Performed by	CUSTOMER			02/07/22 09:57	
	pH	4.23	Std. Units		02/07/22 09:57	
EPA 6010D	Iron	29.2	mg/L	0.040	02/15/22 19:53	
EPA 6010D	Manganese	1.2	mg/L	0.040	02/15/22 19:53	
EPA 6010D	Potassium	9.0	mg/L	0.20	02/15/22 19:53	
EPA 6010D	Sodium	15.0	mg/L	1.0	02/15/22 19:53	
EPA 6010D	Calcium	58.7	mg/L	1.0	02/15/22 19:53	
EPA 6010D	Magnesium	7.3	mg/L	0.050	02/15/22 19:53	
EPA 6020B	Barium	0.016	mg/L	0.0050	02/15/22 21:22	

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SUMMARY OF DETECTION

Project: BRANCH AP-BCD
Pace Project No.: 92585977

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92585977010	**BRGWC-29I**					
EPA 6020B	Beryllium	0.00083	mg/L	0.00050	02/15/22 21:22	
EPA 6020B	Boron	0.93	mg/L	0.040	02/15/22 21:22	
EPA 6020B	Cobalt	0.0077	mg/L	0.0050	02/15/22 21:22	
EPA 6020B	Lithium	0.0026J	mg/L	0.030	02/15/22 21:22	
SM 2540C-2015	Total Dissolved Solids	419	mg/L	10.0	02/09/22 10:13	
EPA 300.0 Rev 2.1 1993	Chloride	6.1	mg/L	1.0	02/10/22 23:20	
EPA 300.0 Rev 2.1 1993	Fluoride	0.11	mg/L	0.10	02/10/22 23:20	
EPA 300.0 Rev 2.1 1993	Sulfate	274	mg/L	6.0	02/11/22 05:48	
92585977011	**DUP-3**					
EPA 6010D	Iron	29.8	mg/L	0.040	02/15/22 19:58	
EPA 6010D	Manganese	1.2	mg/L	0.040	02/15/22 19:58	
EPA 6010D	Potassium	9.2	mg/L	0.20	02/15/22 19:58	
EPA 6010D	Sodium	15.2	mg/L	1.0	02/15/22 19:58	
EPA 6010D	Calcium	59.3	mg/L	1.0	02/15/22 19:58	
EPA 6010D	Magnesium	7.4	mg/L	0.050	02/15/22 19:58	
EPA 6020B	Barium	0.015	mg/L	0.0050	02/15/22 21:28	
EPA 6020B	Beryllium	0.00081	mg/L	0.00050	02/15/22 21:28	
EPA 6020B	Boron	0.96	mg/L	0.040	02/15/22 21:28	
EPA 6020B	Cobalt	0.0072	mg/L	0.0050	02/15/22 21:28	
EPA 6020B	Lithium	0.0028J	mg/L	0.030	02/15/22 21:28	
SM 2540C-2015	Total Dissolved Solids	435	mg/L	10.0	02/09/22 10:13	
EPA 300.0 Rev 2.1 1993	Chloride	6.3	mg/L	1.0	02/10/22 23:35	
EPA 300.0 Rev 2.1 1993	Fluoride	0.12	mg/L	0.10	02/10/22 23:35	
EPA 300.0 Rev 2.1 1993	Sulfate	285	mg/L	6.0	02/11/22 06:03	

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD
Pace Project No.: 92585977

Sample: BRGWC-25I **Lab ID: 92585977001** Collected: 02/02/22 14:44 Received: 02/03/22 10:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		02/03/22 12:57		
pH	**6.23**	Std. Units			1		02/03/22 12:57		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.30**	mg/L	0.040	0.025	1	02/15/22 11:54	02/15/22 18:41	7439-89-6	
Manganese	**1.4**	mg/L	0.040	0.0043	1	02/15/22 11:54	02/15/22 18:41	7439-96-5	
Potassium	**4.0**	mg/L	0.20	0.15	1	02/15/22 11:54	02/15/22 18:41	7440-09-7	
Sodium	**15.1**	mg/L	1.0	0.58	1	02/15/22 11:54	02/15/22 18:41	7440-23-5	
Calcium	**44.3**	mg/L	1.0	0.12	1	02/15/22 11:54	02/15/22 18:41	7440-70-2	
Magnesium	**16.4**	mg/L	0.050	0.012	1	02/15/22 11:54	02/15/22 18:41	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	02/15/22 10:27	02/15/22 19:11	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/15/22 10:27	02/15/22 19:11	7440-38-2	
Barium	**0.023**	mg/L	0.0050	0.00067	1	02/15/22 10:27	02/15/22 19:11	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/15/22 10:27	02/15/22 19:11	7440-41-7	
Boron	**1.1**	mg/L	0.040	0.0086	1	02/15/22 10:27	02/15/22 19:11	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/15/22 10:27	02/15/22 19:11	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/15/22 10:27	02/15/22 19:11	7440-47-3	
Cobalt	**0.0027J**	mg/L	0.0050	0.00039	1	02/15/22 10:27	02/15/22 19:11	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/15/22 10:27	02/15/22 19:11	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/15/22 10:27	02/15/22 19:11	7439-93-2	
Molybdenum	**0.0011J**	mg/L	0.010	0.00074	1	02/15/22 10:27	02/15/22 19:11	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/15/22 10:27	02/15/22 19:11	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/15/22 10:27	02/15/22 19:11	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/10/22 08:00	02/10/22 11:03	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**283**	mg/L	10.0	10.0	1		02/07/22 17:22		
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Minneapolis								
Alkalinity, Total as CaCO3	**71.7**	mg/L	5.0	1.8	1		02/10/22 15:25		
Alkalinity,Bicarbonate (CaCO3)	**71.7**	mg/L	5.0	1.8	1		02/10/22 15:25		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		02/10/22 15:25		

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD
Pace Project No.: 92585977

Sample: BRGWC-25I **Lab ID: 92585977001** Collected: 02/02/22 14:44 Received: 02/03/22 10:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**4.2**	mg/L	1.0	0.60	1		02/08/22 02:24	16887-00-6	
Fluoride	**0.15**	mg/L	0.10	0.050	1		02/08/22 02:24	16984-48-8	
Sulfate	**117**	mg/L	3.0	1.5	3		02/08/22 14:32	14808-79-8	

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD
Pace Project No.: 92585977

Sample: BRGWC-30I **Lab ID: 92585977002** Collected: 02/02/22 12:30 Received: 02/03/22 10:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		02/03/22 12:57		
pH	**6.34**	Std. Units			1		02/03/22 12:57		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**1.1**	mg/L	0.040	0.025	1	02/15/22 11:54	02/15/22 18:46	7439-89-6	
Manganese	**0.80**	mg/L	0.040	0.0043	1	02/15/22 11:54	02/15/22 18:46	7439-96-5	
Potassium	**5.5**	mg/L	0.20	0.15	1	02/15/22 11:54	02/15/22 18:46	7440-09-7	
Sodium	**27.5**	mg/L	1.0	0.58	1	02/15/22 11:54	02/15/22 18:46	7440-23-5	M1
Calcium	**232**	mg/L	1.0	0.12	1	02/15/22 11:54	02/15/22 18:46	7440-70-2	M1
Magnesium	**46.7**	mg/L	0.050	0.012	1	02/15/22 11:54	02/15/22 18:46	7439-95-4	M1
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.0013J**	mg/L	0.0030	0.00078	1	02/15/22 10:27	02/15/22 19:34	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/15/22 10:27	02/15/22 19:34	7440-38-2	
Barium	**0.031**	mg/L	0.0050	0.00067	1	02/15/22 10:27	02/15/22 19:34	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/15/22 10:27	02/15/22 19:34	7440-41-7	
Boron	**1.9**	mg/L	0.040	0.0086	1	02/15/22 10:27	02/15/22 19:34	7440-42-8	
Cadmium	**0.00014J**	mg/L	0.00050	0.00011	1	02/15/22 10:27	02/15/22 19:34	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/15/22 10:27	02/15/22 19:34	7440-47-3	
Cobalt	**0.0012J**	mg/L	0.0050	0.00039	1	02/15/22 10:27	02/15/22 19:34	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/15/22 10:27	02/15/22 19:34	7439-92-1	
Lithium	**0.021J**	mg/L	0.030	0.00073	1	02/15/22 10:27	02/15/22 19:34	7439-93-2	
Molybdenum	**0.0012J**	mg/L	0.010	0.00074	1	02/15/22 10:27	02/15/22 19:34	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/15/22 10:27	02/15/22 19:34	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/15/22 10:27	02/15/22 19:34	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/10/22 08:00	02/10/22 11:13	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**1110**	mg/L	20.0	20.0	1		02/07/22 17:23		
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Minneapolis								
Alkalinity, Total as CaCO3	**118**	mg/L	5.0	1.8	1		02/10/22 15:29		
Alkalinity,Bicarbonate (CaCO3)	**118**	mg/L	5.0	1.8	1		02/10/22 15:29		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		02/10/22 15:29		

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(770)734-4200

ANALYTICAL RESULTS

Project: BRANCH AP-BCD
Pace Project No.: 92585977

Sample: BRGWC-30I **Lab ID: 92585977002** Collected: 02/02/22 12:30 Received: 02/03/22 10:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**4.0**	mg/L	1.0	0.60	1		02/08/22 02:38	16887-00-6	
Fluoride	**0.10**	mg/L	0.10	0.050	1		02/08/22 02:38	16984-48-8	
Sulfate	**580**	mg/L	14.0	7.0	14		02/08/22 14:46	14808-79-8	

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD
Pace Project No.: 92585977

Sample: BRGWC-32S **Lab ID: 92585977003** Collected: 02/02/22 14:55 Received: 02/03/22 10:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		02/03/22 12:57		
pH	**5.99**	Std. Units			1		02/03/22 12:57		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.082**	mg/L	0.040	0.025	1	02/15/22 11:54	02/15/22 19:05	7439-89-6	
Manganese	ND	mg/L	0.040	0.0043	1	02/15/22 11:54	02/15/22 19:05	7439-96-5	
Potassium	**1.9**	mg/L	0.20	0.15	1	02/15/22 11:54	02/15/22 19:05	7440-09-7	
Sodium	**24.6**	mg/L	1.0	0.58	1	02/15/22 11:54	02/15/22 19:05	7440-23-5	
Calcium	**44.2**	mg/L	1.0	0.12	1	02/15/22 11:54	02/15/22 19:05	7440-70-2	
Magnesium	**28.6**	mg/L	0.050	0.012	1	02/15/22 11:54	02/15/22 19:05	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	02/15/22 10:27	02/15/22 19:40	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/15/22 10:27	02/15/22 19:40	7440-38-2	
Barium	**0.023**	mg/L	0.0050	0.00067	1	02/15/22 10:27	02/15/22 19:40	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/15/22 10:27	02/15/22 19:40	7440-41-7	
Boron	**1.0**	mg/L	0.040	0.0086	1	02/15/22 10:27	02/15/22 19:40	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/15/22 10:27	02/15/22 19:40	7440-43-9	
Chromium	**0.0021J**	mg/L	0.0050	0.0011	1	02/15/22 10:27	02/15/22 19:40	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/15/22 10:27	02/15/22 19:40	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/15/22 10:27	02/15/22 19:40	7439-92-1	
Lithium	**0.0035J**	mg/L	0.030	0.00073	1	02/15/22 10:27	02/15/22 19:40	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/15/22 10:27	02/15/22 19:40	7439-98-7	
Selenium	**0.21**	mg/L	0.0050	0.0014	1	02/15/22 10:27	02/15/22 19:40	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/15/22 10:27	02/15/22 19:40	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/10/22 08:00	02/10/22 11:16	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**443**	mg/L	10.0	10.0	1		02/07/22 17:23		
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Minneapolis								
Alkalinity, Total as CaCO3	**31.5**	mg/L	5.0	1.8	1		02/10/22 15:34		
Alkalinity,Bicarbonate (CaCO3)	**31.5**	mg/L	5.0	1.8	1		02/10/22 15:34		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		02/10/22 15:34		

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD
Pace Project No.: 92585977

Sample: BRGWC-32S **Lab ID: 92585977003** Collected: 02/02/22 14:55 Received: 02/03/22 10:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**3.8**	mg/L	1.0	0.60	1		02/08/22 02:52	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/08/22 02:52	16984-48-8	
Sulfate	**210**	mg/L	5.0	2.5	5		02/08/22 15:00	14808-79-8	

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD
Pace Project No.: 92585977

Sample: BRGWC-45 **Lab ID: 92585977004** Collected: 02/02/22 10:42 Received: 02/03/22 10:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		02/03/22 12:57		
pH	**5.92**	Std. Units			1		02/03/22 12:57		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.44**	mg/L	0.040	0.025	1	02/15/22 11:54	02/15/22 19:10	7439-89-6	
Manganese	**0.27**	mg/L	0.040	0.0043	1	02/15/22 11:54	02/15/22 19:10	7439-96-5	
Potassium	**3.4**	mg/L	0.20	0.15	1	02/15/22 11:54	02/15/22 19:10	7440-09-7	
Sodium	**14.6**	mg/L	1.0	0.58	1	02/15/22 11:54	02/15/22 19:10	7440-23-5	
Calcium	**33.8**	mg/L	1.0	0.12	1	02/15/22 11:54	02/15/22 19:10	7440-70-2	
Magnesium	**16.2**	mg/L	0.050	0.012	1	02/15/22 11:54	02/15/22 19:10	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	02/15/22 10:27	02/15/22 19:46	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/15/22 10:27	02/15/22 19:46	7440-38-2	
Barium	**0.063**	mg/L	0.0050	0.00067	1	02/15/22 10:27	02/15/22 19:46	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/15/22 10:27	02/15/22 19:46	7440-41-7	
Boron	**0.034J**	mg/L	0.040	0.0086	1	02/15/22 10:27	02/15/22 19:46	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/15/22 10:27	02/15/22 19:46	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/15/22 10:27	02/15/22 19:46	7440-47-3	
Cobalt	**0.0054**	mg/L	0.0050	0.00039	1	02/15/22 10:27	02/15/22 19:46	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/15/22 10:27	02/15/22 19:46	7439-92-1	
Lithium	**0.0022J**	mg/L	0.030	0.00073	1	02/15/22 10:27	02/15/22 19:46	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/15/22 10:27	02/15/22 19:46	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/15/22 10:27	02/15/22 19:46	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/15/22 10:27	02/15/22 19:46	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/10/22 08:00	02/10/22 11:19	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**276**	mg/L	10.0	10.0	1		02/07/22 17:23		
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Minneapolis								
Alkalinity, Total as CaCO3	**39.6**	mg/L	5.0	1.8	1		02/10/22 15:37		
Alkalinity,Bicarbonate (CaCO3)	**39.6**	mg/L	5.0	1.8	1		02/10/22 15:37		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		02/10/22 15:37		

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD
Pace Project No.: 92585977

Sample: BRGWC-45 **Lab ID: 92585977004** Collected: 02/02/22 10:42 Received: 02/03/22 10:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**23.4**	mg/L	1.0	0.60	1		02/08/22 03:06	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/08/22 03:06	16984-48-8	
Sulfate	**90.1**	mg/L	2.0	1.0	2		02/08/22 15:15	14808-79-8	

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD
Pace Project No.: 92585977

Sample: BRGWC-47 **Lab ID: 92585977005** Collected: 02/02/22 09:40 Received: 02/03/22 10:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		02/03/22 12:57		
pH	**5.75**	Std. Units			1		02/03/22 12:57		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.17**	mg/L	0.040	0.025	1	02/15/22 11:54	02/15/22 19:15	7439-89-6	BC
Manganese	**0.010J**	mg/L	0.040	0.0043	1	02/15/22 11:54	02/15/22 19:15	7439-96-5	
Potassium	**11.5**	mg/L	0.20	0.15	1	02/15/22 11:54	02/15/22 19:15	7440-09-7	
Sodium	**40.5**	mg/L	1.0	0.58	1	02/15/22 11:54	02/15/22 19:15	7440-23-5	
Magnesium	**114**	mg/L	0.050	0.012	1	02/15/22 11:54	02/15/22 19:15	7439-95-4	
Calcium	**320**	mg/L	10.0	1.2	10	02/15/22 11:54	02/16/22 15:32	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	02/15/22 10:27	02/15/22 19:52	7440-36-0	
Arsenic	**0.0056**	mg/L	0.0050	0.0011	1	02/15/22 10:27	02/15/22 19:52	7440-38-2	
Barium	**0.028**	mg/L	0.0050	0.00067	1	02/15/22 10:27	02/15/22 19:52	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/15/22 10:27	02/15/22 19:52	7440-41-7	
Boron	**0.48**	mg/L	0.040	0.0086	1	02/15/22 10:27	02/15/22 19:52	7440-42-8	
Cadmium	**0.00015J**	mg/L	0.00050	0.00011	1	02/15/22 10:27	02/15/22 19:52	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/15/22 10:27	02/15/22 19:52	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/15/22 10:27	02/15/22 19:52	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/15/22 10:27	02/15/22 19:52	7439-92-1	
Lithium	**0.040**	mg/L	0.030	0.00073	1	02/15/22 10:27	02/15/22 19:52	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/15/22 10:27	02/15/22 19:52	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/15/22 10:27	02/15/22 19:52	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/15/22 10:27	02/15/22 19:52	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/10/22 08:00	02/10/22 11:26	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**1850**	mg/L	100	100	1		02/07/22 17:23		
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Minneapolis								
Alkalinity, Total as CaCO3	**26.1**	mg/L	5.0	1.8	1		02/10/22 15:41		
Alkalinity,Bicarbonate (CaCO3)	**26.1**	mg/L	5.0	1.8	1		02/10/22 15:41		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		02/10/22 15:41		

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD
Pace Project No.: 92585977

Sample: BRGWC-47 **Lab ID: 92585977005** Collected: 02/02/22 09:40 Received: 02/03/22 10:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**4.2**	mg/L	1.0	0.60	1		02/08/22 03:20	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/08/22 03:20	16984-48-8	
Sulfate	**1170**	mg/L	26.0	13.0	26		02/08/22 15:56	14808-79-8	M1

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD
Pace Project No.: 92585977

Sample: BRGWC-52I **Lab ID: 92585977006** Collected: 02/02/22 13:34 Received: 02/03/22 10:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		02/03/22 12:57		
pH	**6.35**	Std. Units			1		02/03/22 12:57		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**5.8**	mg/L	0.040	0.025	1	02/15/22 11:54	02/15/22 19:29	7439-89-6	
Manganese	**0.75**	mg/L	0.040	0.0043	1	02/15/22 11:54	02/15/22 19:29	7439-96-5	
Potassium	**4.9**	mg/L	0.20	0.15	1	02/15/22 11:54	02/15/22 19:29	7440-09-7	
Sodium	**18.4**	mg/L	1.0	0.58	1	02/15/22 11:54	02/15/22 19:29	7440-23-5	
Calcium	**40.1**	mg/L	1.0	0.12	1	02/15/22 11:54	02/15/22 19:29	7440-70-2	
Magnesium	**18.1**	mg/L	0.050	0.012	1	02/15/22 11:54	02/15/22 19:29	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	02/15/22 10:27	02/15/22 20:10	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/15/22 10:27	02/15/22 20:10	7440-38-2	
Barium	**0.013**	mg/L	0.0050	0.00067	1	02/15/22 10:27	02/15/22 20:10	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/15/22 10:27	02/15/22 20:10	7440-41-7	
Boron	**1.5**	mg/L	0.040	0.0086	1	02/15/22 10:27	02/15/22 20:10	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/15/22 10:27	02/15/22 20:10	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/15/22 10:27	02/15/22 20:10	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/15/22 10:27	02/15/22 20:10	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/15/22 10:27	02/15/22 20:10	7439-92-1	
Lithium	**0.0041J**	mg/L	0.030	0.00073	1	02/15/22 10:27	02/15/22 20:10	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/15/22 10:27	02/15/22 20:10	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/15/22 10:27	02/15/22 20:10	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/15/22 10:27	02/15/22 20:10	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/14/22 15:15	02/15/22 09:27	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**160**	mg/L	10.0	10.0	1		02/07/22 17:23		
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Minneapolis								
Alkalinity, Total as CaCO3	**65.1**	mg/L	5.0	1.8	1		02/10/22 15:44		
Alkalinity,Bicarbonate (CaCO3)	**65.1**	mg/L	5.0	1.8	1		02/10/22 15:44		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		02/10/22 15:44		

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD
Pace Project No.: 92585977

Sample: BRGWC-52I **Lab ID: 92585977006** Collected: 02/02/22 13:34 Received: 02/03/22 10:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**6.1**	mg/L	1.0	0.60	1		02/08/22 04:01	16887-00-6	
Fluoride	**0.098J**	mg/L	0.10	0.050	1		02/08/22 04:01	16984-48-8	
Sulfate	**126**	mg/L	3.0	1.5	3		02/08/22 16:38	14808-79-8	

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD
Pace Project No.: 92585977

Sample: DUP-2 **Lab ID: 92585977007** Collected: 02/02/22 00:00 Received: 02/03/22 10:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**224**	mg/L	1.0	0.12	1	02/15/22 11:54	02/15/22 19:34	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	02/15/22 10:27	02/15/22 20:16	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/15/22 10:27	02/15/22 20:16	7440-38-2	
Barium	**0.032**	mg/L	0.0050	0.00067	1	02/15/22 10:27	02/15/22 20:16	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/15/22 10:27	02/15/22 20:16	7440-41-7	
Boron	**1.9**	mg/L	0.040	0.0086	1	02/15/22 10:27	02/15/22 20:16	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/15/22 10:27	02/15/22 20:16	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/15/22 10:27	02/15/22 20:16	7440-47-3	
Cobalt	**0.0013J**	mg/L	0.0050	0.00039	1	02/15/22 10:27	02/15/22 20:16	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/15/22 10:27	02/15/22 20:16	7439-92-1	
Lithium	**0.020J**	mg/L	0.030	0.00073	1	02/15/22 10:27	02/15/22 20:16	7439-93-2	
Molybdenum	**0.0010J**	mg/L	0.010	0.00074	1	02/15/22 10:27	02/15/22 20:16	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/15/22 10:27	02/15/22 20:16	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/15/22 10:27	02/15/22 20:16	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/14/22 15:15	02/15/22 09:37	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**1140**	mg/L	20.0	20.0	1		02/07/22 17:39		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**4.1**	mg/L	1.0	0.60	1		02/08/22 04:43	16887-00-6	
Fluoride	**0.11**	mg/L	0.10	0.050	1		02/08/22 04:43	16984-48-8	
Sulfate	**579**	mg/L	14.0	7.0	14		02/08/22 16:51	14808-79-8	

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD
Pace Project No.: 92585977

Sample: BRGWC-50 **Lab ID: 92585977008** Collected: 02/03/22 11:48 Received: 02/04/22 16:06 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		02/07/22 09:56		
pH	**5.20**	Std. Units			1		02/07/22 09:56		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Manganese	**83.5**	mg/L	0.40	0.043	10	02/15/22 11:54	02/16/22 15:37	7439-96-5	
Calcium	**220**	mg/L	10.0	1.2	10	02/15/22 11:54	02/16/22 15:37	7440-70-2	
Magnesium	**158**	mg/L	0.50	0.12	10	02/15/22 11:54	02/16/22 15:37	7439-95-4	
Hardness, Total(SM 2340B)	**1200**	mg/L	27.0	3.5	10	02/15/22 11:54	02/16/22 15:37		
Iron	**0.15**	mg/L	0.040	0.025	1	02/15/22 11:54	02/15/22 19:43	7439-89-6	
Potassium	**9.8**	mg/L	0.20	0.15	1	02/15/22 11:54	02/15/22 19:43	7440-09-7	
Sodium	**46.9**	mg/L	1.0	0.58	1	02/15/22 11:54	02/15/22 19:43	7440-23-5	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	02/15/22 10:27	02/15/22 20:58	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/15/22 10:27	02/15/22 20:58	7440-38-2	
Barium	**0.016**	mg/L	0.0050	0.00067	1	02/15/22 10:27	02/15/22 20:58	7440-39-3	
Beryllium	**0.0071**	mg/L	0.00050	0.000054	1	02/15/22 10:27	02/15/22 20:58	7440-41-7	
Boron	**0.31**	mg/L	0.040	0.0086	1	02/15/22 10:27	02/15/22 20:58	7440-42-8	
Cadmium	**0.0085**	mg/L	0.00050	0.00011	1	02/15/22 10:27	02/15/22 20:58	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/15/22 10:27	02/15/22 20:58	7440-47-3	
Cobalt	**1.5**	mg/L	0.025	0.0020	5	02/15/22 10:27	02/17/22 15:12	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/15/22 10:27	02/16/22 20:27	7439-92-1	
Lithium	**0.038**	mg/L	0.030	0.00073	1	02/15/22 10:27	02/15/22 20:58	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/15/22 10:27	02/15/22 20:58	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/15/22 10:27	02/15/22 20:58	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/15/22 10:27	02/16/22 20:27	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/14/22 15:15	02/15/22 09:40	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**1850**	mg/L	100	100	1		02/09/22 10:13		
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Minneapolis								
Alkalinity, Total as CaCO3	**11.6**	mg/L	5.0	1.8	1		02/10/22 22:06		
Alkalinity,Bicarbonate (CaCO3)	**11.6**	mg/L	5.0	1.8	1		02/10/22 22:06		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		02/10/22 22:06		

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD
Pace Project No.: 92585977

Sample: BRGWC-50 **Lab ID: 92585977008** Collected: 02/03/22 11:48 Received: 02/04/22 16:06 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe D#4 Pace Analytical Services - Asheville								
Iron, Ferric	ND	mg/L	0.50	0.25	1		02/18/22 12:06	20074-52-6	N2
Iron, Ferrous	Analytical Method: SM 3500-Fe B-2011 Pace Analytical Services - Asheville								
Iron, Ferrous	**0.16J**	mg/L	0.50	0.040	1		02/09/22 11:34	15438-31-0	H3,N2
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.050	1		02/09/22 03:14	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**17.4**	mg/L	1.0	0.60	1		02/10/22 22:50	16887-00-6	
Fluoride	**0.42**	mg/L	0.10	0.050	1		02/10/22 22:50	16984-48-8	
Sulfate	**1270**	mg/L	25.0	12.5	25		02/11/22 05:19	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2 Rev 2.0 1993 Pace Analytical Services - Asheville								
Nitrogen, NO2 plus NO3	ND	mg/L	0.040	0.017	1		02/18/22 09:48		
5310B Dissolved Organic Carbon	Analytical Method: SM 5310B Pace Analytical Services - Ormond Beach								
Dissolved Organic Carbon	**0.53 I**	mg/L	1.0	0.50	1		02/10/22 20:19		

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(770)734-4200

ANALYTICAL RESULTS

Project: BRANCH AP-BCD
Pace Project No.: 92585977

Sample: BRGWC-27I **Lab ID: 92585977009** Collected: 02/04/22 08:50 Received: 02/04/22 16:06 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		02/07/22 09:56		
pH	**5.97**	Std. Units			1		02/07/22 09:56		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.095**	mg/L	0.040	0.025	1	02/15/22 11:54	02/15/22 19:48	7439-89-6	
Manganese	**0.88**	mg/L	0.040	0.0043	1	02/15/22 11:54	02/15/22 19:48	7439-96-5	
Potassium	**4.9**	mg/L	0.20	0.15	1	02/15/22 11:54	02/15/22 19:48	7440-09-7	
Sodium	**14.1**	mg/L	1.0	0.58	1	02/15/22 11:54	02/15/22 19:48	7440-23-5	
Calcium	**61.7**	mg/L	1.0	0.12	1	02/15/22 11:54	02/15/22 19:48	7440-70-2	
Magnesium	**5.5**	mg/L	0.050	0.012	1	02/15/22 11:54	02/15/22 19:48	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	02/15/22 10:27	02/15/22 21:04	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/15/22 10:27	02/15/22 21:04	7440-38-2	
Barium	**0.015**	mg/L	0.0050	0.00067	1	02/15/22 10:27	02/15/22 21:04	7440-39-3	
Beryllium	**0.000054J**	mg/L	0.00050	0.000054	1	02/15/22 10:27	02/15/22 21:04	7440-41-7	
Boron	**1.0**	mg/L	0.040	0.0086	1	02/15/22 10:27	02/15/22 21:04	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/15/22 10:27	02/15/22 21:04	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/15/22 10:27	02/15/22 21:04	7440-47-3	
Cobalt	**0.0076**	mg/L	0.0050	0.00039	1	02/15/22 10:27	02/15/22 21:04	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/15/22 10:27	02/15/22 21:04	7439-92-1	
Lithium	**0.0010J**	mg/L	0.030	0.00073	1	02/15/22 10:27	02/15/22 21:04	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/15/22 10:27	02/15/22 21:04	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/15/22 10:27	02/15/22 21:04	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/15/22 10:27	02/15/22 21:04	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/14/22 15:15	02/15/22 09:43	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**301**	mg/L	10.0	10.0	1		02/09/22 18:02		
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Minneapolis								
Alkalinity, Total as CaCO3	**31.3**	mg/L	5.0	1.8	1		02/10/22 21:36		
Alkalinity,Bicarbonate (CaCO3)	**31.3**	mg/L	5.0	1.8	1		02/10/22 21:36		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		02/10/22 21:36		

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD
Pace Project No.: 92585977

Sample: BRGWC-27I **Lab ID: 92585977009** Collected: 02/04/22 08:50 Received: 02/04/22 16:06 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**4.6**	mg/L	1.0	0.60	1		02/10/22 23:05	16887-00-6	
Fluoride	**0.14**	mg/L	0.10	0.050	1		02/10/22 23:05	16984-48-8	
Sulfate	**172**	mg/L	4.0	2.0	4		02/11/22 05:34	14808-79-8	

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD
Pace Project No.: 92585977

Sample: BRGWC-29I **Lab ID: 92585977010** Collected: 02/03/22 17:00 Received: 02/04/22 16:06 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		02/07/22 09:57		
pH	**4.23**	Std. Units			1		02/07/22 09:57		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**29.2**	mg/L	0.040	0.025	1	02/15/22 11:54	02/15/22 19:53	7439-89-6	
Manganese	**1.2**	mg/L	0.040	0.0043	1	02/15/22 11:54	02/15/22 19:53	7439-96-5	
Potassium	**9.0**	mg/L	0.20	0.15	1	02/15/22 11:54	02/15/22 19:53	7440-09-7	
Sodium	**15.0**	mg/L	1.0	0.58	1	02/15/22 11:54	02/15/22 19:53	7440-23-5	
Calcium	**58.7**	mg/L	1.0	0.12	1	02/15/22 11:54	02/15/22 19:53	7440-70-2	
Magnesium	**7.3**	mg/L	0.050	0.012	1	02/15/22 11:54	02/15/22 19:53	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	02/15/22 10:27	02/15/22 21:22	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/15/22 10:27	02/16/22 20:33	7440-38-2	
Barium	**0.016**	mg/L	0.0050	0.00067	1	02/15/22 10:27	02/15/22 21:22	7440-39-3	
Beryllium	**0.00083**	mg/L	0.00050	0.000054	1	02/15/22 10:27	02/15/22 21:22	7440-41-7	
Boron	**0.93**	mg/L	0.040	0.0086	1	02/15/22 10:27	02/15/22 21:22	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/15/22 10:27	02/15/22 21:22	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/15/22 10:27	02/15/22 21:22	7440-47-3	
Cobalt	**0.0077**	mg/L	0.0050	0.00039	1	02/15/22 10:27	02/15/22 21:22	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/15/22 10:27	02/15/22 21:22	7439-92-1	
Lithium	**0.0026J**	mg/L	0.030	0.00073	1	02/15/22 10:27	02/15/22 21:22	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/15/22 10:27	02/15/22 21:22	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/15/22 10:27	02/15/22 21:22	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/15/22 10:27	02/15/22 21:22	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/14/22 15:15	02/15/22 09:50	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**419**	mg/L	10.0	10.0	1		02/09/22 10:13		
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Minneapolis								
Alkalinity, Total as CaCO3	ND	mg/L	5.0	1.8	1		02/10/22 22:11		
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	1.8	1		02/10/22 22:11		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		02/10/22 22:11		

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD
Pace Project No.: 92585977

Sample: BRGWC-29I **Lab ID: 92585977010** Collected: 02/03/22 17:00 Received: 02/04/22 16:06 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**6.1**	mg/L	1.0	0.60	1		02/10/22 23:20	16887-00-6	
Fluoride	**0.11**	mg/L	0.10	0.050	1		02/10/22 23:20	16984-48-8	
Sulfate	**274**	mg/L	6.0	3.0	6		02/11/22 05:48	14808-79-8	

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD
Pace Project No.: 92585977

Sample: DUP-3 **Lab ID: 92585977011** Collected: 02/03/22 00:00 Received: 02/04/22 16:06 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**29.8**	mg/L	0.040	0.025	1	02/15/22 11:54	02/15/22 19:58	7439-89-6	
Manganese	**1.2**	mg/L	0.040	0.0043	1	02/15/22 11:54	02/15/22 19:58	7439-96-5	
Potassium	**9.2**	mg/L	0.20	0.15	1	02/15/22 11:54	02/15/22 19:58	7440-09-7	
Sodium	**15.2**	mg/L	1.0	0.58	1	02/15/22 11:54	02/15/22 19:58	7440-23-5	
Calcium	**59.3**	mg/L	1.0	0.12	1	02/15/22 11:54	02/15/22 19:58	7440-70-2	
Magnesium	**7.4**	mg/L	0.050	0.012	1	02/15/22 11:54	02/15/22 19:58	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	02/15/22 10:27	02/15/22 21:28	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/15/22 10:27	02/16/22 20:39	7440-38-2	
Barium	**0.015**	mg/L	0.0050	0.00067	1	02/15/22 10:27	02/15/22 21:28	7440-39-3	
Beryllium	**0.00081**	mg/L	0.00050	0.000054	1	02/15/22 10:27	02/15/22 21:28	7440-41-7	
Boron	**0.96**	mg/L	0.040	0.0086	1	02/15/22 10:27	02/15/22 21:28	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/15/22 10:27	02/15/22 21:28	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/15/22 10:27	02/15/22 21:28	7440-47-3	
Cobalt	**0.0072**	mg/L	0.0050	0.00039	1	02/15/22 10:27	02/15/22 21:28	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/15/22 10:27	02/15/22 21:28	7439-92-1	
Lithium	**0.0028J**	mg/L	0.030	0.00073	1	02/15/22 10:27	02/15/22 21:28	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/15/22 10:27	02/15/22 21:28	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/15/22 10:27	02/15/22 21:28	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/15/22 10:27	02/15/22 21:28	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/14/22 15:15	02/15/22 09:53	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**435**	mg/L	10.0	10.0	1		02/09/22 10:13		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**6.3**	mg/L	1.0	0.60	1		02/10/22 23:35	16887-00-6	
Fluoride	**0.12**	mg/L	0.10	0.050	1		02/10/22 23:35	16984-48-8	
Sulfate	**285**	mg/L	6.0	3.0	6		02/11/22 06:03	14808-79-8	

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QUALITY CONTROL DATA

Project: BRANCH AP-BCD
Pace Project No.: 92585977

QC Batch: 678354
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92585977001, 92585977002, 92585977003, 92585977004, 92585977005, 92585977006, 92585977007, 92585977008, 92585977009, 92585977010, 92585977011

METHOD BLANK: 3549970 Matrix: Water
Associated Lab Samples: 92585977001, 92585977002, 92585977003, 92585977004, 92585977005, 92585977006, 92585977007, 92585977008, 92585977009, 92585977010, 92585977011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	02/15/22 18:32	
Hardness, Total(SM 2340B)	mg/L	ND	2.7	0.35	02/15/22 18:32	
Iron	mg/L	ND	0.040	0.025	02/15/22 18:32	
Magnesium	mg/L	ND	0.050	0.012	02/15/22 18:32	
Manganese	mg/L	ND	0.040	0.0043	02/15/22 18:32	
Potassium	mg/L	ND	0.20	0.15	02/15/22 18:32	
Sodium	mg/L	ND	1.0	0.58	02/15/22 18:32	

LABORATORY CONTROL SAMPLE: 3549971

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	100	80-120	
Hardness, Total(SM 2340B)	mg/L	6.6	6.7	101	80-120	
Iron	mg/L	1	1.1	108	80-120	
Magnesium	mg/L	1	1.0	102	80-120	
Manganese	mg/L	1	1.0	100	80-120	
Potassium	mg/L	1	0.95	95	80-120	
Sodium	mg/L	1	1.0	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3549972 3549973

Parameter	Units	92585977002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	232	1	1	237	230	468	-240	75-125	3	20	M1
Hardness, Total(SM 2340B)	mg/L	772	6.6	6.6	793	770	320	-25	75-125	3	20	
Iron	mg/L	1.1	1	1	2.2	2.1	110	103	75-125	4	20	
Magnesium	mg/L	46.7	1	1	49.0	47.8	231	106	75-125	3	20	M1
Manganese	mg/L	0.80	1	1	1.8	1.8	102	98	75-125	2	20	
Potassium	mg/L	5.5	1	1	6.6	6.5	111	97	75-125	2	20	
Sodium	mg/L	27.5	1	1	29.1	28.2	157	72	75-125	3	20	M1

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QUALITY CONTROL DATA

Project: BRANCH AP-BCD
Pace Project No.: 92585977

QC Batch: 678313
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92585977001, 92585977002, 92585977003, 92585977004, 92585977005, 92585977006, 92585977007, 92585977008, 92585977009, 92585977010, 92585977011

METHOD BLANK: 3549798 Matrix: Water
Associated Lab Samples: 92585977001, 92585977002, 92585977003, 92585977004, 92585977005, 92585977006, 92585977007, 92585977008, 92585977009, 92585977010, 92585977011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	02/15/22 18:59	
Arsenic	mg/L	ND	0.0050	0.0011	02/15/22 18:59	
Barium	mg/L	ND	0.0050	0.00067	02/15/22 18:59	
Beryllium	mg/L	ND	0.00050	0.000054	02/15/22 18:59	
Boron	mg/L	ND	0.040	0.0086	02/15/22 18:59	
Cadmium	mg/L	ND	0.00050	0.00011	02/15/22 18:59	
Chromium	mg/L	ND	0.0050	0.0011	02/15/22 18:59	
Cobalt	mg/L	ND	0.0050	0.00039	02/15/22 18:59	
Lead	mg/L	ND	0.0010	0.00089	02/15/22 18:59	
Lithium	mg/L	ND	0.030	0.00073	02/15/22 18:59	
Molybdenum	mg/L	ND	0.010	0.00074	02/15/22 18:59	
Selenium	mg/L	ND	0.0050	0.0014	02/15/22 18:59	
Thallium	mg/L	ND	0.0010	0.00018	02/15/22 18:59	

LABORATORY CONTROL SAMPLE: 3549799

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	108	80-120	
Arsenic	mg/L	0.1	0.10	104	80-120	
Barium	mg/L	0.1	0.10	104	80-120	
Beryllium	mg/L	0.1	0.10	103	80-120	
Boron	mg/L	1	1.0	101	80-120	
Cadmium	mg/L	0.1	0.10	103	80-120	
Chromium	mg/L	0.1	0.10	104	80-120	
Cobalt	mg/L	0.1	0.10	100	80-120	
Lead	mg/L	0.1	0.11	109	80-120	
Lithium	mg/L	0.1	0.10	101	80-120	
Molybdenum	mg/L	0.1	0.11	106	80-120	
Selenium	mg/L	0.1	0.10	104	80-120	
Thallium	mg/L	0.1	0.11	109	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3549800 3549801

Parameter	Units	92585977001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.11	0.11	113	107	75-125	6	20	

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QUALITY CONTROL DATA

Project: BRANCH AP-BCD
Pace Project No.: 92585977

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3549800 3549801

Parameter	Units	92585977001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	ND	0.1	0.1	0.10	0.099	105	99	75-125	6	20	
Barium	mg/L	0.023	0.1	0.1	0.14	0.13	121	103	75-125	14	20	
Beryllium	mg/L	ND	0.1	0.1	0.097	0.092	97	92	75-125	5	20	
Boron	mg/L	1.1	1	1	2.2	2.1	106	98	75-125	4	20	
Cadmium	mg/L	ND	0.1	0.1	0.11	0.098	105	98	75-125	7	20	
Chromium	mg/L	ND	0.1	0.1	0.10	0.10	104	100	75-125	4	20	
Cobalt	mg/L	0.0027J	0.1	0.1	0.10	0.096	102	93	75-125	8	20	
Lead	mg/L	ND	0.1	0.1	0.10	0.096	101	96	75-125	5	20	
Lithium	mg/L	ND	0.1	0.1	0.098	0.093	98	93	75-125	5	20	
Molybdenum	mg/L	0.0011J	0.1	0.1	0.11	0.11	109	104	75-125	4	20	
Selenium	mg/L	ND	0.1	0.1	0.10	0.097	104	96	75-125	7	20	
Thallium	mg/L	ND	0.1	0.1	0.10	0.096	101	96	75-125	5	20	

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QUALITY CONTROL DATA

Project: BRANCH AP-BCD
Pace Project No.: 92585977

QC Batch: 677192 — Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A — Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92585977001, 92585977002, 92585977003, 92585977004, 92585977005

METHOD BLANK: 3544417 — Matrix: Water
Associated Lab Samples: 92585977001, 92585977002, 92585977003, 92585977004, 92585977005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	02/10/22 10:43	

LABORATORY CONTROL SAMPLE: 3544418

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0022	88	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3544419 3544420

Parameter	Units	92585977001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0020	0.0020	78	80	75-125	2	20	

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QUALITY CONTROL DATA

Project: BRANCH AP-BCD
Pace Project No.: 92585977

QC Batch: 678089 | Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A | Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92585977006, 92585977007, 92585977008, 92585977009, 92585977010, 92585977011

METHOD BLANK: 3548804 Matrix: Water
Associated Lab Samples: 92585977006, 92585977007, 92585977008, 92585977009, 92585977010, 92585977011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	02/15/22 09:19	

LABORATORY CONTROL SAMPLE: 3548805

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0025	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3548806 3548807

Parameter	Units	92585977006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0025	0.0025	101	98	75-125	2	20	

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QUALITY CONTROL DATA

Project: BRANCH AP-BCD
Pace Project No.: 92585977

QC Batch: 676439 | Analysis Method: SM 2540C-2015
QC Batch Method: SM 2540C-2015 | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92585977001, 92585977002, 92585977003, 92585977004, 92585977005, 92585977006, 92585977007

METHOD BLANK: 3540519 Matrix: Water
Associated Lab Samples: 92585977001, 92585977002, 92585977003, 92585977004, 92585977005, 92585977006, 92585977007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	02/07/22 17:19	

LABORATORY CONTROL SAMPLE: 3540520

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	374	94	80-120	

SAMPLE DUPLICATE: 3540521

Parameter	Units	92585555019 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	180	181	1	25	

SAMPLE DUPLICATE: 3540522

Parameter	Units	92585920011 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	96.0	94.0	2	25	

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QUALITY CONTROL DATA

Project: BRANCH AP-BCD
Pace Project No.: 92585977

QC Batch: 676886 | Analysis Method: SM 2540C-2015
QC Batch Method: SM 2540C-2015 | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92585977008, 92585977010, 92585977011

METHOD BLANK: 3542886 Matrix: Water
Associated Lab Samples: 92585977008, 92585977010, 92585977011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	02/09/22 10:12	

LABORATORY CONTROL SAMPLE: 3542887

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	374	94	80-120	

SAMPLE DUPLICATE: 3542888

Parameter	Units	92585920029 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	538	574	6	25	

SAMPLE DUPLICATE: 3542889

Parameter	Units	92585979010 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1380	1350	2	25	

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QUALITY CONTROL DATA

Project: BRANCH AP-BCD
Pace Project No.: 92585977

QC Batch: 676887
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92585977009

METHOD BLANK: 3542890 Matrix: Water
Associated Lab Samples: 92585977009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	02/09/22 18:00	

LABORATORY CONTROL SAMPLE: 3542891

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	386	96	80-120	

SAMPLE DUPLICATE: 3542892

Parameter	Units	92585561016 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	ND	ND		25	

SAMPLE DUPLICATE: 3542893

Parameter	Units	92586685001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1990	1860	7	25	

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QUALITY CONTROL DATA

Project: BRANCH AP-BCD
Pace Project No.: 92585977

QC Batch: 798120 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 92585977001, 92585977002, 92585977003, 92585977004, 92585977005, 92585977006

METHOD BLANK: 4240836 Matrix: Water
Associated Lab Samples: 92585977001, 92585977002, 92585977003, 92585977004, 92585977005, 92585977006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	1.8	02/10/22 14:25	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	1.8	02/10/22 14:25	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	1.8	02/10/22 14:25	

LABORATORY CONTROL SAMPLE & LCSD: 4240837 4240838

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	40	40.3	40.3	101	101	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4240839 4240840

Parameter	Units	92585979009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	3.2J	40	40	45.9	45.7	107	106	80-120	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4240841 4240842

Parameter	Units	10596592002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	16.2	40	40	58.1	58.3	105	105	80-120	0	20	

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QUALITY CONTROL DATA

Project: BRANCH AP-BCD
Pace Project No.: 92585977

QC Batch: 798366 | Analysis Method: SM 2320B
QC Batch Method: SM 2320B | Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 92585977008, 92585977009, 92585977010

METHOD BLANK: 4241914 Matrix: Water
Associated Lab Samples: 92585977008, 92585977009, 92585977010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	1.8	02/10/22 19:52	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	1.8	02/10/22 19:52	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	1.8	02/10/22 19:52	

LABORATORY CONTROL SAMPLE & LCSD: 4241915 4241916

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	40	41.9	42.2	105	105	90-110	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4241917 4241918

Parameter	Units	10597082001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	23.0	40	40	62.8	63.0	100	100	80-120	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4241919 4241920

Parameter	Units	92586436012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	76.7	40	40	116	116	98	99	80-120	0	20	

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QUALITY CONTROL DATA

Project: BRANCH AP-BCD
Pace Project No.: 92585977

QC Batch: 676994
QC Batch Method: SM 3500-Fe B-2011
Analysis Method: SM 3500-Fe B-2011
Analysis Description: Iron, Ferrous
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92585977008

METHOD BLANK: 3543126 Matrix: Water
Associated Lab Samples: 92585977008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Iron, Ferrous	mg/L	ND	0.50	0.040	02/09/22 11:19	N2

LABORATORY CONTROL SAMPLE: 3543127

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	1.5	1.5	103	90-110	N2

SAMPLE DUPLICATE: 3543128

Parameter	Units	92584808011 Result	Dup Result	RPD	Max RPD	Qualifiers
Iron, Ferrous	mg/L	ND	0.22J		10	H3,N2

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QUALITY CONTROL DATA

Project: BRANCH AP-BCD
Pace Project No.: 92585977

QC Batch: 676918
QC Batch Method: SM 4500-S2D-2011
Analysis Method: SM 4500-S2D-2011
Analysis Description: 4500S2D Sulfide Water
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92585977008

METHOD BLANK: 3542979 Matrix: Water
Associated Lab Samples: 92585977008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.050	02/09/22 03:08	

LABORATORY CONTROL SAMPLE: 3542980

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.50	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3542981 3542982

Parameter	Units	92586721004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.48	0.48	95	95	80-120	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3542983 3542984

Parameter	Units	92586721001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.51	0.53	99	103	80-120	3	10	

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QUALITY CONTROL DATA

Project: BRANCH AP-BCD
Pace Project No.: 92585977

QC Batch: 676560
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92585977001, 92585977002, 92585977003, 92585977004, 92585977005, 92585977006, 92585977007

METHOD BLANK: 3541375 Matrix: Water
Associated Lab Samples: 92585977001, 92585977002, 92585977003, 92585977004, 92585977005, 92585977006, 92585977007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/07/22 23:37	
Fluoride	mg/L	ND	0.10	0.050	02/07/22 23:37	
Sulfate	mg/L	ND	1.0	0.50	02/07/22 23:37	

LABORATORY CONTROL SAMPLE: 3541376

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	51.9	104	90-110	
Fluoride	mg/L	2.5	2.4	97	90-110	
Sulfate	mg/L	50	51.2	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3541377 3541378

Parameter	Units	92586448001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	12.0	50	50	64.1	64.0	104	104	90-110	0	10	
Fluoride	mg/L	ND	2.5	2.5	2.5	2.5	97	98	90-110	0	10	
Sulfate	mg/L	7.4	50	50	59.4	59.5	104	104	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3541379 3541380

Parameter	Units	92585977005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	4.2	50	50	57.0	57.1	106	106	90-110	0	10	
Fluoride	mg/L	ND	2.5	2.5	2.5	2.5	98	100	90-110	2	10	
Sulfate	mg/L	1170	50	50	1160	1150	-14	-27	90-110	1	10	M1

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QUALITY CONTROL DATA

Project: BRANCH AP-BCD
Pace Project No.: 92585977

QC Batch: 677218
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92585977008, 92585977009, 92585977010, 92585977011

METHOD BLANK: 3544578 Matrix: Water
Associated Lab Samples: 92585977008, 92585977009, 92585977010, 92585977011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/10/22 15:27	
Fluoride	mg/L	ND	0.10	0.050	02/10/22 15:27	
Sulfate	mg/L	ND	1.0	0.50	02/10/22 15:27	

LABORATORY CONTROL SAMPLE: 3544579

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	53.6	107	90-110	
Fluoride	mg/L	2.5	2.6	104	90-110	
Sulfate	mg/L	50	52.8	106	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3544580 3544581

Parameter	Units	92586778001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	61.7	50	50	110	110	96	97	90-110	0	10	
Fluoride	mg/L	ND	2.5	2.5	3.1	3.1	120	121	90-110	1	10	M1
Sulfate	mg/L	52.4	50	50	103	103	101	101	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3544582 3544583

Parameter	Units	92585920032 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	7.5	50	50	66.0	66.0	117	117	90-110	0	10	M1
Fluoride	mg/L	ND	2.5	2.5	2.8	2.9	113	114	90-110	1	10	M1
Sulfate	mg/L	65.0	50	50	114	114	98	97	90-110	0	10	

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QUALITY CONTROL DATA

Project: BRANCH AP-BCD
Pace Project No.: 92585977

QC Batch: 678945
QC Batch Method: EPA 353.2 Rev 2.0 1993
Analysis Method: EPA 353.2 Rev 2.0 1993
Analysis Description: 353.2 Nitrate + Nitrite, preserved
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92585977008

METHOD BLANK: 3552861 Matrix: Water
Associated Lab Samples: 92585977008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	ND	0.040	0.017	02/18/22 09:25	

LABORATORY CONTROL SAMPLE: 3552862

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2.5	2.5	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3552863 3552864

Parameter	Units	92585013023 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	ND	2.5	2.5	2.3	2.3	91	90	90-110	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3552865 3552866

Parameter	Units	92585013024 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	0.16	2.5	2.5	2.6	2.5	96	95	90-110	1	10	

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Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: BRANCH AP-BCD
Pace Project No.: 92585977

QC Batch: 799039
QC Batch Method: SM 5310B
Analysis Method: SM 5310B
Analysis Description: 5310B Dissolved Organic Carbon
Laboratory: Pace Analytical Services - Ormond Beach
Associated Lab Samples: 92585977008

METHOD BLANK: 4387547 Matrix: Water
Associated Lab Samples: 92585977008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	ND	1.0	0.50	02/10/22 17:39	

LABORATORY CONTROL SAMPLE: 4387548

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	20	18.6	93	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4387551 4387552

Parameter	Units	92585979009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Dissolved Organic Carbon	mg/L	0.57 I	20	20	17.8	18.9	86	92	80-120	6	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4387553 4387554

Parameter	Units	92585464001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Dissolved Organic Carbon	mg/L	1.4	20	20	19.1	19.2	88	89	80-120	0	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: BRANCH AP-BCD
Pace Project No.: 92585977

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

BC	The same analyte was detected in an associated blank at a concentration above 1/2 the reporting limit but below the laboratory reporting limit.
H3	Sample was received or analysis requested beyond the recognized method holding time.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
N2	The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

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110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRANCH AP-BCD
Pace Project No.: 92585977

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92585977001	**BRGWC-25I**				
92585977002	**BRGWC-30I**				
92585977003	**BRGWC-32S**				
92585977004	**BRGWC-45**				
92585977005	**BRGWC-47**				
92585977006	**BRGWC-52I**				
92585977008	**BRGWC-50**				
92585977009	**BRGWC-27I**				
92585977010	**BRGWC-29I**				
92585977001	**BRGWC-25I**	EPA 3010A	678354	EPA 6010D	678446
92585977002	**BRGWC-30I**	EPA 3010A	678354	EPA 6010D	678446
92585977003	**BRGWC-32S**	EPA 3010A	678354	EPA 6010D	678446
92585977004	**BRGWC-45**	EPA 3010A	678354	EPA 6010D	678446
92585977005	**BRGWC-47**	EPA 3010A	678354	EPA 6010D	678446
92585977006	**BRGWC-52I**	EPA 3010A	678354	EPA 6010D	678446
92585977007	**DUP-2**	EPA 3010A	678354	EPA 6010D	678446
92585977008	**BRGWC-50**	EPA 3010A	678354	EPA 6010D	678446
92585977009	**BRGWC-27I**	EPA 3010A	678354	EPA 6010D	678446
92585977010	**BRGWC-29I**	EPA 3010A	678354	EPA 6010D	678446
92585977011	**DUP-3**	EPA 3010A	678354	EPA 6010D	678446
92585977001	**BRGWC-25I**	EPA 3005A	678313	EPA 6020B	678442
92585977002	**BRGWC-30I**	EPA 3005A	678313	EPA 6020B	678442
92585977003	**BRGWC-32S**	EPA 3005A	678313	EPA 6020B	678442
92585977004	**BRGWC-45**	EPA 3005A	678313	EPA 6020B	678442
92585977005	**BRGWC-47**	EPA 3005A	678313	EPA 6020B	678442
92585977006	**BRGWC-52I**	EPA 3005A	678313	EPA 6020B	678442
92585977007	**DUP-2**	EPA 3005A	678313	EPA 6020B	678442
92585977008	**BRGWC-50**	EPA 3005A	678313	EPA 6020B	678442
92585977009	**BRGWC-27I**	EPA 3005A	678313	EPA 6020B	678442
92585977010	**BRGWC-29I**	EPA 3005A	678313	EPA 6020B	678442
92585977011	**DUP-3**	EPA 3005A	678313	EPA 6020B	678442
92585977001	**BRGWC-25I**	EPA 7470A	677192	EPA 7470A	677322
92585977002	**BRGWC-30I**	EPA 7470A	677192	EPA 7470A	677322
92585977003	**BRGWC-32S**	EPA 7470A	677192	EPA 7470A	677322
92585977004	**BRGWC-45**	EPA 7470A	677192	EPA 7470A	677322
92585977005	**BRGWC-47**	EPA 7470A	677192	EPA 7470A	677322
92585977006	**BRGWC-52I**	EPA 7470A	678089	EPA 7470A	678299
92585977007	**DUP-2**	EPA 7470A	678089	EPA 7470A	678299
92585977008	**BRGWC-50**	EPA 7470A	678089	EPA 7470A	678299
92585977009	**BRGWC-27I**	EPA 7470A	678089	EPA 7470A	678299
92585977010	**BRGWC-29I**	EPA 7470A	678089	EPA 7470A	678299
92585977011	**DUP-3**	EPA 7470A	678089	EPA 7470A	678299
92585977001	**BRGWC-25I**	SM 2540C-2015	676439		
92585977002	**BRGWC-30I**	SM 2540C-2015	676439		
92585977003	**BRGWC-32S**	SM 2540C-2015	676439		
92585977004	**BRGWC-45**	SM 2540C-2015	676439		

REPORT OF LABORATORY ANALYSIS

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110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRANCH AP-BCD
Pace Project No.: 92585977

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92585977005	**BRGWC-47**	SM 2540C-2015	676439		
92585977006	**BRGWC-52I**	SM 2540C-2015	676439		
92585977007	**DUP-2**	SM 2540C-2015	676439		
92585977008	**BRGWC-50**	SM 2540C-2015	676886		
92585977009	**BRGWC-27I**	SM 2540C-2015	676887		
92585977010	**BRGWC-29I**	SM 2540C-2015	676886		
92585977011	**DUP-3**	SM 2540C-2015	676886		
92585977001	**BRGWC-25I**	SM 2320B	798120		
92585977002	**BRGWC-30I**	SM 2320B	798120		
92585977003	**BRGWC-32S**	SM 2320B	798120		
92585977004	**BRGWC-45**	SM 2320B	798120		
92585977005	**BRGWC-47**	SM 2320B	798120		
92585977006	**BRGWC-52I**	SM 2320B	798120		
92585977008	**BRGWC-50**	SM 2320B	798366		
92585977009	**BRGWC-27I**	SM 2320B	798366		
92585977010	**BRGWC-29I**	SM 2320B	798366		
92585977008	**BRGWC-50**	SM 3500-Fe D#4	679361		
92585977008	**BRGWC-50**	SM 3500-Fe B-2011	676994		
92585977008	**BRGWC-50**	SM 4500-S2D-2011	676918		
92585977001	**BRGWC-25I**	EPA 300.0 Rev 2.1 1993	676560		
92585977002	**BRGWC-30I**	EPA 300.0 Rev 2.1 1993	676560		
92585977003	**BRGWC-32S**	EPA 300.0 Rev 2.1 1993	676560		
92585977004	**BRGWC-45**	EPA 300.0 Rev 2.1 1993	676560		
92585977005	**BRGWC-47**	EPA 300.0 Rev 2.1 1993	676560		
92585977006	**BRGWC-52I**	EPA 300.0 Rev 2.1 1993	676560		
92585977007	**DUP-2**	EPA 300.0 Rev 2.1 1993	676560		
92585977008	**BRGWC-50**	EPA 300.0 Rev 2.1 1993	677218		
92585977009	**BRGWC-27I**	EPA 300.0 Rev 2.1 1993	677218		
92585977010	**BRGWC-29I**	EPA 300.0 Rev 2.1 1993	677218		
92585977011	**DUP-3**	EPA 300.0 Rev 2.1 1993	677218		
92585977008	**BRGWC-50**	EPA 353.2 Rev 2.0 1993	678945		
92585977008	**BRGWC-50**	SM 5310B	799039		

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Pace Analytical	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: November 15, 2021 Page 1 of 2
	Document No.: F-CAR-CS-033-Rev.08	Issuing Authority: Pace Carolinas Quality Office

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☒ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Georgia Power

Project #: **WO# : 92585977**

92585977

Courier: ☒ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Pace ☐ Other:____

Custody Seal Present? ☐ Yes ☒ No **Seals Intact?** ☐ Yes ☐ No

Date/Initials Person Examining Contents: CAP 2/3/9

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☒ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☒ N/A

Thermometer: ☐ IR Gun ID: 214 **Type of Ice:** ☒ Wet ☐ Blue ☐ None

Cooler Temp: 2.6 **Correction Factor:** Add/Subtract (°C) +0.1

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 2.7

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☒ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☒ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☒ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: WT				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☒ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☒ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☒ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ **Date:** _____

Project Manager SRF Review: _____ **Date:** _____

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 1 Of 1

Section A
Required Client Information:
Company: Georgia Power - Coal Combustion Residuals
Address: 1100 Milledgeville Rd
Milledgeville, GA 31061
Email: jebraham@southernco.com
Phone: (404) 506-7239 Fax
Requested Due Date: 10 Day TAT

Section B
Required Project Information:
Report To: Joju Abraham
Copy To: Golder
Purchase Order #:
Project Name: Plant Branch AP-BCD
Project #: 166525421

Section C
Invoice Information:
Attention: scsinvoices@southernco.com
Company Name:
Address:
Pace Quote:
Pace Project Manager: Kevin Heming
Pace Profile #:

Regulatory Agency:
State / Location: GA

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Analysis Test: App III/IV Total Metals	Cl, F, SO4, TDS	Radium 226/228	Fe, Mn, K, Na, Mg	Alkalinity (total, carbonate, bicarbonate)	Residual Chlorine (Y/N)	
	Matrix Codes: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS															Y/N	N	N	N	N		
1	BRGWC-25I	WT	G	2/2/2022	14:44		6	3		3						X	X	X	X	X		pH = 6.23
2	BRGWC-26I	WT	G	2/2/2022	12:30		6	3		3						X	X	X	X	X		pH = 6.34
3	BRGWC-32S	WT	G	2/2/2022	14:55		6	3		3						X	X	X	X	X		pH = 5.99
4	BRGWC-45	WT	G	2/2/2022	10:42		6	3		3						X	X	X	X	X		pH = 5.92
5	BRGWC-47	WT	G	2/2/2022	9:40		6	3		3						X	X	X	X	X		pH = 5.75
6	BRGWC-52I	WT	G	2/2/2022	13:34		8	3		5						X	X	X	X	X		pH = 6.35
7	Dup-2	WT	G	2/2/2022	-		5	2		3						X	X	X				
8																						
9																						
10																						
11																						
12																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	JW.../Sampler	2/3/22	8:40	Elaine Cook	2/3/22	8:40	
				[illegible]	2/3	1035	

JUDE NAGUESPACK / JW...

DATE Signed: 2/3/22

TEMP in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

Pace Analytical	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: November 15, 2021 Page 1 of 2
	Document No.: F-CAR-CS-033-Rev.08	Issuing Authority: Pace Carolinas Quality Office

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA power

Project # WO#: 92585977

Courier: ☐ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Pace ☐ Other:

PM: NMG Due Date: 02/17/22
CLIENT: GA-GA Power

Custody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☑ No

Date/Initials Person Examining Contents: MS 2/17/22

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☑ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☐ IR Gun ID: 214

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 3.3 **Correction Factor:** Add/Subtract (°C) ±0.1

Cooler Temp Corrected (°C): 3.4

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☑ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: WT				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 1 Of 1

Section A – Required Client Information:	Section B – Required Project Information:	Section C – Invoice Information:
Company: Georgia Power - Coal Combustion Residuals	Report To: Jaju Abraham	Attention: scsinvoices@southernco.com
Address: 1100 Milledgeville Rd	Copy To: Golder	Company Name:
Milledgeville, GA 31061		Address:
Email: jabraham@southernco.com	Purchase Order #:	Pace Quote:
Phone: (404) 506-7238 Fax:	Project Name: Plant Branch AP-BCD	Pace Project Manager: Kevin Herring
Requested Due Date: 10 Day TAT	Project #: 186625421	Pace Profile #:

Regulatory Agency

State / Location: GA

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Analysis Test: App III/IV Total Metals	Cl, F, SO4, TDS	Radium 226/228	Fe, Mn, K, Na, Mg	Alkalinity (total, carbonate, bicarbonate)	Sulfide	NO2+NO3	DOC	Ferrous/Ferric Iron	Residual Chlorine (Y/N)	
	Y/N															N	N	N	N	N	N	N	Y	N		
1	BRGWC-50	WT	G	2/3/2022	11:46		12	4	1	3	3	1				X	X	X	X	X	X	X	X	X		pH = 5.20
2	BRGWC-271	WT	G	2/4/2022	8:50		6	3		3						X	X	X	X	X						pH = 5.87
3	BRGWC-298	WT	G	2/3/2022	17:00		6	3		3						X	X	X	X	X						pH = 4.23
4	DUP-3	WT	G	2/3/2022	--		5	2		3						X	X	X	X							
5																										
6																										
7																										
8																										
9																										
10																										
11																										
12																										

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	[signature]	2/4/22	16:06	[signature]	2/4/22	1608	

Jude Wadvesphen / Golder — DATE Signed: 2/4/22

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

October 22, 2021

Joju Abraham
Georgia Power-CCR
2480 Maner Road
Atlanta, GA 30339

RE: Project: BRANCH AP-BCD
Pace Project No.: 92563226

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between September 23, 2021 and September 29, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte
- Pace Analytical Services - Peachtree Corners, GA

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Nicole D'Oleo

Nicole D'Oleo
nicole.d'oleo@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Daniela Herrera, Golder
Ben Hodges, Georgia Power
Jimmy Jones, Golder Associates Inc.
Kristen Jurinko
Julie Lehrman, Golder Associates Inc.
Ms. Lauren Petty, Southern Company
Carolyn Powrozek, Golder
Dawn Prell, Golder Associates Inc.
Tim Richards, Golder Associates - Atlanta
Brian Steele, Golder

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

CERTIFICATIONS

Project: BRANCH AP-BCD
Pace Project No.: 92563226

Pace Analytical Services Charlotte
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

Pace Analytical Services Asheville
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners
110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
North Carolina Certification #: 381
South Carolina Certification #: 98011001

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SAMPLE SUMMARY

Project: BRANCH AP-BCD
Pace Project No.: 92563226

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92563226001	**BRGWC-45**	Water	09/23/21 12:15	09/23/21 17:10
92563226002	**BRGWC-47**	Water	09/23/21 13:35	09/23/21 17:10
92563226003	**BRGWC-50**	Water	09/27/21 13:05	09/28/21 10:18
92563226004	**DUP-2**	Water	09/27/21 00:00	09/28/21 10:18
92563226005	**BRGWC-25I**	Water	09/28/21 11:26	09/29/21 11:57
92563226006	**BRGWC-27I**	Water	09/28/21 14:30	09/29/21 11:57
92563226007	**BRGWC-29I**	Water	09/28/21 12:51	09/29/21 11:57
92563226008	**BRGWC-30I**	Water	09/28/21 16:30	09/29/21 11:57
92563226009	**BRGWC-32S**	Water	09/28/21 16:40	09/29/21 11:57
92563226010	**EB-2**	Water	09/28/21 14:50	09/29/21 11:57
92563226011	**FB-2**	Water	09/28/21 13:15	09/29/21 11:57
92563226012	**DUP-3**	Water	09/28/21 00:00	09/29/21 11:57
92563226013	**BRGWC-52I**	Water	09/28/21 16:16	09/29/21 11:57
92563226014	**FB-3**	Water	09/28/21 16:15	09/29/21 11:57
92563226015	**EB-3**	Water	09/28/21 16:40	09/29/21 11:57

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SAMPLE ANALYTE COUNT

Project: BRANCH AP-BCD
Pace Project No.: 92563226

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92563226001	**BRGWC-45**	EPA 6010D	DRB	1
		EPA 6020B	KH	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92563226002	**BRGWC-47**	EPA 6010D	DRB	1
		EPA 6020B	KH	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92563226003	**BRGWC-50**	EPA 6010D	DRB	7
		EPA 6020B	CW1, KH	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		SM 2320B-2011	SMK	3
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 353.2 Rev 2.0 1993	KDF1	1
92563226004	**DUP-2**	EPA 6010D	DRB	7
		EPA 6020B	CW1, KH	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		SM 2320B-2011	SMK	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92563226005	**BRGWC-25I**	EPA 6010D	DRB	1
		EPA 6020B	KH	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92563226006	**BRGWC-27I**	EPA 6010D	DRB	1
		EPA 6020B	KH	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92563226007	**BRGWC-29I**	EPA 6010D	DRB	1
		EPA 6020B	KH	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BRANCH AP-BCD
Pace Project No.: 92563226

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 300.0 Rev 2.1 1993	CDC	3
92563226008	**BRGWC-30I**	EPA 6010D	DRB	1
		EPA 6020B	KH	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92563226009	**BRGWC-32S**	EPA 6010D	DRB	1
		EPA 6020B	KH	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92563226010	**EB-2**	EPA 6010D	DRB	1
		EPA 6020B	KH	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92563226011	**FB-2**	EPA 6010D	DRB	1
		EPA 6020B	KH	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92563226012	**DUP-3**	EPA 6010D	DRB	1
		EPA 6020B	KH	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92563226013	**BRGWC-52I**	EPA 6010D	DRB	7
		EPA 6020B	KH	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		SM 2320B-2011	SMK	3
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 353.2 Rev 2.0 1993	KDF1	1
92563226014	**FB-3**	EPA 6010D	DRB	7
		EPA 6020B	KH	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1

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SAMPLE ANALYTE COUNT

Project: BRANCH AP-BCD
Pace Project No.: 92563226

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		SM 2320B-2011	SMK	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92563226015	**EB-3**	EPA 6010D	DRB	7
		EPA 6020B	KH	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		SM 2320B-2011	SMK	3
		EPA 300.0 Rev 2.1 1993	CDC	3

PASI-A = Pace Analytical Services - Asheville
PASI-C = Pace Analytical Services - Charlotte
PASI-GA = Pace Analytical Services - Peachtree Corners, GA

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Peachtree Corners, GA 30092
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SUMMARY OF DETECTION

Project: BRANCH AP-BCD
Pace Project No.: 92563226

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92563226001	**BRGWC-45**					
	Performed by	CUSTOMER			09/24/21 10:45	
	pH	5.95	Std. Units		09/24/21 10:45	
EPA 6010D	Calcium	32.0	mg/L	1.0	10/06/21 18:27	M1
EPA 6020B	Barium	0.064	mg/L	0.0050	10/08/21 17:17	
EPA 6020B	Boron	0.029J	mg/L	0.040	10/08/21 17:17	
EPA 6020B	Cobalt	0.0049J	mg/L	0.0050	10/08/21 17:17	
EPA 6020B	Lithium	0.0023J	mg/L	0.030	10/08/21 17:17	
SM 2540C-2011	Total Dissolved Solids	277	mg/L	10.0	09/30/21 18:57	
EPA 300.0 Rev 2.1 1993	Chloride	29.3	mg/L	1.0	09/27/21 08:04	
EPA 300.0 Rev 2.1 1993	Fluoride	0.060J	mg/L	0.10	09/27/21 08:04	
EPA 300.0 Rev 2.1 1993	Sulfate	97.5	mg/L	2.0	09/27/21 15:33	
92563226002	**BRGWC-47**					
	Performed by	CUSTOMER			09/24/21 10:46	
	pH	5.74	Std. Units		09/24/21 10:46	
EPA 6010D	Calcium	336	mg/L	10.0	10/07/21 16:32	
EPA 6020B	Arsenic	0.0020J	mg/L	0.0050	10/08/21 17:22	
EPA 6020B	Barium	0.031	mg/L	0.0050	10/08/21 17:22	
EPA 6020B	Boron	0.47	mg/L	0.040	10/08/21 17:22	
EPA 6020B	Lithium	0.042	mg/L	0.030	10/08/21 17:22	
SM 2540C-2011	Total Dissolved Solids	1770	mg/L	100	09/30/21 18:58	
EPA 300.0 Rev 2.1 1993	Chloride	4.3	mg/L	1.0	09/27/21 08:19	
EPA 300.0 Rev 2.1 1993	Sulfate	1240	mg/L	27.0	09/27/21 15:48	
92563226003	**BRGWC-50**					
	Performed by	CUSTOMER			09/28/21 17:32	
	pH	5.05	Std. Units		09/28/21 17:32	
EPA 6010D	Manganese	78.0	mg/L	0.40	10/07/21 16:37	
EPA 6010D	Iron	0.15	mg/L	0.040	10/06/21 18:51	
EPA 6010D	Potassium	9.7	mg/L	0.20	10/06/21 18:51	
EPA 6010D	Sodium	46.3	mg/L	1.0	10/06/21 18:51	
EPA 6010D	Calcium	196	mg/L	1.0	10/06/21 18:51	
EPA 6010D	Magnesium	136	mg/L	0.050	10/06/21 18:51	
EPA 6010D	Hardness, Total(SM 2340B)	1050	mg/L	2.7	10/06/21 18:51	
EPA 6020B	Barium	0.017	mg/L	0.0050	10/08/21 17:45	
EPA 6020B	Beryllium	0.0060	mg/L	0.00050	10/08/21 17:45	
EPA 6020B	Boron	0.32	mg/L	0.040	10/08/21 17:45	
EPA 6020B	Cadmium	0.0095	mg/L	0.00050	10/08/21 17:45	
EPA 6020B	Cobalt	1.3	mg/L	0.050	10/11/21 14:39	
EPA 6020B	Lithium	0.038	mg/L	0.030	10/08/21 17:45	
EPA 6020B	Selenium	0.0022J	mg/L	0.0050	10/08/21 17:45	
SM 2540C-2011	Total Dissolved Solids	1800	mg/L	100	09/30/21 19:01	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	11.2	mg/L	5.0	10/07/21 19:14	
SM 2320B-2011	Alkalinity, Total as CaCO3	11.2	mg/L	5.0	10/07/21 19:14	
EPA 300.0 Rev 2.1 1993	Chloride	16.2	mg/L	1.0	09/30/21 16:20	
EPA 300.0 Rev 2.1 1993	Fluoride	0.43	mg/L	0.10	09/30/21 16:20	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: BRANCH AP-BCD
Pace Project No.: 92563226

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92563226003	**BRGWC-50**					
EPA 300.0 Rev 2.1 1993	Sulfate	1180	mg/L	26.0	10/01/21 04:31	
92563226004	**DUP-2**					
EPA 6010D	Manganese	76.2	mg/L	0.40	10/07/21 16:41	
EPA 6010D	Iron	0.14	mg/L	0.040	10/06/21 18:56	
EPA 6010D	Potassium	9.4	mg/L	0.20	10/06/21 18:56	
EPA 6010D	Sodium	45.2	mg/L	1.0	10/06/21 18:56	
EPA 6010D	Calcium	191	mg/L	1.0	10/06/21 18:56	
EPA 6010D	Magnesium	133	mg/L	0.050	10/06/21 18:56	
EPA 6010D	Hardness, Total(SM 2340B)	1020	mg/L	2.7	10/06/21 18:56	
EPA 6020B	Barium	0.018	mg/L	0.0050	10/08/21 17:51	
EPA 6020B	Beryllium	0.0058	mg/L	0.00050	10/08/21 17:51	
EPA 6020B	Boron	0.32	mg/L	0.040	10/08/21 17:51	
EPA 6020B	Cadmium	0.0099	mg/L	0.00050	10/08/21 17:51	
EPA 6020B	Cobalt	1.3	mg/L	0.050	10/11/21 14:45	
EPA 6020B	Lithium	0.039	mg/L	0.030	10/08/21 17:51	
EPA 6020B	Selenium	0.0022J	mg/L	0.0050	10/08/21 17:51	
SM 2540C-2011	Total Dissolved Solids	1840	mg/L	100	09/30/21 19:01	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	10.3	mg/L	5.0	10/07/21 19:20	
SM 2320B-2011	Alkalinity, Total as CaCO3	10.3	mg/L	5.0	10/07/21 19:20	
EPA 300.0 Rev 2.1 1993	Chloride	16.2	mg/L	1.0	09/30/21 16:36	
EPA 300.0 Rev 2.1 1993	Fluoride	0.46	mg/L	0.10	09/30/21 16:36	
EPA 300.0 Rev 2.1 1993	Sulfate	1170	mg/L	26.0	10/01/21 04:47	M1
92563226005	**BRGWC-25I**					
	Performed by	CUSTOMER			09/29/21 13:17	
	pH	5.97	Std. Units		09/29/21 13:17	
EPA 6010D	Calcium	38.4	mg/L	1.0	10/06/21 19:10	
EPA 6020B	Barium	0.023	mg/L	0.0050	10/08/21 17:57	
EPA 6020B	Boron	1.1	mg/L	0.040	10/08/21 17:57	
EPA 6020B	Cobalt	0.0029J	mg/L	0.0050	10/08/21 17:57	
EPA 6020B	Molybdenum	0.00089J	mg/L	0.010	10/08/21 17:57	
SM 2540C-2011	Total Dissolved Solids	270	mg/L	10.0	10/03/21 11:39	
EPA 300.0 Rev 2.1 1993	Chloride	4.2	mg/L	1.0	09/30/21 22:10	
EPA 300.0 Rev 2.1 1993	Fluoride	0.15	mg/L	0.10	09/30/21 22:10	
EPA 300.0 Rev 2.1 1993	Sulfate	112	mg/L	3.0	10/01/21 08:27	
92563226006	**BRGWC-27I**					
	Performed by	CUSTOMER			09/29/21 13:17	
	pH	5.82	Std. Units		09/29/21 13:17	
EPA 6010D	Calcium	50.4	mg/L	1.0	10/06/21 19:15	
EPA 6020B	Barium	0.013	mg/L	0.0050	10/08/21 18:18	
EPA 6020B	Boron	0.95	mg/L	0.040	10/08/21 18:18	
EPA 6020B	Cobalt	0.0047J	mg/L	0.0050	10/08/21 18:18	
EPA 6020B	Lithium	0.0011J	mg/L	0.030	10/08/21 18:18	
SM 2540C-2011	Total Dissolved Solids	262	mg/L	10.0	10/03/21 11:40	
EPA 300.0 Rev 2.1 1993	Chloride	3.7	mg/L	1.0	09/30/21 22:26	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: BRANCH AP-BCD
Pace Project No.: 92563226

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92563226006	**BRGWC-27I**					
EPA 300.0 Rev 2.1 1993	Fluoride	0.16	mg/L	0.10	09/30/21 22:26	
EPA 300.0 Rev 2.1 1993	Sulfate	137	mg/L	3.0	10/01/21 08:42	
92563226007	**BRGWC-29I**					
	Performed by	CUSTOMER			09/29/21 13:17	
	pH	4.23	Std. Units		09/29/21 13:17	
EPA 6010D	Calcium	59.5	mg/L	1.0	10/06/21 19:20	
EPA 6020B	Barium	0.017	mg/L	0.0050	10/08/21 18:24	
EPA 6020B	Beryllium	0.00079	mg/L	0.00050	10/08/21 18:24	
EPA 6020B	Boron	0.90	mg/L	0.040	10/08/21 18:24	
EPA 6020B	Cobalt	0.0069	mg/L	0.0050	10/08/21 18:24	
EPA 6020B	Lithium	0.0029J	mg/L	0.030	10/08/21 18:24	
EPA 6020B	Selenium	0.0022J	mg/L	0.0050	10/08/21 18:24	
SM 2540C-2011	Total Dissolved Solids	457	mg/L	10.0	10/03/21 11:40	
EPA 300.0 Rev 2.1 1993	Chloride	5.4	mg/L	1.0	09/30/21 22:42	
EPA 300.0 Rev 2.1 1993	Fluoride	0.081J	mg/L	0.10	09/30/21 22:42	
EPA 300.0 Rev 2.1 1993	Sulfate	250	mg/L	6.0	10/01/21 08:58	
92563226008	**BRGWC-30I**					
	Performed by	CUSTOMER			09/29/21 13:17	
	pH	6.33	Std. Units		09/29/21 13:17	
EPA 6010D	Calcium	212	mg/L	1.0	10/06/21 19:25	
EPA 6020B	Barium	0.035	mg/L	0.0050	10/08/21 18:30	
EPA 6020B	Boron	1.7	mg/L	0.040	10/08/21 18:30	
EPA 6020B	Cobalt	0.0010J	mg/L	0.0050	10/08/21 18:30	
EPA 6020B	Lithium	0.023J	mg/L	0.030	10/08/21 18:30	
EPA 6020B	Molybdenum	0.0010J	mg/L	0.010	10/08/21 18:30	
SM 2540C-2011	Total Dissolved Solids	1050	mg/L	20.0	10/03/21 11:40	
EPA 300.0 Rev 2.1 1993	Chloride	3.4	mg/L	1.0	09/30/21 22:58	
EPA 300.0 Rev 2.1 1993	Fluoride	0.11	mg/L	0.10	09/30/21 22:58	
EPA 300.0 Rev 2.1 1993	Sulfate	612	mg/L	14.0	10/01/21 09:14	
92563226009	**BRGWC-32S**					
	Performed by	CUSTOMER			09/29/21 13:17	
	pH	5.82	Std. Units		09/29/21 13:17	
EPA 6010D	Calcium	33.9	mg/L	1.0	10/06/21 19:30	
EPA 6020B	Barium	0.020	mg/L	0.0050	10/08/21 18:35	
EPA 6020B	Boron	0.91	mg/L	0.040	10/08/21 18:35	
EPA 6020B	Chromium	0.0021J	mg/L	0.0050	10/08/21 18:35	
EPA 6020B	Lithium	0.0021J	mg/L	0.030	10/08/21 18:35	
EPA 6020B	Selenium	0.13	mg/L	0.0050	10/08/21 18:35	
SM 2540C-2011	Total Dissolved Solids	375	mg/L	10.0	10/03/21 11:40	
EPA 300.0 Rev 2.1 1993	Chloride	3.6	mg/L	1.0	09/30/21 23:14	
EPA 300.0 Rev 2.1 1993	Sulfate	189	mg/L	4.0	10/01/21 09:29	
92563226012	**DUP-3**					
EPA 6010D	Calcium	209	mg/L	1.0	10/06/21 19:44	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: BRANCH AP-BCD
Pace Project No.: 92563226

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92563226012	**DUP-3**					
EPA 6020B	Barium	0.034	mg/L	0.0050	10/08/21 18:53	
EPA 6020B	Boron	1.6	mg/L	0.040	10/08/21 18:53	
EPA 6020B	Cobalt	0.0010J	mg/L	0.0050	10/08/21 18:53	
EPA 6020B	Lithium	0.023J	mg/L	0.030	10/08/21 18:53	
EPA 6020B	Molybdenum	0.00096J	mg/L	0.010	10/08/21 18:53	
SM 2540C-2011	Total Dissolved Solids	1140	mg/L	20.0	10/04/21 15:36	
EPA 300.0 Rev 2.1 1993	Chloride	3.5	mg/L	1.0	10/01/21 00:02	
EPA 300.0 Rev 2.1 1993	Fluoride	0.11	mg/L	0.10	10/01/21 00:02	
EPA 300.0 Rev 2.1 1993	Sulfate	609	mg/L	14.0	10/01/21 09:45	
92563226013	**BRGWC-52I**					
	Performed by	CUSTOMER			09/29/21 13:18	
	pH	6.81	Std. Units		09/29/21 13:18	
EPA 6010D	Iron	5.7	mg/L	0.040	10/06/21 19:49	
EPA 6010D	Manganese	0.76	mg/L	0.040	10/06/21 19:49	
EPA 6010D	Potassium	4.8	mg/L	0.20	10/06/21 19:49	
EPA 6010D	Sodium	18.2	mg/L	1.0	10/06/21 19:49	
EPA 6010D	Calcium	39.5	mg/L	1.0	10/06/21 19:49	
EPA 6010D	Magnesium	17.6	mg/L	0.050	10/06/21 19:49	
EPA 6010D	Hardness, Total(SM 2340B)	171	mg/L	2.7	10/06/21 19:49	
EPA 6020B	Barium	0.013	mg/L	0.0050	10/08/21 18:58	
EPA 6020B	Boron	1.4	mg/L	0.040	10/08/21 18:58	
EPA 6020B	Lithium	0.0035J	mg/L	0.030	10/08/21 18:58	
SM 2540C-2011	Total Dissolved Solids	336	mg/L	10.0	10/04/21 15:36	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	75.4	mg/L	5.0	10/11/21 23:30	
SM 2320B-2011	Alkalinity, Total as CaCO3	75.4	mg/L	5.0	10/11/21 23:30	
EPA 300.0 Rev 2.1 1993	Chloride	5.5	mg/L	1.0	10/01/21 00:18	
EPA 300.0 Rev 2.1 1993	Fluoride	0.12	mg/L	0.10	10/01/21 00:18	
EPA 300.0 Rev 2.1 1993	Sulfate	132	mg/L	3.0	10/01/21 10:01	

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD
Pace Project No.: 92563226

Sample: BRGWC-45 **Lab ID: 92563226001** Collected: 09/23/21 12:15 Received: 09/23/21 17:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		09/24/21 10:45		
pH	**5.95**	Std. Units			1		09/24/21 10:45		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**32.0**	mg/L	1.0	0.12	1	10/06/21 14:05	10/06/21 18:27	7440-70-2	M1
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	10/07/21 09:38	10/08/21 17:17	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	10/07/21 09:38	10/08/21 17:17	7440-38-2	
Barium	**0.064**	mg/L	0.0050	0.00067	1	10/07/21 09:38	10/08/21 17:17	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	10/07/21 09:38	10/08/21 17:17	7440-41-7	
Boron	**0.029J**	mg/L	0.040	0.0086	1	10/07/21 09:38	10/08/21 17:17	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	10/07/21 09:38	10/08/21 17:17	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	10/07/21 09:38	10/08/21 17:17	7440-47-3	
Cobalt	**0.0049J**	mg/L	0.0050	0.00039	1	10/07/21 09:38	10/08/21 17:17	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	10/07/21 09:38	10/08/21 17:17	7439-92-1	
Lithium	**0.0023J**	mg/L	0.030	0.00073	1	10/07/21 09:38	10/08/21 17:17	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	10/07/21 09:38	10/08/21 17:17	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	10/07/21 09:38	10/08/21 17:17	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	10/07/21 09:38	10/08/21 17:17	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	10/11/21 15:05	10/12/21 09:45	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**277**	mg/L	10.0	10.0	1		09/30/21 18:57		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**29.3**	mg/L	1.0	0.60	1		09/27/21 08:04	16887-00-6	
Fluoride	**0.060J**	mg/L	0.10	0.050	1		09/27/21 08:04	16984-48-8	
Sulfate	**97.5**	mg/L	2.0	1.0	2		09/27/21 15:33	14808-79-8	

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD
Pace Project No.: 92563226

Sample: BRGWC-47 **Lab ID: 92563226002** Collected: 09/23/21 13:35 Received: 09/23/21 17:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		09/24/21 10:46		
pH	**5.74**	Std. Units			1		09/24/21 10:46		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**336**	mg/L	10.0	1.2	10	10/06/21 14:05	10/07/21 16:32	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	10/07/21 09:38	10/08/21 17:22	7440-36-0	
Arsenic	**0.0020J**	mg/L	0.0050	0.0011	1	10/07/21 09:38	10/08/21 17:22	7440-38-2	
Barium	**0.031**	mg/L	0.0050	0.00067	1	10/07/21 09:38	10/08/21 17:22	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	10/07/21 09:38	10/08/21 17:22	7440-41-7	
Boron	**0.47**	mg/L	0.040	0.0086	1	10/07/21 09:38	10/08/21 17:22	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	10/07/21 09:38	10/08/21 17:22	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	10/07/21 09:38	10/08/21 17:22	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	10/07/21 09:38	10/08/21 17:22	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	10/07/21 09:38	10/08/21 17:22	7439-92-1	
Lithium	**0.042**	mg/L	0.030	0.00073	1	10/07/21 09:38	10/08/21 17:22	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	10/07/21 09:38	10/08/21 17:22	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	10/07/21 09:38	10/08/21 17:22	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	10/07/21 09:38	10/08/21 17:22	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	10/11/21 15:05	10/12/21 09:47	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**1770**	mg/L	100	100	1		09/30/21 18:58		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**4.3**	mg/L	1.0	0.60	1		09/27/21 08:19	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/27/21 08:19	16984-48-8	
Sulfate	**1240**	mg/L	27.0	13.5	27		09/27/21 15:48	14808-79-8	

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD
Pace Project No.: 92563226

Sample: BRGWC-50 **Lab ID: 92563226003** Collected: 09/27/21 13:05 Received: 09/28/21 10:18 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		09/28/21 17:32		
pH	**5.05**	Std. Units			1		09/28/21 17:32		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Manganese	**78.0**	mg/L	0.40	0.043	10	10/06/21 14:05	10/07/21 16:37	7439-96-5	
Iron	**0.15**	mg/L	0.040	0.025	1	10/06/21 14:05	10/06/21 18:51	7439-89-6	
Potassium	**9.7**	mg/L	0.20	0.15	1	10/06/21 14:05	10/06/21 18:51	7440-09-7	
Sodium	**46.3**	mg/L	1.0	0.58	1	10/06/21 14:05	10/06/21 18:51	7440-23-5	
Calcium	**196**	mg/L	1.0	0.12	1	10/06/21 14:05	10/06/21 18:51	7440-70-2	
Magnesium	**136**	mg/L	0.050	0.012	1	10/06/21 14:05	10/06/21 18:51	7439-95-4	
Hardness, Total(SM 2340B)	**1050**	mg/L	2.7	0.35	1	10/06/21 14:05	10/06/21 18:51		
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	10/07/21 09:38	10/08/21 17:45	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	10/07/21 09:38	10/08/21 17:45	7440-38-2	
Barium	**0.017**	mg/L	0.0050	0.00067	1	10/07/21 09:38	10/08/21 17:45	7440-39-3	
Beryllium	**0.0060**	mg/L	0.00050	0.000054	1	10/07/21 09:38	10/08/21 17:45	7440-41-7	
Boron	**0.32**	mg/L	0.040	0.0086	1	10/07/21 09:38	10/08/21 17:45	7440-42-8	
Cadmium	**0.0095**	mg/L	0.00050	0.00011	1	10/07/21 09:38	10/08/21 17:45	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	10/07/21 09:38	10/08/21 17:45	7440-47-3	
Cobalt	**1.3**	mg/L	0.050	0.0039	10	10/07/21 09:38	10/11/21 14:39	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	10/07/21 09:38	10/08/21 17:45	7439-92-1	
Lithium	**0.038**	mg/L	0.030	0.00073	1	10/07/21 09:38	10/08/21 17:45	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	10/07/21 09:38	10/08/21 17:45	7439-98-7	
Selenium	**0.0022J**	mg/L	0.0050	0.0014	1	10/07/21 09:38	10/08/21 17:45	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	10/07/21 09:38	10/08/21 17:45	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	10/11/21 15:05	10/12/21 09:50	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**1800**	mg/L	100	100	1		09/30/21 19:01		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**11.2**	mg/L	5.0	5.0	1		10/07/21 19:14		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		10/07/21 19:14		
Alkalinity, Total as CaCO3	**11.2**	mg/L	5.0	5.0	1		10/07/21 19:14		

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD
Pace Project No.: 92563226

Sample: BRGWC-50 **Lab ID: 92563226003** Collected: 09/27/21 13:05 Received: 09/28/21 10:18 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**16.2**	mg/L	1.0	0.60	1		09/30/21 16:20	16887-00-6	
Fluoride	**0.43**	mg/L	0.10	0.050	1		09/30/21 16:20	16984-48-8	
Sulfate	**1180**	mg/L	26.0	13.0	26		10/01/21 04:31	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2 Rev 2.0 1993 Pace Analytical Services - Asheville								
Nitrogen, NO2 plus NO3	ND	mg/L	0.040	0.017	1		10/11/21 11:31		

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD
Pace Project No.: 92563226

Sample: DUP-2 **Lab ID: 92563226004** Collected: 09/27/21 00:00 Received: 09/28/21 10:18 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Manganese	**76.2**	mg/L	0.40	0.043	10	10/06/21 14:05	10/07/21 16:41	7439-96-5	
Iron	**0.14**	mg/L	0.040	0.025	1	10/06/21 14:05	10/06/21 18:56	7439-89-6	
Potassium	**9.4**	mg/L	0.20	0.15	1	10/06/21 14:05	10/06/21 18:56	7440-09-7	
Sodium	**45.2**	mg/L	1.0	0.58	1	10/06/21 14:05	10/06/21 18:56	7440-23-5	
Calcium	**191**	mg/L	1.0	0.12	1	10/06/21 14:05	10/06/21 18:56	7440-70-2	
Magnesium	**133**	mg/L	0.050	0.012	1	10/06/21 14:05	10/06/21 18:56	7439-95-4	
Hardness, Total(SM 2340B)	**1020**	mg/L	2.7	0.35	1	10/06/21 14:05	10/06/21 18:56		
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	10/07/21 09:38	10/08/21 17:51	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	10/07/21 09:38	10/08/21 17:51	7440-38-2	
Barium	**0.018**	mg/L	0.0050	0.00067	1	10/07/21 09:38	10/08/21 17:51	7440-39-3	
Beryllium	**0.0058**	mg/L	0.00050	0.000054	1	10/07/21 09:38	10/08/21 17:51	7440-41-7	
Boron	**0.32**	mg/L	0.040	0.0086	1	10/07/21 09:38	10/08/21 17:51	7440-42-8	
Cadmium	**0.0099**	mg/L	0.00050	0.00011	1	10/07/21 09:38	10/08/21 17:51	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	10/07/21 09:38	10/08/21 17:51	7440-47-3	
Cobalt	**1.3**	mg/L	0.050	0.0039	10	10/07/21 09:38	10/11/21 14:45	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	10/07/21 09:38	10/08/21 17:51	7439-92-1	
Lithium	**0.039**	mg/L	0.030	0.00073	1	10/07/21 09:38	10/08/21 17:51	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	10/07/21 09:38	10/08/21 17:51	7439-98-7	
Selenium	**0.0022J**	mg/L	0.0050	0.0014	1	10/07/21 09:38	10/08/21 17:51	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	10/07/21 09:38	10/08/21 17:51	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	10/11/21 15:05	10/12/21 10:02	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**1840**	mg/L	100	100	1		09/30/21 19:01		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**10.3**	mg/L	5.0	5.0	1		10/07/21 19:20		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		10/07/21 19:20		
Alkalinity, Total as CaCO3	**10.3**	mg/L	5.0	5.0	1		10/07/21 19:20		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**16.2**	mg/L	1.0	0.60	1		09/30/21 16:36	16887-00-6	
Fluoride	**0.46**	mg/L	0.10	0.050	1		09/30/21 16:36	16984-48-8	
Sulfate	**1170**	mg/L	26.0	13.0	26		10/01/21 04:47	14808-79-8	M1

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD
Pace Project No.: 92563226

Sample: BRGWC-25I **Lab ID: 92563226005** Collected: 09/28/21 11:26 Received: 09/29/21 11:57 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		09/29/21 13:17		
pH	**5.97**	Std. Units			1		09/29/21 13:17		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**38.4**	mg/L	1.0	0.12	1	10/06/21 14:05	10/06/21 19:10	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	10/07/21 09:38	10/08/21 17:57	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	10/07/21 09:38	10/08/21 17:57	7440-38-2	
Barium	**0.023**	mg/L	0.0050	0.00067	1	10/07/21 09:38	10/08/21 17:57	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	10/07/21 09:38	10/08/21 17:57	7440-41-7	
Boron	**1.1**	mg/L	0.040	0.0086	1	10/07/21 09:38	10/08/21 17:57	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	10/07/21 09:38	10/08/21 17:57	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	10/07/21 09:38	10/08/21 17:57	7440-47-3	
Cobalt	**0.0029J**	mg/L	0.0050	0.00039	1	10/07/21 09:38	10/08/21 17:57	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	10/07/21 09:38	10/08/21 17:57	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	10/07/21 09:38	10/08/21 17:57	7439-93-2	
Molybdenum	**0.00089J**	mg/L	0.010	0.00074	1	10/07/21 09:38	10/08/21 17:57	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	10/07/21 09:38	10/08/21 17:57	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	10/07/21 09:38	10/08/21 17:57	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	10/11/21 15:05	10/12/21 10:04	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**270**	mg/L	10.0	10.0	1		10/03/21 11:39		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**4.2**	mg/L	1.0	0.60	1		09/30/21 22:10	16887-00-6	
Fluoride	**0.15**	mg/L	0.10	0.050	1		09/30/21 22:10	16984-48-8	
Sulfate	**112**	mg/L	3.0	1.5	3		10/01/21 08:27	14808-79-8	

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD
Pace Project No.: 92563226

Sample: BRGWC-27I **Lab ID: 92563226006** Collected: 09/28/21 14:30 Received: 09/29/21 11:57 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		09/29/21 13:17		
pH	**5.82**	Std. Units			1		09/29/21 13:17		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**50.4**	mg/L	1.0	0.12	1	10/06/21 14:05	10/06/21 19:15	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	10/07/21 09:38	10/08/21 18:18	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	10/07/21 09:38	10/08/21 18:18	7440-38-2	
Barium	**0.013**	mg/L	0.0050	0.00067	1	10/07/21 09:38	10/08/21 18:18	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	10/07/21 09:38	10/08/21 18:18	7440-41-7	
Boron	**0.95**	mg/L	0.040	0.0086	1	10/07/21 09:38	10/08/21 18:18	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	10/07/21 09:38	10/08/21 18:18	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	10/07/21 09:38	10/08/21 18:18	7440-47-3	
Cobalt	**0.0047J**	mg/L	0.0050	0.00039	1	10/07/21 09:38	10/08/21 18:18	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	10/07/21 09:38	10/08/21 18:18	7439-92-1	
Lithium	**0.0011J**	mg/L	0.030	0.00073	1	10/07/21 09:38	10/08/21 18:18	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	10/07/21 09:38	10/08/21 18:18	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	10/07/21 09:38	10/08/21 18:18	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	10/07/21 09:38	10/08/21 18:18	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	10/11/21 15:05	10/12/21 10:12	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**262**	mg/L	10.0	10.0	1		10/03/21 11:40		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**3.7**	mg/L	1.0	0.60	1		09/30/21 22:26	16887-00-6	
Fluoride	**0.16**	mg/L	0.10	0.050	1		09/30/21 22:26	16984-48-8	
Sulfate	**137**	mg/L	3.0	1.5	3		10/01/21 08:42	14808-79-8	

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD
Pace Project No.: 92563226

Sample: BRGWC-29I **Lab ID: 92563226007** Collected: 09/28/21 12:51 Received: 09/29/21 11:57 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		09/29/21 13:17		
pH	**4.23**	Std. Units			1		09/29/21 13:17		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**59.5**	mg/L	1.0	0.12	1	10/06/21 14:05	10/06/21 19:20	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	10/07/21 09:38	10/08/21 18:24	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	10/07/21 09:38	10/08/21 18:24	7440-38-2	
Barium	**0.017**	mg/L	0.0050	0.00067	1	10/07/21 09:38	10/08/21 18:24	7440-39-3	
Beryllium	**0.00079**	mg/L	0.00050	0.000054	1	10/07/21 09:38	10/08/21 18:24	7440-41-7	
Boron	**0.90**	mg/L	0.040	0.0086	1	10/07/21 09:38	10/08/21 18:24	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	10/07/21 09:38	10/08/21 18:24	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	10/07/21 09:38	10/08/21 18:24	7440-47-3	
Cobalt	**0.0069**	mg/L	0.0050	0.00039	1	10/07/21 09:38	10/08/21 18:24	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	10/07/21 09:38	10/08/21 18:24	7439-92-1	
Lithium	**0.0029J**	mg/L	0.030	0.00073	1	10/07/21 09:38	10/08/21 18:24	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	10/07/21 09:38	10/08/21 18:24	7439-98-7	
Selenium	**0.0022J**	mg/L	0.0050	0.0014	1	10/07/21 09:38	10/08/21 18:24	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	10/07/21 09:38	10/08/21 18:24	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	10/11/21 15:05	10/12/21 10:15	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**457**	mg/L	10.0	10.0	1		10/03/21 11:40		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**5.4**	mg/L	1.0	0.60	1		09/30/21 22:42	16887-00-6	
Fluoride	**0.081J**	mg/L	0.10	0.050	1		09/30/21 22:42	16984-48-8	
Sulfate	**250**	mg/L	6.0	3.0	6		10/01/21 08:58	14808-79-8	

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD
Pace Project No.: 92563226

Sample: BRGWC-30I **Lab ID: 92563226008** Collected: 09/28/21 16:30 Received: 09/29/21 11:57 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		09/29/21 13:17		
pH	**6.33**	Std. Units			1		09/29/21 13:17		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**212**	mg/L	1.0	0.12	1	10/06/21 14:05	10/06/21 19:25	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	10/07/21 09:38	10/08/21 18:30	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	10/07/21 09:38	10/08/21 18:30	7440-38-2	
Barium	**0.035**	mg/L	0.0050	0.00067	1	10/07/21 09:38	10/08/21 18:30	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	10/07/21 09:38	10/08/21 18:30	7440-41-7	
Boron	**1.7**	mg/L	0.040	0.0086	1	10/07/21 09:38	10/08/21 18:30	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	10/07/21 09:38	10/08/21 18:30	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	10/07/21 09:38	10/08/21 18:30	7440-47-3	
Cobalt	**0.0010J**	mg/L	0.0050	0.00039	1	10/07/21 09:38	10/08/21 18:30	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	10/07/21 09:38	10/08/21 18:30	7439-92-1	
Lithium	**0.023J**	mg/L	0.030	0.00073	1	10/07/21 09:38	10/08/21 18:30	7439-93-2	
Molybdenum	**0.0010J**	mg/L	0.010	0.00074	1	10/07/21 09:38	10/08/21 18:30	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	10/07/21 09:38	10/08/21 18:30	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	10/07/21 09:38	10/08/21 18:30	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	10/11/21 15:05	10/12/21 10:18	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**1050**	mg/L	20.0	20.0	1		10/03/21 11:40		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**3.4**	mg/L	1.0	0.60	1		09/30/21 22:58	16887-00-6	
Fluoride	**0.11**	mg/L	0.10	0.050	1		09/30/21 22:58	16984-48-8	
Sulfate	**612**	mg/L	14.0	7.0	14		10/01/21 09:14	14808-79-8	

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD
Pace Project No.: 92563226

Sample: BRGWC-32S **Lab ID: 92563226009** Collected: 09/28/21 16:40 Received: 09/29/21 11:57 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		09/29/21 13:17		
pH	**5.82**	Std. Units			1		09/29/21 13:17		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**33.9**	mg/L	1.0	0.12	1	10/06/21 14:05	10/06/21 19:30	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	10/07/21 09:38	10/08/21 18:35	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	10/07/21 09:38	10/08/21 18:35	7440-38-2	
Barium	**0.020**	mg/L	0.0050	0.00067	1	10/07/21 09:38	10/08/21 18:35	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	10/07/21 09:38	10/08/21 18:35	7440-41-7	
Boron	**0.91**	mg/L	0.040	0.0086	1	10/07/21 09:38	10/08/21 18:35	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	10/07/21 09:38	10/08/21 18:35	7440-43-9	
Chromium	**0.0021J**	mg/L	0.0050	0.0011	1	10/07/21 09:38	10/08/21 18:35	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	10/07/21 09:38	10/08/21 18:35	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	10/07/21 09:38	10/08/21 18:35	7439-92-1	
Lithium	**0.0021J**	mg/L	0.030	0.00073	1	10/07/21 09:38	10/08/21 18:35	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	10/07/21 09:38	10/08/21 18:35	7439-98-7	
Selenium	**0.13**	mg/L	0.0050	0.0014	1	10/07/21 09:38	10/08/21 18:35	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	10/07/21 09:38	10/08/21 18:35	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	10/11/21 15:05	10/12/21 10:20	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**375**	mg/L	10.0	10.0	1		10/03/21 11:40		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**3.6**	mg/L	1.0	0.60	1		09/30/21 23:14	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/30/21 23:14	16984-48-8	
Sulfate	**189**	mg/L	4.0	2.0	4		10/01/21 09:29	14808-79-8	

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD
Pace Project No.: 92563226

Sample: EB-2 **Lab ID: 92563226010** Collected: 09/28/21 14:50 Received: 09/29/21 11:57 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	ND	mg/L	1.0	0.12	1	10/06/21 14:05	10/06/21 19:34	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	10/07/21 09:38	10/08/21 18:41	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	10/07/21 09:38	10/08/21 18:41	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	10/07/21 09:38	10/08/21 18:41	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	10/07/21 09:38	10/08/21 18:41	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	10/07/21 09:38	10/08/21 18:41	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	10/07/21 09:38	10/08/21 18:41	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	10/07/21 09:38	10/08/21 18:41	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	10/07/21 09:38	10/08/21 18:41	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	10/07/21 09:38	10/08/21 18:41	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	10/07/21 09:38	10/08/21 18:41	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	10/07/21 09:38	10/08/21 18:41	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	10/07/21 09:38	10/08/21 18:41	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	10/07/21 09:38	10/08/21 18:41	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	10/11/21 15:05	10/12/21 10:23	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		10/03/21 11:40		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		09/30/21 23:30	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/30/21 23:30	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		09/30/21 23:30	14808-79-8	

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD
Pace Project No.: 92563226

Sample: FB-2 **Lab ID: 92563226011** Collected: 09/28/21 13:15 Received: 09/29/21 11:57 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	ND	mg/L	1.0	0.12	1	10/06/21 14:05	10/06/21 19:39	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	10/07/21 09:38	10/08/21 18:47	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	10/07/21 09:38	10/08/21 18:47	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	10/07/21 09:38	10/08/21 18:47	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	10/07/21 09:38	10/08/21 18:47	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	10/07/21 09:38	10/08/21 18:47	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	10/07/21 09:38	10/08/21 18:47	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	10/07/21 09:38	10/08/21 18:47	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	10/07/21 09:38	10/08/21 18:47	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	10/07/21 09:38	10/08/21 18:47	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	10/07/21 09:38	10/08/21 18:47	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	10/07/21 09:38	10/08/21 18:47	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	10/07/21 09:38	10/08/21 18:47	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	10/07/21 09:38	10/08/21 18:47	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	10/11/21 15:05	10/12/21 10:25	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		10/03/21 11:40		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		09/30/21 23:46	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/30/21 23:46	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		09/30/21 23:46	14808-79-8	

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD
Pace Project No.: 92563226

Sample: DUP-3 **Lab ID: 92563226012** Collected: 09/28/21 00:00 Received: 09/29/21 11:57 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**209**	mg/L	1.0	0.12	1	10/06/21 14:05	10/06/21 19:44	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	10/07/21 09:38	10/08/21 18:53	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	10/07/21 09:38	10/08/21 18:53	7440-38-2	
Barium	**0.034**	mg/L	0.0050	0.00067	1	10/07/21 09:38	10/08/21 18:53	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	10/07/21 09:38	10/08/21 18:53	7440-41-7	
Boron	**1.6**	mg/L	0.040	0.0086	1	10/07/21 09:38	10/08/21 18:53	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	10/07/21 09:38	10/08/21 18:53	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	10/07/21 09:38	10/08/21 18:53	7440-47-3	
Cobalt	**0.0010J**	mg/L	0.0050	0.00039	1	10/07/21 09:38	10/08/21 18:53	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	10/07/21 09:38	10/08/21 18:53	7439-92-1	
Lithium	**0.023J**	mg/L	0.030	0.00073	1	10/07/21 09:38	10/08/21 18:53	7439-93-2	
Molybdenum	**0.00096J**	mg/L	0.010	0.00074	1	10/07/21 09:38	10/08/21 18:53	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	10/07/21 09:38	10/08/21 18:53	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	10/07/21 09:38	10/08/21 18:53	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	10/11/21 15:05	10/12/21 10:28	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**1140**	mg/L	20.0	20.0	1		10/04/21 15:36		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**3.5**	mg/L	1.0	0.60	1		10/01/21 00:02	16887-00-6	
Fluoride	**0.11**	mg/L	0.10	0.050	1		10/01/21 00:02	16984-48-8	
Sulfate	**609**	mg/L	14.0	7.0	14		10/01/21 09:45	14808-79-8	

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD
Pace Project No.: 92563226

Sample: BRGWC-52I **Lab ID: 92563226013** Collected: 09/28/21 16:16 Received: 09/29/21 11:57 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		09/29/21 13:18		
pH	**6.81**	Std. Units			1		09/29/21 13:18		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**5.7**	mg/L	0.040	0.025	1	10/06/21 14:05	10/06/21 19:49	7439-89-6	
Manganese	**0.76**	mg/L	0.040	0.0043	1	10/06/21 14:05	10/06/21 19:49	7439-96-5	
Potassium	**4.8**	mg/L	0.20	0.15	1	10/06/21 14:05	10/06/21 19:49	7440-09-7	
Sodium	**18.2**	mg/L	1.0	0.58	1	10/06/21 14:05	10/06/21 19:49	7440-23-5	
Calcium	**39.5**	mg/L	1.0	0.12	1	10/06/21 14:05	10/06/21 19:49	7440-70-2	
Magnesium	**17.6**	mg/L	0.050	0.012	1	10/06/21 14:05	10/06/21 19:49	7439-95-4	
Hardness, Total(SM 2340B)	**171**	mg/L	2.7	0.35	1	10/06/21 14:05	10/06/21 19:49		
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	10/07/21 09:38	10/08/21 18:58	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	10/07/21 09:38	10/08/21 18:58	7440-38-2	
Barium	**0.013**	mg/L	0.0050	0.00067	1	10/07/21 09:38	10/08/21 18:58	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	10/07/21 09:38	10/08/21 18:58	7440-41-7	
Boron	**1.4**	mg/L	0.040	0.0086	1	10/07/21 09:38	10/08/21 18:58	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	10/07/21 09:38	10/08/21 18:58	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	10/07/21 09:38	10/08/21 18:58	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	10/07/21 09:38	10/08/21 18:58	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	10/07/21 09:38	10/08/21 18:58	7439-92-1	
Lithium	**0.0035J**	mg/L	0.030	0.00073	1	10/07/21 09:38	10/08/21 18:58	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	10/07/21 09:38	10/08/21 18:58	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	10/07/21 09:38	10/08/21 18:58	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	10/07/21 09:38	10/08/21 18:58	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	10/11/21 15:05	10/12/21 10:31	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**336**	mg/L	10.0	10.0	1		10/04/21 15:36		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**75.4**	mg/L	5.0	5.0	1		10/11/21 23:30		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		10/11/21 23:30		
Alkalinity, Total as CaCO3	**75.4**	mg/L	5.0	5.0	1		10/11/21 23:30		

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD
Pace Project No.: 92563226

Sample: BRGWC-52I **Lab ID: 92563226013** Collected: 09/28/21 16:16 Received: 09/29/21 11:57 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**5.5**	mg/L	1.0	0.60	1		10/01/21 00:18	16887-00-6	
Fluoride	**0.12**	mg/L	0.10	0.050	1		10/01/21 00:18	16984-48-8	
Sulfate	**132**	mg/L	3.0	1.5	3		10/01/21 10:01	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2 Rev 2.0 1993 Pace Analytical Services - Asheville								
Nitrogen, NO2 plus NO3	ND	mg/L	0.040	0.017	1		10/11/21 12:36		

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD
Pace Project No.: 92563226

Sample: FB-3 **Lab ID: 92563226014** Collected: 09/28/21 16:15 Received: 09/29/21 11:57 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	10/06/21 14:05	10/06/21 20:08	7439-89-6	
Manganese	ND	mg/L	0.040	0.0043	1	10/06/21 14:05	10/06/21 20:08	7439-96-5	
Potassium	ND	mg/L	0.20	0.15	1	10/06/21 14:05	10/06/21 20:08	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	10/06/21 14:05	10/06/21 20:08	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	10/06/21 14:05	10/06/21 20:08	7440-70-2	
Magnesium	ND	mg/L	0.050	0.012	1	10/06/21 14:05	10/06/21 20:08	7439-95-4	
Hardness, Total(SM 2340B)	ND	mg/L	2.7	0.35	1	10/06/21 14:05	10/06/21 20:08		
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	10/07/21 09:38	10/08/21 19:10	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	10/07/21 09:38	10/08/21 19:10	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	10/07/21 09:38	10/08/21 19:10	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	10/07/21 09:38	10/08/21 19:10	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	10/07/21 09:38	10/08/21 19:10	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	10/07/21 09:38	10/08/21 19:10	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	10/07/21 09:38	10/08/21 19:10	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	10/07/21 09:38	10/08/21 19:10	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	10/07/21 09:38	10/08/21 19:10	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	10/07/21 09:38	10/08/21 19:10	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	10/07/21 09:38	10/08/21 19:10	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	10/07/21 09:38	10/08/21 19:10	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	10/07/21 09:38	10/08/21 19:10	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	10/11/21 15:05	10/12/21 10:33	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		10/04/21 15:36		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		10/11/21 23:38		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		10/11/21 23:38		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		10/11/21 23:38		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		10/01/21 00:34	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		10/01/21 00:34	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		10/01/21 00:34	14808-79-8	

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ANALYTICAL RESULTS

Project: BRANCH AP-BCD
Pace Project No.: 92563226

Sample: EB-3 **Lab ID: 92563226015** Collected: 09/28/21 16:40 Received: 09/29/21 11:57 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	10/06/21 14:05	10/06/21 20:13	7439-89-6	
Manganese	ND	mg/L	0.040	0.0043	1	10/06/21 14:05	10/06/21 20:13	7439-96-5	
Potassium	ND	mg/L	0.20	0.15	1	10/06/21 14:05	10/06/21 20:13	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	10/06/21 14:05	10/06/21 20:13	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	10/06/21 14:05	10/06/21 20:13	7440-70-2	
Magnesium	ND	mg/L	0.050	0.012	1	10/06/21 14:05	10/06/21 20:13	7439-95-4	
Hardness, Total(SM 2340B)	ND	mg/L	2.7	0.35	1	10/06/21 14:05	10/06/21 20:13		
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	10/07/21 09:38	10/08/21 19:27	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	10/07/21 09:38	10/08/21 19:27	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	10/07/21 09:38	10/08/21 19:27	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	10/07/21 09:38	10/08/21 19:27	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	10/07/21 09:38	10/08/21 19:27	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	10/07/21 09:38	10/08/21 19:27	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	10/07/21 09:38	10/08/21 19:27	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	10/07/21 09:38	10/08/21 19:27	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	10/07/21 09:38	10/08/21 19:27	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	10/07/21 09:38	10/08/21 19:27	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	10/07/21 09:38	10/08/21 19:27	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	10/07/21 09:38	10/08/21 19:27	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	10/07/21 09:38	10/08/21 19:27	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	10/11/21 15:05	10/12/21 10:36	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		10/04/21 15:36		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		10/11/21 23:41		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		10/11/21 23:41		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		10/11/21 23:41		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		10/01/21 01:53	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		10/01/21 01:53	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		10/01/21 01:53	14808-79-8	

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QUALITY CONTROL DATA

Project: BRANCH AP-BCD
Pace Project No.: 92563226

QC Batch: 651173
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92563226001, 92563226002, 92563226003, 92563226004, 92563226005, 92563226006, 92563226007, 92563226008, 92563226009, 92563226010, 92563226011, 92563226012, 92563226013, 92563226014, 92563226015

METHOD BLANK: 3415002 Matrix: Water
Associated Lab Samples: 92563226001, 92563226002, 92563226003, 92563226004, 92563226005, 92563226006, 92563226007, 92563226008, 92563226009, 92563226010, 92563226011, 92563226012, 92563226013, 92563226014, 92563226015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	10/06/21 18:17	
Hardness, Total(SM 2340B)	mg/L	ND	2.7	0.35	10/06/21 18:17	
Iron	mg/L	ND	0.040	0.025	10/06/21 18:17	
Magnesium	mg/L	ND	0.050	0.012	10/06/21 18:17	
Manganese	mg/L	ND	0.040	0.0043	10/06/21 18:17	
Potassium	mg/L	ND	0.20	0.15	10/06/21 18:17	
Sodium	mg/L	ND	1.0	0.58	10/06/21 18:17	

LABORATORY CONTROL SAMPLE: 3415003

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	0.99J	99	80-120	
Hardness, Total(SM 2340B)	mg/L	6.6	6.7	102	80-120	
Iron	mg/L	1	1.0	104	80-120	
Magnesium	mg/L	1	1.0	103	80-120	
Manganese	mg/L	1	1.0	102	80-120	
Potassium	mg/L	1	0.92	92	80-120	
Sodium	mg/L	1	0.99J	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3415004 3415005

Parameter	Units	92563226001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	32.0	1	1	34.1	34.7	206	267	75-125	2	20	M1
Hardness, Total(SM 2340B)	mg/L	144	6.6	6.6	154	157	165	211	75-125	2	20	
Iron	mg/L	0.66	1	1	1.7	1.7	107	108	75-125	1	20	
Magnesium	mg/L	15.4	1	1	16.8	17.2	141	177	75-125	2	20	M1
Manganese	mg/L	0.30	1	1	1.3	1.3	100	102	75-125	1	20	
Potassium	mg/L	3.4	1	1	4.4	4.5	106	117	75-125	2	20	
Sodium	mg/L	13.9	1	1	15.3	15.7	142	176	75-125	2	20	M1

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: BRANCH AP-BCD
Pace Project No.: 92563226

QC Batch: 651350
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92563226001, 92563226002, 92563226003, 92563226004, 92563226005, 92563226006, 92563226007, 92563226008, 92563226009, 92563226010, 92563226011, 92563226012, 92563226013, 92563226014, 92563226015

METHOD BLANK: 3415849 Matrix: Water
Associated Lab Samples: 92563226001, 92563226002, 92563226003, 92563226004, 92563226005, 92563226006, 92563226007, 92563226008, 92563226009, 92563226010, 92563226011, 92563226012, 92563226013, 92563226014, 92563226015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	10/08/21 17:05	
Arsenic	mg/L	ND	0.0050	0.0011	10/08/21 17:05	
Barium	mg/L	ND	0.0050	0.00067	10/08/21 17:05	
Beryllium	mg/L	ND	0.00050	0.000054	10/08/21 17:05	
Boron	mg/L	ND	0.040	0.0086	10/08/21 17:05	
Cadmium	mg/L	ND	0.00050	0.00011	10/08/21 17:05	
Chromium	mg/L	ND	0.0050	0.0011	10/08/21 17:05	
Cobalt	mg/L	ND	0.0050	0.00039	10/08/21 17:05	
Lead	mg/L	ND	0.0010	0.00089	10/08/21 17:05	
Lithium	mg/L	ND	0.030	0.00073	10/08/21 17:05	
Molybdenum	mg/L	ND	0.010	0.00074	10/08/21 17:05	
Selenium	mg/L	ND	0.0050	0.0014	10/08/21 17:05	
Thallium	mg/L	ND	0.0010	0.00018	10/08/21 17:05	

LABORATORY CONTROL SAMPLE: 3415850

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	103	80-120	
Arsenic	mg/L	0.1	0.096	96	80-120	
Barium	mg/L	0.1	0.097	97	80-120	
Beryllium	mg/L	0.1	0.093	93	80-120	
Boron	mg/L	1	0.97	97	80-120	
Cadmium	mg/L	0.1	0.10	102	80-120	
Chromium	mg/L	0.1	0.092	92	80-120	
Cobalt	mg/L	0.1	0.090	90	80-120	
Lead	mg/L	0.1	0.093	93	80-120	
Lithium	mg/L	0.1	0.096	96	80-120	
Molybdenum	mg/L	0.1	0.098	98	80-120	
Selenium	mg/L	0.1	0.096	96	80-120	
Thallium	mg/L	0.1	0.093	93	80-120	

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QUALITY CONTROL DATA

Project: BRANCH AP-BCD
Pace Project No.: 92563226

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3415851 3415852

Parameter	Units	92563226002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.11	0.11	107	110	75-125	2	20	
Arsenic	mg/L	0.0020J	0.1	0.1	0.10	0.10	103	102	75-125	0	20	
Barium	mg/L	0.031	0.1	0.1	0.13	0.13	97	101	75-125	3	20	
Beryllium	mg/L	ND	0.1	0.1	0.093	0.094	93	94	75-125	1	20	
Boron	mg/L	0.47	1	1	1.4	1.4	89	92	75-125	2	20	
Cadmium	mg/L	ND	0.1	0.1	0.098	0.10	98	101	75-125	3	20	
Chromium	mg/L	ND	0.1	0.1	0.099	0.099	98	99	75-125	0	20	
Cobalt	mg/L	ND	0.1	0.1	0.093	0.094	93	94	75-125	1	20	
Lead	mg/L	ND	0.1	0.1	0.093	0.094	93	94	75-125	1	20	
Lithium	mg/L	0.042	0.1	0.1	0.13	0.14	92	95	75-125	2	20	
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	100	104	75-125	4	20	
Selenium	mg/L	ND	0.1	0.1	0.11	0.11	107	105	75-125	2	20	
Thallium	mg/L	ND	0.1	0.1	0.094	0.095	94	94	75-125	1	20	

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QUALITY CONTROL DATA

Project: BRANCH AP-BCD
Pace Project No.: 92563226

QC Batch: 652043
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92563226001, 92563226002, 92563226003, 92563226004, 92563226005, 92563226006, 92563226007, 92563226008, 92563226009, 92563226010, 92563226011, 92563226012, 92563226013, 92563226014, 92563226015

METHOD BLANK: 3419327 Matrix: Water
Associated Lab Samples: 92563226001, 92563226002, 92563226003, 92563226004, 92563226005, 92563226006, 92563226007, 92563226008, 92563226009, 92563226010, 92563226011, 92563226012, 92563226013, 92563226014, 92563226015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000078	10/12/21 09:39	

LABORATORY CONTROL SAMPLE: 3419328

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0024	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3419329 3419330

Parameter	Units	92563226003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0022	0.0021	85	80	75-125	5	20	

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QUALITY CONTROL DATA

Project: BRANCH AP-BCD
Pace Project No.: 92563226

QC Batch: 650109
QC Batch Method: SM 2540C-2011
Analysis Method: SM 2540C-2011
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92563226001, 92563226002, 92563226003, 92563226004

METHOD BLANK: 3409662 Matrix: Water
Associated Lab Samples: 92563226001, 92563226002, 92563226003, 92563226004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	09/30/21 18:57	

LABORATORY CONTROL SAMPLE: 3409663

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	396	99	90-111	

SAMPLE DUPLICATE: 3409664

Parameter	Units	92563226001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	277	284	2	10	

SAMPLE DUPLICATE: 3409665

Parameter	Units	92563599002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	78.0	85.0	9	10	

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QUALITY CONTROL DATA

Project: BRANCH AP-BCD
Pace Project No.: 92563226

QC Batch: 650392 | Analysis Method: SM 2540C-2011
QC Batch Method: SM 2540C-2011 | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92563226005, 92563226006, 92563226007, 92563226008, 92563226009, 92563226010, 92563226011

METHOD BLANK: 3411236 Matrix: Water
Associated Lab Samples: 92563226005, 92563226006, 92563226007, 92563226008, 92563226009, 92563226010, 92563226011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	10/03/21 11:38	

LABORATORY CONTROL SAMPLE: 3411237

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	387	97	90-111	

SAMPLE DUPLICATE: 3411239

Parameter	Units	92563761007 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	181	181	0	10	

SAMPLE DUPLICATE: 3412138

Parameter	Units	92563761002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1560	1580	2	10	

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QUALITY CONTROL DATA

Project: BRANCH AP-BCD
Pace Project No.: 92563226

QC Batch: 650655
QC Batch Method: SM 2540C-2011
Analysis Method: SM 2540C-2011
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92563226012, 92563226013, 92563226014, 92563226015

METHOD BLANK: 3412467 Matrix: Water
Associated Lab Samples: 92563226012, 92563226013, 92563226014, 92563226015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	10/04/21 15:35	

LABORATORY CONTROL SAMPLE: 3412468

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	406	102	90-111	

SAMPLE DUPLICATE: 3412470

Parameter	Units	92564073001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	6620	5680	15	10	D6

SAMPLE DUPLICATE: 3412668

Parameter	Units	92563226012 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1140	1130	1	10	

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QUALITY CONTROL DATA

Project: BRANCH AP-BCD
Pace Project No.: 92563226

QC Batch: 651424
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92563226003, 92563226004

METHOD BLANK: 3416272 Matrix: Water
Associated Lab Samples: 92563226003, 92563226004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	10/07/21 17:20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	10/07/21 17:20	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	10/07/21 17:20	

LABORATORY CONTROL SAMPLE: 3416273

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.9	104	80-120	

LABORATORY CONTROL SAMPLE: 3416274

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.2	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3416275 3416276

Parameter	Units	92563915005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	ND	50	50	51.0	59.9	93	110	80-120	16	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3416277 3416278

Parameter	Units	92563915006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	25.0	50	50	72.9	73.7	96	97	80-120	1	25	

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QUALITY CONTROL DATA

Project: BRANCH AP-BCD
Pace Project No.: 92563226

QC Batch: 651992
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92563226013, 92563226014, 92563226015

METHOD BLANK: 3419013 Matrix: Water
Associated Lab Samples: 92563226013, 92563226014, 92563226015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	10/11/21 20:50	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	10/11/21 20:50	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	10/11/21 20:50	

LABORATORY CONTROL SAMPLE: 3419014

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	52.5	105	80-120	

LABORATORY CONTROL SAMPLE: 3419015

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	54.6	109	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3419016 3419017

Parameter	Units	92564448001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	82.1	50	50	114	113	65	61	80-120	2	25	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3419018 3419019

Parameter	Units	92564448007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	66.5	50	50	119	121	104	108	80-120	2	25	

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QUALITY CONTROL DATA

Project: BRANCH AP-BCD
Pace Project No.: 92563226

QC Batch: 649415
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92563226001, 92563226002

METHOD BLANK: 3406128 Matrix: Water
Associated Lab Samples: 92563226001, 92563226002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/27/21 06:19	
Fluoride	mg/L	ND	0.10	0.050	09/27/21 06:19	
Sulfate	mg/L	ND	1.0	0.50	09/27/21 06:19	

LABORATORY CONTROL SAMPLE: 3406129

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.0	100	90-110	
Fluoride	mg/L	2.5	2.5	102	90-110	
Sulfate	mg/L	50	51.5	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3406130 3406131

Parameter	Units	92562974010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	6.1	50	50	59.7	60.7	107	109	90-110	2	10	
Fluoride	mg/L	0.071J	2.5	2.5	2.9	2.9	114	115	90-110	1	10	M1
Sulfate	mg/L	258	50	50	303	305	91	94	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3406132 3406133

Parameter	Units	92563313008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	103	50	50	150	150	94	94	90-110	0	10	
Fluoride	mg/L	ND	2.5	2.5	3.9	3.7	156	146	90-110	6	10	M1
Sulfate	mg/L	433	50	50	482	481	98	96	90-110	0	10	

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QUALITY CONTROL DATA

Project: BRANCH AP-BCD
Pace Project No.: 92563226

QC Batch: 650118
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92563226003, 92563226004

METHOD BLANK: 3409685 Matrix: Water
Associated Lab Samples: 92563226003, 92563226004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/30/21 12:38	
Fluoride	mg/L	ND	0.10	0.050	09/30/21 12:38	
Sulfate	mg/L	ND	1.0	0.50	09/30/21 12:38	

LABORATORY CONTROL SAMPLE: 3409686

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	46.5	93	90-110	
Fluoride	mg/L	2.5	2.4	96	90-110	
Sulfate	mg/L	50	49.6	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3409687 3409688

Parameter	Units	92563859001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	1030	50	50	1080	1090	110	129	90-110	1	10	M1
Fluoride	mg/L	ND	2.5	2.5	1.5	1.6	62	63	90-110	2	10	M1
Sulfate	mg/L	1290	50	50	1350	1370	124	150	90-110	1	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3409689 3409690

Parameter	Units	92563226004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	16.2	50	50	63.6	64.7	95	97	90-110	2	10	
Fluoride	mg/L	0.46	2.5	2.5	3.1	3.1	104	106	90-110	2	10	
Sulfate	mg/L	1170	50	50	1200	1200	65	48	90-110	1	10	M1

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QUALITY CONTROL DATA

Project: BRANCH AP-BCD
Pace Project No.: 92563226

QC Batch: 650124
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92563226005, 92563226006, 92563226007, 92563226008, 92563226009, 92563226010, 92563226011, 92563226012, 92563226013, 92563226014, 92563226015

METHOD BLANK: 3409716 Matrix: Water
Associated Lab Samples: 92563226005, 92563226006, 92563226007, 92563226008, 92563226009, 92563226010, 92563226011, 92563226012, 92563226013, 92563226014, 92563226015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/30/21 20:19	
Fluoride	mg/L	ND	0.10	0.050	09/30/21 20:19	
Sulfate	mg/L	ND	1.0	0.50	09/30/21 20:19	

LABORATORY CONTROL SAMPLE: 3409717

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	46.9	94	90-110	
Fluoride	mg/L	2.5	2.4	97	90-110	
Sulfate	mg/L	50	51.9	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3409718 3409719

Parameter	Units	92563761009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	27.2	50	50	74.3	75.0	94	95	90-110	1	10	
Fluoride	mg/L	1.6	2.5	2.5	4.3	4.4	107	110	90-110	2	10	
Sulfate	mg/L	1670	50	50	1680	1680	26	13	90-110	0	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3409720 3409721

Parameter	Units	92563226014 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	ND	50	50	47.4	47.9	95	96	90-110	1	10	
Fluoride	mg/L	ND	2.5	2.5	2.5	2.5	98	100	90-110	1	10	
Sulfate	mg/L	ND	50	50	50.4	51.0	101	102	90-110	1	10	

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QUALITY CONTROL DATA

Project: BRANCH AP-BCD
Pace Project No.: 92563226

QC Batch: 651968
QC Batch Method: EPA 353.2 Rev 2.0 1993
Analysis Method: EPA 353.2 Rev 2.0 1993
Analysis Description: 353.2 Nitrate + Nitrite, preserved
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92563226003

METHOD BLANK: 3418960 Matrix: Water
Associated Lab Samples: 92563226003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	ND	0.040	0.017	10/11/21 11:02	

LABORATORY CONTROL SAMPLE: 3418961

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2.5	2.5	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3418962 3418963

Parameter	Units	92564311001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	0.058	2.5	2.5	2.4	2.4	95	95	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3418964 3418965

Parameter	Units	92564312001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	0.052	2.5	2.5	1.8	1.8	69	68	90-110	0	10	M1

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Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: BRANCH AP-BCD
Pace Project No.: 92563226

QC Batch: 651970
QC Batch Method: EPA 353.2 Rev 2.0 1993
Analysis Method: EPA 353.2 Rev 2.0 1993
Analysis Description: 353.2 Nitrate + Nitrite, preserved
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92563226013

METHOD BLANK: 3418972 Matrix: Water
Associated Lab Samples: 92563226013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	ND	0.040	0.017	10/11/21 12:11	

LABORATORY CONTROL SAMPLE: 3418973

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2.5	2.5	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3418974 3418975

Parameter	Units	92562907001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	43.3	2.5	2.5	46.1	46.0	112	106	90-110	0	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3418976 3418977

Parameter	Units	92562911001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	ND	2.5	2.5	2.3	2.3	92	93	90-110	1	10	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALIFIERS

Project: BRANCH AP-BCD
Pace Project No.: 92563226

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

D6	The precision between the sample and sample duplicate exceeded laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRANCH AP-BCD
Pace Project No.: 92563226

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92563226001	**BRGWC-45**				
92563226002	**BRGWC-47**				
92563226003	**BRGWC-50**				
92563226005	**BRGWC-25I**				
92563226006	**BRGWC-27I**				
92563226007	**BRGWC-29I**				
92563226008	**BRGWC-30I**				
92563226009	**BRGWC-32S**				
92563226013	**BRGWC-52I**				
92563226001	**BRGWC-45**	EPA 3010A	651173	EPA 6010D	651248
92563226002	**BRGWC-47**	EPA 3010A	651173	EPA 6010D	651248
92563226003	**BRGWC-50**	EPA 3010A	651173	EPA 6010D	651248
92563226004	**DUP-2**	EPA 3010A	651173	EPA 6010D	651248
92563226005	**BRGWC-25I**	EPA 3010A	651173	EPA 6010D	651248
92563226006	**BRGWC-27I**	EPA 3010A	651173	EPA 6010D	651248
92563226007	**BRGWC-29I**	EPA 3010A	651173	EPA 6010D	651248
92563226008	**BRGWC-30I**	EPA 3010A	651173	EPA 6010D	651248
92563226009	**BRGWC-32S**	EPA 3010A	651173	EPA 6010D	651248
92563226010	**EB-2**	EPA 3010A	651173	EPA 6010D	651248
92563226011	**FB-2**	EPA 3010A	651173	EPA 6010D	651248
92563226012	**DUP-3**	EPA 3010A	651173	EPA 6010D	651248
92563226013	**BRGWC-52I**	EPA 3010A	651173	EPA 6010D	651248
92563226014	**FB-3**	EPA 3010A	651173	EPA 6010D	651248
92563226015	**EB-3**	EPA 3010A	651173	EPA 6010D	651248
92563226001	**BRGWC-45**	EPA 3005A	651350	EPA 6020B	651455
92563226002	**BRGWC-47**	EPA 3005A	651350	EPA 6020B	651455
92563226003	**BRGWC-50**	EPA 3005A	651350	EPA 6020B	651455
92563226004	**DUP-2**	EPA 3005A	651350	EPA 6020B	651455
92563226005	**BRGWC-25I**	EPA 3005A	651350	EPA 6020B	651455
92563226006	**BRGWC-27I**	EPA 3005A	651350	EPA 6020B	651455
92563226007	**BRGWC-29I**	EPA 3005A	651350	EPA 6020B	651455
92563226008	**BRGWC-30I**	EPA 3005A	651350	EPA 6020B	651455
92563226009	**BRGWC-32S**	EPA 3005A	651350	EPA 6020B	651455
92563226010	**EB-2**	EPA 3005A	651350	EPA 6020B	651455
92563226011	**FB-2**	EPA 3005A	651350	EPA 6020B	651455
92563226012	**DUP-3**	EPA 3005A	651350	EPA 6020B	651455
92563226013	**BRGWC-52I**	EPA 3005A	651350	EPA 6020B	651455
92563226014	**FB-3**	EPA 3005A	651350	EPA 6020B	651455
92563226015	**EB-3**	EPA 3005A	651350	EPA 6020B	651455
92563226001	**BRGWC-45**	EPA 7470A	652043	EPA 7470A	652216
92563226002	**BRGWC-47**	EPA 7470A	652043	EPA 7470A	652216
92563226003	**BRGWC-50**	EPA 7470A	652043	EPA 7470A	652216
92563226004	**DUP-2**	EPA 7470A	652043	EPA 7470A	652216
92563226005	**BRGWC-25I**	EPA 7470A	652043	EPA 7470A	652216
92563226006	**BRGWC-27I**	EPA 7470A	652043	EPA 7470A	652216
92563226007	**BRGWC-29I**	EPA 7470A	652043	EPA 7470A	652216
92563226008	**BRGWC-30I**	EPA 7470A	652043	EPA 7470A	652216

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(770)734-4200

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRANCH AP-BCD
Pace Project No.: 92563226

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92563226009	**BRGWC-32S**	EPA 7470A	652043	EPA 7470A	652216
92563226010	**EB-2**	EPA 7470A	652043	EPA 7470A	652216
92563226011	**FB-2**	EPA 7470A	652043	EPA 7470A	652216
92563226012	**DUP-3**	EPA 7470A	652043	EPA 7470A	652216
92563226013	**BRGWC-52I**	EPA 7470A	652043	EPA 7470A	652216
92563226014	**FB-3**	EPA 7470A	652043	EPA 7470A	652216
92563226015	**EB-3**	EPA 7470A	652043	EPA 7470A	652216
92563226001	**BRGWC-45**	SM 2540C-2011	650109		
92563226002	**BRGWC-47**	SM 2540C-2011	650109		
92563226003	**BRGWC-50**	SM 2540C-2011	650109		
92563226004	**DUP-2**	SM 2540C-2011	650109		
92563226005	**BRGWC-25I**	SM 2540C-2011	650392		
92563226006	**BRGWC-27I**	SM 2540C-2011	650392		
92563226007	**BRGWC-29I**	SM 2540C-2011	650392		
92563226008	**BRGWC-30I**	SM 2540C-2011	650392		
92563226009	**BRGWC-32S**	SM 2540C-2011	650392		
92563226010	**EB-2**	SM 2540C-2011	650392		
92563226011	**FB-2**	SM 2540C-2011	650392		
92563226012	**DUP-3**	SM 2540C-2011	650655		
92563226013	**BRGWC-52I**	SM 2540C-2011	650655		
92563226014	**FB-3**	SM 2540C-2011	650655		
92563226015	**EB-3**	SM 2540C-2011	650655		
92563226003	**BRGWC-50**	SM 2320B-2011	651424		
92563226004	**DUP-2**	SM 2320B-2011	651424		
92563226013	**BRGWC-52I**	SM 2320B-2011	651992		
92563226014	**FB-3**	SM 2320B-2011	651992		
92563226015	**EB-3**	SM 2320B-2011	651992		
92563226001	**BRGWC-45**	EPA 300.0 Rev 2.1 1993	649415		
92563226002	**BRGWC-47**	EPA 300.0 Rev 2.1 1993	649415		
92563226003	**BRGWC-50**	EPA 300.0 Rev 2.1 1993	650118		
92563226004	**DUP-2**	EPA 300.0 Rev 2.1 1993	650118		
92563226005	**BRGWC-25I**	EPA 300.0 Rev 2.1 1993	650124		
92563226006	**BRGWC-27I**	EPA 300.0 Rev 2.1 1993	650124		
92563226007	**BRGWC-29I**	EPA 300.0 Rev 2.1 1993	650124		
92563226008	**BRGWC-30I**	EPA 300.0 Rev 2.1 1993	650124		
92563226009	**BRGWC-32S**	EPA 300.0 Rev 2.1 1993	650124		
92563226010	**EB-2**	EPA 300.0 Rev 2.1 1993	650124		
92563226011	**FB-2**	EPA 300.0 Rev 2.1 1993	650124		
92563226012	**DUP-3**	EPA 300.0 Rev 2.1 1993	650124		
92563226013	**BRGWC-52I**	EPA 300.0 Rev 2.1 1993	650124		
92563226014	**FB-3**	EPA 300.0 Rev 2.1 1993	650124		
92563226015	**EB-3**	EPA 300.0 Rev 2.1 1993	650124		
92563226003	**BRGWC-50**	EPA 353.2 Rev 2.0 1993	651968		
92563226013	**BRGWC-52I**	EPA 353.2 Rev 2.0 1993	651970		

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110 Technology Parkway
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(770)734-4200

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRANCH AP-BCD
Pace Project No.: 92563226

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch

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Pace Analytical	Document Name: Sample Condition Upon Receipt(SCUR)	Document Revised: October 28, 2020 Page 1 of 2
	Document No.: F-CAR-CS-033-Rev.07	Issuing Authority: Pace Carolinas Quality Office

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #: WO# : 92563226

92563226

Courier: ☐ Commercial ☐ Fed Ex ☐ Pace ☑ UPS ☐ USPS ☐ Other: ☐ Client

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No

Date/Initials Person Examining Contents: 9/23/21 KAW

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☑ Other

Biological Tissue Frozen? ☐ Yes ☑ No ☐ N/A

Thermometer: ☑ IR Gun ID: THR230 Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 1.2 Correction Factor: Add/Subtract (°C) +0.1

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 1.3

USDA Regulated Soil (☑ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☑ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☑ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4. 10 Day
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: W				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ **Date:** _____

Project Manager SRF Review: _____ **Date:** _____

***Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.**

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

****Bottom half of box is to list number of bottles**

Project # **WO# : 92563226**

PM: NMG Due Date: 10/07/21

CLIENT: GA-GA Power

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BP1N	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		1	1			1																			2				
2		1	1			1																			2				
3																													
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Georgia Power - Coal Combustion Residuals	Report To:	Joju Abraham	Attention:	scsinvoices@southernco.com
Address:	1100 Milledgeville Rd	Copy To:	Golder	Company Name:	
	Milledgeville, GA 31061			Address:	
Email:	jabraham@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	(404) 506-7239 Fax	Project Name:	Plant Branch AP-BCD	Pace Project Manager:	Kevin Herring
Requested Due Date:	10 Day TAT	Project #:	166625421	Pace Profile #:	

Regulatory Agency

State / Location: GA

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Total Metals	Cl, F, SO4, TDS	Radium 226/228	Residual Chlorine (Y/N)	
	MATRIX: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Other OT, Tissue TS							Requested Analysis Filtered (Y/N)								Y/N	N	N	N		
1	BRGWC-45	WT	G	9/23/2021	12:15		5	2		3							X	X	X		pH = 5.95
2	BRGWC-47	WT	G	9/23/2021	13:35		5	2		3							X	X	X		pH = 5.74
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	[signature]	9-23	17:10	[signature]	9/23/21	1710	

Jude Wagnespack DATE Signed: 9-23

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Pace Analytical	Document Name: **Sample Condition Upon Receipt(SCUR)**	Document Revised: October 28, 2020 Page 1 of 2
	Document No.: **F-CAR-CS-033-Rev.07**	Issuing Authority: Pace Carolinas Quality Office

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Georgia Power

Project #:

Courier: ☑ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Pace ☐ Other:____

Custody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☐ No

Date/Initials Person Examining Contents: MT 9/28/21

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☑ Other

Biological Tissue Frozen? ☐ Yes ☑ No ☐ N/A

Thermometer: ☐ IR Gun ID: 230

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 3.4 **Correction Factor:** Add/Subtract (°C) ±0.1

Temp should be above freezing to 6°C

☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 3.5

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☑ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☑ No	☐ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: WT				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ **Date:** _____

Project Manager SRF Review: _____ **Date:** _____

***Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.**

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

****Bottom half of box is to list number of bottles**

Project #

Item#	**BP4U**-125 mL Plastic Unpreserved (N/A) (Cl-)	**BP3U**-250 mL Plastic Unpreserved (N/A)	**BP2U**-500 mL Plastic Unpreserved (N/A)	**BP1U**-1 liter Plastic Unpreserved (N/A)	**BP4S**-125 mL Plastic H2SO4 (pH < 2) (Cl-)	**BP3N**-250 mL plastic HNO3 (pH < 2)	**BP4Z**-125 mL Plastic ZN Acetate & NaOH (>9)	**BP4C**-125 mL Plastic NaOH (pH > 12) (Cl-)	**WGFU**-Wide-mouthed Glass jar Unpreserved	**AG1U**-1 liter Amber Unpreserved (N/A) (Cl-)	**AG1H**-1 liter Amber HCl (pH < 2)	**AG3U**-250 mL Amber Unpreserved (N/A) (Cl-)	**AG1S**-1 liter Amber H2SO4 (pH < 2)	**AG3S**-250 mL Amber H2SO4 (pH < 2)	**AG3A(DG3A)**-250 mL Amber NH4Cl (N/A)(Cl-)	**DG9H**-40 mL VOA HCl (N/A)	**VG9T**-40 mL VOA Na2S2O3 (N/A)	**VG9U**-40 mL VOA Unp (N/A)	**DG9P**-40 mL VOA H3PO4 (N/A)	**VOAK (6 vials per kit)**-5035 kit (N/A)	**V/GK (3 vials per kit)**-VPH/Gas kit (N/A)	**SP5T**-125 mL Sterile Plastic (N/A – lab)	**SP2T**-250 mL Sterile Plastic (N/A – lab)	BP1N	**BP3A**-250 mL Plastic (NH2)2SO4 (9.3-9.7)	**AG0U**-100 mL Amber Unpreserved vials (N/A)	**VSGU**-20 mL Scintillation vials (N/A)	**DG9U**-40 mL Amber Unpreserved vials (N/A)
1		1	1		1	1																			2			
2		1	1			1																			2			
3																												
4																												
5																												
6																												
7																												
8																												
9																												
10																												
11																												
12																												

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 Of 1

Section A — Required Client Information:

Company:	Georgia Power - Coal Combustion Residuals
Address:	1100 Milledgeville Rd
	Milledgeville, GA 31061
Email:	jabraham@southernco.com
Phone: (404) 506-7239	Fax:
Requested Due Date:	10 Day TAT

Section B — Required Project Information:

Report To:	Jide Abraham
Copy To:	Golder
Purchase Order #:	
Project Name:	Plant Branch AP-BCD
Project #:	166625421

Section C — Invoice Information:

Attention:	accountspayable@southernco.com
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	Kevin Herring
Pace Profile #:	

Regulatory Agency

State / Location: GA

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID — One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique.	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III prev Tests Metals	Cl, F, SO4, TDS	Radium 226/228	Cations/Anions (Fe, Mn, K, Na, Mg, Ca, Alkalinity, Total Hardness, Hardness)	NO2/NO3	Residual Chlorine (Y/N)	
	Analyses Test:															Y/N	N	N	N	N	N	N	
1	BRGWC-50	WT	G	9/27/2021	13:05		6	2	1	3						X	X	X	X	X	X		pH = 5.05
2	DUP 2	WT	G	9/27/2021	--		5	2		3						X	X	X	X	X	X		pH = N/A
3																							
4																							
5																							
6																							
7																							
8																							
9																							
10																							
11																							
12																							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	JW .../sampler	9-28-21	08:35	Elaine Cook	9/28	8:35				
				Chad Huff	9/28/21	1018	3.5	Y	N	Y

Jide Wagespack / Golder — DATE Signed: 9-28-21

Pace Analytical	Document Name: Sample Condition Upon Receipt(SCUR)	Document Revised: October 28, 2020 Page 1 of 2
	Document No.: F-CAR-CS-033-Rev.07	Issuing Authority: Pace Carolinas Quality Office

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

Courier: ☐ Commercial ☐ Fed Ex ☐ Pace ☐ UPS ☐ USPS ☐ Other: ☑ Client

Custody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☐ No

Date/Initials Person Examining Contents: 9/29/21 CM

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 083

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 4.3 **Correction Factor:** Add/Subtract (°C) 0.0

Cooler Temp Corrected (°C): 4.3

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: W				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

***Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.**

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

****Bottom half of box is to list number of bottles**

Project #

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BP	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		1	1			1																		2				
2		1	1			1																		2				
3		1	1			1																		4				
4		1	1			1																		4				
5		1	1			1																		2				
6		1	1		1	1																		2				
7		1	1			1																		2				
8		1	1			1																		2				
9		1	1			1																		2				
10		1	1			1																		2				
11		1	1			1																		2				
12																												

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 1 Of 1

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: Georgia Power - Coal Combustion Residuals	Report To: Jojo Abraham	Attention: acsinvoices@southernco.com
Address: 1100 Milledgeville Rd	Copy To: Golder	Company Name:
Milledgeville, GA 31061		Address:
Email: jabraham@southernco.com	Purchase Order #:	Pace Quote:
Phone: (404) 506-7239 Fax	Project Name: Plant Branch AP-BCD	Pace Project Manager: Kevin Herring
Requested Due Date: 10 Day TAT	Project #: 166625421	Pace Profile #:

Regulatory Agency:

State / Location: GA

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample IDs must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Y/N	Requested Analysis Filtered (Y/N): Analysis Test	Residual Chlorine (Y/N)	
	MATRIX: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Other OT, Tissue TS																		
1	BRGWC-25I	WT	G	9/28/2021	11:25		5	2		3						N	X		pH = 5.87
2	BRGWC-27I	WT	G	9/28/2021	14:30		5	2		3						N	X		pH = 5.82
3	BRGWC-29I	WT	G	9/29/2021	12:51		7	2		5						N	X		pH = 4.23
4	BRGWC-30I	WT	G	9/28/2021	16:30		7	2		5						N	X		pH = 6.33
5	BRGWC-32S	WT	G	9/29/2021	16:40		5	2		3						N	X		pH = 5.82
6	BRGWC-52I	WT	G	9/29/2021	16:55		6	2	1	3						N	X		pH = 6.81
7	EB-2	WT	G	9/28/2021	14:50		5	2		3						N	X		pH = N/A
8	FB-2	WT	G	9/28/2021	13:15		5	2		3						N	X		pH = N/A
9	DUP-3	WT	G	9/28/2021	--		5	2		3						N	X		pH = N/A
10	FB-3	WT	G	9/28/2021	16:15		5	2		3						N	X		pH = N/A
11	EB-3	WT	G	9/28/2021	16:40		5	2		3						N	X		pH = N/A
12																			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	[signature]	9-29-21	11:57	[signature] Pace	9/29/21	1157	4.3	Y	N	Y

Joe Wabuespack / [signature] DATE Signed: 9-29-21

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

March 18, 2021

Joju Abraham
Georgia Power-CCR
2480 Maner Road
Atlanta, GA 30339

RE: Project: BRANCH BCD NETWORK
Pace Project No.: 92525375

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between March 03, 2021 and March 05, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte
- Pace Analytical Services - Peachtree Corners, GA

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kevin Herring
kevin.herring@pacelabs.com
1(704)875-9092
HORIZON Database Administrator

Enclosures

cc: Daniela Herrera, Golder
Ben Hodges, Georgia Power
Jimmy Jones, Golder Associates Inc.
Kristen Jurinko
Julie Lehrman, Golder Associates Inc.
Ms. Lauren Petty, Southern Co. Services
Carolyn Powrozek, Golder
Dawn Prell, Golder Associates Inc.
Tim Richards, Golder Associates - Atlanta
Brian Steele, Golder

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

CERTIFICATIONS

Project: BRANCH BCD NETWORK
Pace Project No.: 92525375

Pace Analytical Services Charlotte
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

Pace Analytical Services Asheville
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners
110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
North Carolina Certification #: 381
South Carolina Certification #: 98011001

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Peachtree Corners, GA 30092
(770)734-4200

SAMPLE SUMMARY

Project: BRANCH BCD NETWORK
Pace Project No.: 92525375

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92525375001	**BRGWA-12S**	Water	03/02/21 11:50	03/03/21 10:03
92525375002	**BRGWA-12I**	Water	03/02/21 08:56	03/03/21 10:03
92525375003	**BRGWA-23S**	Water	03/02/21 15:55	03/03/21 10:03
92525375004	**BRGWC-45**	Water	03/02/21 13:40	03/03/21 10:03
92525375005	**BRGWC-47**	Water	03/02/21 15:48	03/03/21 10:03
92525375006	**BRGWC-25I**	Water	03/02/21 17:08	03/03/21 10:03
92525375007	**BRGWC-27I**	Water	03/03/21 14:14	03/04/21 08:15
92525375008	**BRGWC-29I**	Water	03/03/21 16:12	03/04/21 08:15
92525375009	**BRGWC-30I**	Water	03/03/21 13:06	03/04/21 08:15
92525375010	**DUP-1**	Water	03/03/21 13:06	03/04/21 08:15
92525375011	**BRGWC-32S**	Water	03/04/21 11:11	03/05/21 11:30
92525375012	**BRGWC-52I**	Water	03/04/21 12:20	03/05/21 11:30
92525375013	**EB-2**	Water	03/04/21 12:40	03/05/21 11:30
92525375014	**BRGWC-50**	Water	03/04/21 17:07	03/05/21 11:30
92525375015	**EB-1**	Water	03/05/21 07:31	03/05/21 11:30

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110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE ANALYTE COUNT

Project: BRANCH BCD NETWORK
Pace Project No.: 92525375

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92525375001	**BRGWA-12S**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2450C-2011	JRS	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92525375002	**BRGWA-12I**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92525375003	**BRGWA-23S**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92525375004	**BRGWC-45**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92525375005	**BRGWC-47**	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92525375006	**BRGWC-25I**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92525375007	**BRGWC-27I**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
92525375008	**BRGWC-29I**	EPA 6010D	KH	1
		EPA 6020B	CW1	13

REPORT OF LABORATORY ANALYSIS

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(770)734-4200

SAMPLE ANALYTE COUNT

Project: BRANCH BCD NETWORK
Pace Project No.: 92525375

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
92525375009	**BRGWC-30I**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
92525375010	**DUP-1**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
92525375011	**BRGWC-32S**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
92525375012	**BRGWC-52I**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
92525375013	**EB-2**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
92525375014	**BRGWC-50**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
92525375015	**EB-1**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1

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110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE ANALYTE COUNT

Project: BRANCH BCD NETWORK
Pace Project No.: 92525375

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 300.0 Rev 2.1 1993	JLH	3

PASI-A = Pace Analytical Services - Asheville
PASI-C = Pace Analytical Services - Charlotte
PASI-GA = Pace Analytical Services - Peachtree Corners, GA

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Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SUMMARY OF DETECTION

Project: BRANCH BCD NETWORK
Pace Project No.: 92525375

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92525375001	**BRGWA-12S**					
	Performed by	CUSTOMER			03/18/21 07:49	
	pH	5.92	Std. Units		03/18/21 07:49	
EPA 6010D	Calcium	5.4	mg/L	1.0	03/10/21 01:21	M1
EPA 6020B	Barium	0.063	mg/L	0.0050	03/10/21 10:18	
EPA 6020B	Chromium	0.0021J	mg/L	0.0050	03/10/21 10:18	
SM 2450C-2011	Total Dissolved Solids	43.0	mg/L	10.0	03/05/21 11:06	
EPA 300.0 Rev 2.1 1993	Chloride	3.7	mg/L	1.0	03/12/21 04:17	M1
EPA 300.0 Rev 2.1 1993	Sulfate	0.51J	mg/L	1.0	03/12/21 04:17	M1
92525375002	**BRGWA-12I**					
	Performed by	CUSTOMER			03/18/21 07:49	
	pH	6.11	Std. Units		03/18/21 07:49	
EPA 6010D	Calcium	11.7	mg/L	1.0	03/10/21 01:41	
EPA 6020B	Antimony	0.0095	mg/L	0.0030	03/10/21 10:41	
EPA 6020B	Barium	0.053	mg/L	0.0050	03/10/21 10:41	
EPA 6020B	Boron	0.0057J	mg/L	0.040	03/10/21 10:41	
EPA 6020B	Chromium	0.0020J	mg/L	0.0050	03/10/21 10:41	
EPA 6020B	Lithium	0.0045J	mg/L	0.030	03/10/21 10:41	
SM 2450C-2011	Total Dissolved Solids	93.0	mg/L	10.0	03/05/21 15:33	
EPA 300.0 Rev 2.1 1993	Chloride	2.6	mg/L	1.0	03/12/21 05:00	
EPA 300.0 Rev 2.1 1993	Fluoride	0.061J	mg/L	0.10	03/12/21 05:00	
EPA 300.0 Rev 2.1 1993	Sulfate	1.7	mg/L	1.0	03/12/21 05:00	
92525375003	**BRGWA-23S**					
	Performed by	CUSTOMER			03/18/21 07:49	
	pH	5.75	Std. Units		03/18/21 07:49	
EPA 6010D	Calcium	11.6	mg/L	1.0	03/10/21 01:55	
EPA 6020B	Barium	0.097	mg/L	0.0050	03/10/21 10:47	
EPA 6020B	Boron	0.042	mg/L	0.040	03/10/21 10:47	
EPA 6020B	Chromium	0.0020J	mg/L	0.0050	03/10/21 10:47	
EPA 6020B	Lithium	0.0093J	mg/L	0.030	03/10/21 10:47	
EPA 6020B	Selenium	0.0060	mg/L	0.0050	03/10/21 10:47	
SM 2450C-2011	Total Dissolved Solids	105	mg/L	10.0	03/05/21 15:34	
EPA 300.0 Rev 2.1 1993	Chloride	3.5	mg/L	1.0	03/12/21 05:14	
EPA 300.0 Rev 2.1 1993	Sulfate	54.0	mg/L	1.0	03/12/21 05:14	
92525375004	**BRGWC-45**					
	Performed by	CUSTOMER			03/18/21 07:49	
	pH	6.17	Std. Units		03/18/21 07:49	
EPA 6010D	Calcium	33.9	mg/L	1.0	03/10/21 02:00	
EPA 6020B	Antimony	0.0014J	mg/L	0.0030	03/10/21 10:53	
EPA 6020B	Barium	0.061	mg/L	0.0050	03/10/21 10:53	
EPA 6020B	Boron	0.044	mg/L	0.040	03/10/21 10:53	
EPA 6020B	Cadmium	0.00020J	mg/L	0.00050	03/10/21 10:53	
EPA 6020B	Cobalt	0.0057	mg/L	0.0050	03/10/21 10:53	
EPA 6020B	Lithium	0.0043J	mg/L	0.030	03/10/21 10:53	

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SUMMARY OF DETECTION

Project: BRANCH BCD NETWORK
Pace Project No.: 92525375

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92525375004	**BRGWC-45**					
SM 2450C-2011	Total Dissolved Solids	264	mg/L	10.0	03/05/21 15:34	
EPA 300.0 Rev 2.1 1993	Chloride	25.8	mg/L	1.0	03/12/21 05:58	
EPA 300.0 Rev 2.1 1993	Fluoride	0.067J	mg/L	0.10	03/12/21 05:58	
EPA 300.0 Rev 2.1 1993	Sulfate	98.3	mg/L	2.0	03/12/21 09:54	
92525375005	**BRGWC-47**					
	Performed by	CUSTOMER			03/18/21 07:49	
	pH	5.59	Std. Units		03/18/21 07:49	
EPA 6010D	Calcium	353	mg/L	10.0	03/11/21 17:30	
EPA 6020B	Barium	0.036	mg/L	0.0050	03/10/21 10:58	
EPA 6020B	Boron	0.58	mg/L	0.040	03/10/21 10:58	
EPA 6020B	Cobalt	0.00050J	mg/L	0.0050	03/10/21 10:58	
EPA 6020B	Lithium	0.044	mg/L	0.030	03/10/21 10:58	
EPA 6020B	Selenium	0.0028J	mg/L	0.0050	03/10/21 10:58	
SM 2450C-2011	Total Dissolved Solids	1680	mg/L	100	03/05/21 15:34	
EPA 300.0 Rev 2.1 1993	Chloride	4.8	mg/L	1.0	03/12/21 06:12	
EPA 300.0 Rev 2.1 1993	Sulfate	1360	mg/L	29.0	03/12/21 10:08	
92525375006	**BRGWC-25I**					
	Performed by	CUSTOMER			03/18/21 07:49	
	pH	6.10	Std. Units		03/18/21 07:49	
EPA 6010D	Calcium	44.1	mg/L	1.0	03/10/21 02:10	
EPA 6020B	Barium	0.026	mg/L	0.0050	03/10/21 11:28	
EPA 6020B	Boron	1.1	mg/L	0.040	03/10/21 11:28	
EPA 6020B	Cobalt	0.0030J	mg/L	0.0050	03/10/21 11:28	
EPA 6020B	Molybdenum	0.0010J	mg/L	0.010	03/10/21 11:28	
EPA 6020B	Selenium	0.0021J	mg/L	0.0050	03/10/21 11:28	
SM 2450C-2011	Total Dissolved Solids	280	mg/L	10.0	03/05/21 15:34	
EPA 300.0 Rev 2.1 1993	Chloride	4.5	mg/L	1.0	03/12/21 06:27	
EPA 300.0 Rev 2.1 1993	Fluoride	0.15	mg/L	0.10	03/12/21 06:27	
EPA 300.0 Rev 2.1 1993	Sulfate	139	mg/L	3.0	03/12/21 10:23	
92525375007	**BRGWC-27I**					
	Performed by	CUSTOMER			03/18/21 07:49	
	pH	5.90	Std. Units		03/18/21 07:49	
EPA 6010D	Calcium	58.2	mg/L	1.0	03/10/21 02:15	
EPA 6020B	Barium	0.016	mg/L	0.0050	03/10/21 11:33	
EPA 6020B	Beryllium	0.000071J	mg/L	0.00050	03/10/21 11:33	
EPA 6020B	Boron	0.91	mg/L	0.040	03/10/21 11:33	
EPA 6020B	Cobalt	0.0062	mg/L	0.0050	03/10/21 11:33	
EPA 6020B	Lithium	0.0012J	mg/L	0.030	03/10/21 11:33	
EPA 6020B	Selenium	0.0031J	mg/L	0.0050	03/10/21 11:33	
SM 2450C-2011	Total Dissolved Solids	288	mg/L	10.0	03/06/21 09:43	
EPA 300.0 Rev 2.1 1993	Chloride	4.5	mg/L	1.0	03/13/21 16:11	
EPA 300.0 Rev 2.1 1993	Fluoride	0.24	mg/L	0.10	03/13/21 16:11	
EPA 300.0 Rev 2.1 1993	Sulfate	172	mg/L	4.0	03/14/21 10:46	

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SUMMARY OF DETECTION

Project: BRANCH BCD NETWORK
Pace Project No.: 92525375

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92525375008	**BRGWC-29I**					
	Performed by	CUSTOMER			03/18/21 07:49	
	pH	4.46	Std. Units		03/18/21 07:49	
EPA 6010D	Calcium	73.3	mg/L	1.0	03/10/21 02:20	
EPA 6020B	Arsenic	0.0015J	mg/L	0.0050	03/10/21 11:39	
EPA 6020B	Barium	0.021	mg/L	0.0050	03/10/21 11:39	
EPA 6020B	Beryllium	0.00094	mg/L	0.00050	03/10/21 11:39	
EPA 6020B	Boron	1.0	mg/L	0.040	03/10/21 11:39	
EPA 6020B	Cobalt	0.0095	mg/L	0.0050	03/10/21 11:39	
EPA 6020B	Lead	0.00033J	mg/L	0.0010	03/10/21 11:39	
EPA 6020B	Lithium	0.0032J	mg/L	0.030	03/10/21 11:39	
EPA 6020B	Selenium	0.0042J	mg/L	0.0050	03/10/21 11:39	
EPA 6020B	Thallium	0.00018J	mg/L	0.0010	03/10/21 11:39	
SM 2450C-2011	Total Dissolved Solids	515	mg/L	10.0	03/06/21 09:43	
EPA 300.0 Rev 2.1 1993	Chloride	5.6	mg/L	1.0	03/13/21 16:26	
EPA 300.0 Rev 2.1 1993	Fluoride	0.13	mg/L	0.10	03/13/21 16:26	
EPA 300.0 Rev 2.1 1993	Sulfate	341	mg/L	7.0	03/14/21 11:00	
92525375009	**BRGWC-30I**					
	Performed by	CUSTOMER			03/18/21 07:49	
	pH	6.29	Std. Units		03/18/21 07:49	
EPA 6010D	Calcium	122	mg/L	1.0	03/10/21 02:24	
EPA 6020B	Barium	0.028	mg/L	0.0050	03/10/21 11:45	
EPA 6020B	Boron	1.4	mg/L	0.040	03/10/21 11:45	
EPA 6020B	Cobalt	0.0015J	mg/L	0.0050	03/10/21 11:45	
EPA 6020B	Lithium	0.014J	mg/L	0.030	03/10/21 11:45	
SM 2450C-2011	Total Dissolved Solids	690	mg/L	10.0	03/06/21 09:44	
EPA 300.0 Rev 2.1 1993	Chloride	4.0	mg/L	1.0	03/13/21 17:23	
EPA 300.0 Rev 2.1 1993	Fluoride	0.13	mg/L	0.10	03/13/21 17:23	
EPA 300.0 Rev 2.1 1993	Sulfate	371	mg/L	8.0	03/14/21 11:58	
92525375010	**DUP-1**					
EPA 6010D	Calcium	57.0	mg/L	1.0	03/10/21 02:29	
EPA 6020B	Barium	0.016	mg/L	0.0050	03/10/21 11:50	
EPA 6020B	Beryllium	0.000067J	mg/L	0.00050	03/10/21 11:50	
EPA 6020B	Boron	0.93	mg/L	0.040	03/10/21 11:50	
EPA 6020B	Cobalt	0.0062	mg/L	0.0050	03/10/21 11:50	
EPA 6020B	Lithium	0.0012J	mg/L	0.030	03/10/21 11:50	
EPA 6020B	Selenium	0.0027J	mg/L	0.0050	03/10/21 11:50	
SM 2450C-2011	Total Dissolved Solids	297	mg/L	10.0	03/06/21 09:44	
EPA 300.0 Rev 2.1 1993	Chloride	4.6	mg/L	1.0	03/13/21 17:38	
EPA 300.0 Rev 2.1 1993	Fluoride	0.18	mg/L	0.10	03/13/21 17:38	
EPA 300.0 Rev 2.1 1993	Sulfate	172	mg/L	4.0	03/14/21 12:12	
92525375011	**BRGWC-32S**					
	Performed by	CUSTOMER			03/18/21 07:49	
	pH	5.98	Std. Units		03/18/21 07:49	

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SUMMARY OF DETECTION

Project: BRANCH BCD NETWORK
Pace Project No.: 92525375

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92525375011	**BRGWC-32S**					
EPA 6010D	Calcium	35.7	mg/L	1.0	03/10/21 07:25	M1
EPA 6020B	Barium	0.024	mg/L	0.0050	03/10/21 11:56	
EPA 6020B	Boron	1.1	mg/L	0.040	03/10/21 11:56	
EPA 6020B	Chromium	0.0020J	mg/L	0.0050	03/10/21 11:56	
EPA 6020B	Lithium	0.0020J	mg/L	0.030	03/10/21 11:56	
EPA 6020B	Selenium	0.14	mg/L	0.0050	03/10/21 11:56	
SM 2450C-2011	Total Dissolved Solids	350	mg/L	10.0	03/08/21 11:08	
EPA 300.0 Rev 2.1 1993	Chloride	4.6	mg/L	1.0	03/15/21 08:34	
EPA 300.0 Rev 2.1 1993	Sulfate	185	mg/L	4.0	03/15/21 17:30	
92525375012	**BRGWC-52I**					
	Performed by	CUSTOMER			03/18/21 07:49	
	pH	5.87	Std. Units		03/18/21 07:49	
EPA 6010D	Calcium	47.5	mg/L	1.0	03/10/21 07:55	
EPA 6020B	Antimony	0.00091J	mg/L	0.0030	03/10/21 16:23	
EPA 6020B	Arsenic	0.0030J	mg/L	0.0050	03/10/21 16:23	
EPA 6020B	Barium	0.019	mg/L	0.0050	03/10/21 16:23	
EPA 6020B	Boron	1.4	mg/L	0.040	03/10/21 16:23	
EPA 6020B	Lead	0.000042J	mg/L	0.0010	03/10/21 16:23	
EPA 6020B	Lithium	0.0030J	mg/L	0.030	03/10/21 16:23	
EPA 6020B	Molybdenum	0.0010J	mg/L	0.010	03/10/21 16:23	
SM 2450C-2011	Total Dissolved Solids	383	mg/L	10.0	03/08/21 11:08	
EPA 300.0 Rev 2.1 1993	Chloride	5.6	mg/L	1.0	03/15/21 08:49	
EPA 300.0 Rev 2.1 1993	Fluoride	0.28	mg/L	0.10	03/15/21 08:49	
EPA 300.0 Rev 2.1 1993	Sulfate	114	mg/L	2.0	03/15/21 17:45	
92525375013	**EB-2**					
EPA 6020B	Antimony	0.00029J	mg/L	0.0030	03/10/21 16:29	
92525375014	**BRGWC-50**					
	Performed by	CUSTOMER			03/18/21 07:49	
	pH	4.34	Std. Units		03/18/21 07:49	
EPA 6010D	Calcium	214	mg/L	1.0	03/10/21 08:05	
EPA 6020B	Antimony	0.00092J	mg/L	0.0030	03/10/21 16:35	
EPA 6020B	Barium	0.025	mg/L	0.0050	03/10/21 16:35	
EPA 6020B	Beryllium	0.0059	mg/L	0.00050	03/10/21 16:35	
EPA 6020B	Boron	0.31	mg/L	0.040	03/10/21 16:35	
EPA 6020B	Cadmium	0.019	mg/L	0.00050	03/10/21 16:35	
EPA 6020B	Chromium	0.0010J	mg/L	0.0050	03/10/21 16:35	
EPA 6020B	Cobalt	1.4	mg/L	0.025	03/10/21 16:40	
EPA 6020B	Lead	0.00016J	mg/L	0.0010	03/10/21 16:35	
EPA 6020B	Lithium	0.050	mg/L	0.030	03/10/21 16:35	
EPA 6020B	Selenium	0.0039J	mg/L	0.0050	03/10/21 16:35	
SM 2450C-2011	Total Dissolved Solids	1520	mg/L	100	03/09/21 16:19	
EPA 300.0 Rev 2.1 1993	Chloride	18.9	mg/L	1.0	03/15/21 09:48	
EPA 300.0 Rev 2.1 1993	Fluoride	0.60	mg/L	0.10	03/15/21 09:48	
EPA 300.0 Rev 2.1 1993	Sulfate	1250	mg/L	26.0	03/15/21 18:00	

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ANALYTICAL RESULTS

Project: BRANCH BCD NETWORK
Pace Project No.: 92525375

Sample: BRGWA-12S **Lab ID: 92525375001** Collected: 03/02/21 11:50 Received: 03/03/21 10:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		03/18/21 07:49		
pH	**5.92**	Std. Units			1		03/18/21 07:49		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**5.4**	mg/L	1.0	0.070	1	03/09/21 11:14	03/10/21 01:21	7440-70-2	M1
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00028	1	03/09/21 13:19	03/10/21 10:18	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/09/21 13:19	03/10/21 10:18	7440-38-2	
Barium	**0.063**	mg/L	0.0050	0.00071	1	03/09/21 13:19	03/10/21 10:18	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/09/21 13:19	03/10/21 10:18	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	03/09/21 13:19	03/10/21 10:18	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/09/21 13:19	03/10/21 10:18	7440-43-9	
Chromium	**0.0021J**	mg/L	0.0050	0.00055	1	03/09/21 13:19	03/10/21 10:18	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/09/21 13:19	03/10/21 10:18	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/09/21 13:19	03/10/21 10:18	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	03/09/21 13:19	03/10/21 10:18	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/09/21 13:19	03/10/21 10:18	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/09/21 13:19	03/10/21 10:18	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	03/09/21 13:19	03/10/21 10:18	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	03/08/21 08:45	03/08/21 15:01	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**43.0**	mg/L	10.0	10.0	1		03/05/21 11:06		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**3.7**	mg/L	1.0	0.60	1		03/12/21 04:17	16887-00-6	M1
Fluoride	ND	mg/L	0.10	0.050	1		03/12/21 04:17	16984-48-8	M1
Sulfate	**0.51J**	mg/L	1.0	0.50	1		03/12/21 04:17	14808-79-8	M1

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ANALYTICAL RESULTS

Project: BRANCH BCD NETWORK
Pace Project No.: 92525375

Sample: BRGWA-12I **Lab ID: 92525375002** Collected: 03/02/21 08:56 Received: 03/03/21 10:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		03/18/21 07:49		
pH	**6.11**	Std. Units			1		03/18/21 07:49		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**11.7**	mg/L	1.0	0.070	1	03/09/21 11:14	03/10/21 01:41	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.0095**	mg/L	0.0030	0.00028	1	03/09/21 13:19	03/10/21 10:41	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/09/21 13:19	03/10/21 10:41	7440-38-2	
Barium	**0.053**	mg/L	0.0050	0.00071	1	03/09/21 13:19	03/10/21 10:41	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/09/21 13:19	03/10/21 10:41	7440-41-7	
Boron	**0.0057J**	mg/L	0.040	0.0052	1	03/09/21 13:19	03/10/21 10:41	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/09/21 13:19	03/10/21 10:41	7440-43-9	
Chromium	**0.0020J**	mg/L	0.0050	0.00055	1	03/09/21 13:19	03/10/21 10:41	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/09/21 13:19	03/10/21 10:41	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/09/21 13:19	03/10/21 10:41	7439-92-1	
Lithium	**0.0045J**	mg/L	0.030	0.00081	1	03/09/21 13:19	03/10/21 10:41	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/09/21 13:19	03/10/21 10:41	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/09/21 13:19	03/10/21 10:41	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	03/09/21 13:19	03/10/21 10:41	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	03/08/21 08:45	03/08/21 15:04	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**93.0**	mg/L	10.0	10.0	1		03/05/21 15:33		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**2.6**	mg/L	1.0	0.60	1		03/12/21 05:00	16887-00-6	
Fluoride	**0.061J**	mg/L	0.10	0.050	1		03/12/21 05:00	16984-48-8	
Sulfate	**1.7**	mg/L	1.0	0.50	1		03/12/21 05:00	14808-79-8	

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(770)734-4200

ANALYTICAL RESULTS

Project: BRANCH BCD NETWORK
Pace Project No.: 92525375

Sample: BRGWA-23S **Lab ID: 92525375003** Collected: 03/02/21 15:55 Received: 03/03/21 10:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		03/18/21 07:49		
pH	**5.75**	Std. Units			1		03/18/21 07:49		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**11.6**	mg/L	1.0	0.070	1	03/09/21 11:14	03/10/21 01:55	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00028	1	03/09/21 13:19	03/10/21 10:47	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/09/21 13:19	03/10/21 10:47	7440-38-2	
Barium	**0.097**	mg/L	0.0050	0.00071	1	03/09/21 13:19	03/10/21 10:47	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/09/21 13:19	03/10/21 10:47	7440-41-7	
Boron	**0.042**	mg/L	0.040	0.0052	1	03/09/21 13:19	03/10/21 10:47	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/09/21 13:19	03/10/21 10:47	7440-43-9	
Chromium	**0.0020J**	mg/L	0.0050	0.00055	1	03/09/21 13:19	03/10/21 10:47	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/09/21 13:19	03/10/21 10:47	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/09/21 13:19	03/10/21 10:47	7439-92-1	
Lithium	**0.0093J**	mg/L	0.030	0.00081	1	03/09/21 13:19	03/10/21 10:47	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/09/21 13:19	03/10/21 10:47	7439-98-7	
Selenium	**0.0060**	mg/L	0.0050	0.0016	1	03/09/21 13:19	03/10/21 10:47	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	03/09/21 13:19	03/10/21 10:47	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	03/08/21 08:45	03/08/21 15:06	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**105**	mg/L	10.0	10.0	1		03/05/21 15:34		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**3.5**	mg/L	1.0	0.60	1		03/12/21 05:14	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/12/21 05:14	16984-48-8	
Sulfate	**54.0**	mg/L	1.0	0.50	1		03/12/21 05:14	14808-79-8	

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ANALYTICAL RESULTS

Project: BRANCH BCD NETWORK
Pace Project No.: 92525375

Sample: BRGWC-45 **Lab ID: 92525375004** Collected: 03/02/21 13:40 Received: 03/03/21 10:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		03/18/21 07:49		
pH	**6.17**	Std. Units			1		03/18/21 07:49		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**33.9**	mg/L	1.0	0.070	1	03/09/21 11:14	03/10/21 02:00	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.0014J**	mg/L	0.0030	0.00028	1	03/09/21 13:19	03/10/21 10:53	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/09/21 13:19	03/10/21 10:53	7440-38-2	
Barium	**0.061**	mg/L	0.0050	0.00071	1	03/09/21 13:19	03/10/21 10:53	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/09/21 13:19	03/10/21 10:53	7440-41-7	
Boron	**0.044**	mg/L	0.040	0.0052	1	03/09/21 13:19	03/10/21 10:53	7440-42-8	
Cadmium	**0.00020J**	mg/L	0.00050	0.00012	1	03/09/21 13:19	03/10/21 10:53	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/09/21 13:19	03/10/21 10:53	7440-47-3	
Cobalt	**0.0057**	mg/L	0.0050	0.00038	1	03/09/21 13:19	03/10/21 10:53	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/09/21 13:19	03/10/21 10:53	7439-92-1	
Lithium	**0.0043J**	mg/L	0.030	0.00081	1	03/09/21 13:19	03/10/21 10:53	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/09/21 13:19	03/10/21 10:53	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/09/21 13:19	03/10/21 10:53	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	03/09/21 13:19	03/10/21 10:53	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	03/08/21 08:45	03/08/21 15:08	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**264**	mg/L	10.0	10.0	1		03/05/21 15:34		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**25.8**	mg/L	1.0	0.60	1		03/12/21 05:58	16887-00-6	
Fluoride	**0.067J**	mg/L	0.10	0.050	1		03/12/21 05:58	16984-48-8	
Sulfate	**98.3**	mg/L	2.0	1.0	2		03/12/21 09:54	14808-79-8	

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ANALYTICAL RESULTS

Project: BRANCH BCD NETWORK
Pace Project No.: 92525375

Sample: BRGWC-47 **Lab ID: 92525375005** Collected: 03/02/21 15:48 Received: 03/03/21 10:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		03/18/21 07:49		
pH	**5.59**	Std. Units			1		03/18/21 07:49		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**353**	mg/L	10.0	0.70	10	03/09/21 11:14	03/11/21 17:30	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00028	1	03/09/21 13:19	03/10/21 10:58	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/09/21 13:19	03/10/21 10:58	7440-38-2	
Barium	**0.036**	mg/L	0.0050	0.00071	1	03/09/21 13:19	03/10/21 10:58	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/09/21 13:19	03/10/21 10:58	7440-41-7	
Boron	**0.58**	mg/L	0.040	0.0052	1	03/09/21 13:19	03/10/21 10:58	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/09/21 13:19	03/10/21 10:58	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/09/21 13:19	03/10/21 10:58	7440-47-3	
Cobalt	**0.00050J**	mg/L	0.0050	0.00038	1	03/09/21 13:19	03/10/21 10:58	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/09/21 13:19	03/10/21 10:58	7439-92-1	
Lithium	**0.044**	mg/L	0.030	0.00081	1	03/09/21 13:19	03/10/21 10:58	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/09/21 13:19	03/10/21 10:58	7439-98-7	
Selenium	**0.0028J**	mg/L	0.0050	0.0016	1	03/09/21 13:19	03/10/21 10:58	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	03/09/21 13:19	03/10/21 10:58	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	03/08/21 08:45	03/08/21 15:18	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**1680**	mg/L	100	100	1		03/05/21 15:34		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**4.8**	mg/L	1.0	0.60	1		03/12/21 06:12	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/12/21 06:12	16984-48-8	
Sulfate	**1360**	mg/L	29.0	14.5	29		03/12/21 10:08	14808-79-8	

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ANALYTICAL RESULTS

Project: BRANCH BCD NETWORK
Pace Project No.: 92525375

Sample: BRGWC-25I **Lab ID: 92525375006** Collected: 03/02/21 17:08 Received: 03/03/21 10:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		03/18/21 07:49		
pH	**6.10**	Std. Units			1		03/18/21 07:49		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**44.1**	mg/L	1.0	0.070	1	03/09/21 11:14	03/10/21 02:10	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00028	1	03/09/21 13:19	03/10/21 11:28	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/09/21 13:19	03/10/21 11:28	7440-38-2	
Barium	**0.026**	mg/L	0.0050	0.00071	1	03/09/21 13:19	03/10/21 11:28	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/09/21 13:19	03/10/21 11:28	7440-41-7	
Boron	**1.1**	mg/L	0.040	0.0052	1	03/09/21 13:19	03/10/21 11:28	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/09/21 13:19	03/10/21 11:28	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/09/21 13:19	03/10/21 11:28	7440-47-3	
Cobalt	**0.0030J**	mg/L	0.0050	0.00038	1	03/09/21 13:19	03/10/21 11:28	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/09/21 13:19	03/10/21 11:28	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	03/09/21 13:19	03/10/21 11:28	7439-93-2	
Molybdenum	**0.0010J**	mg/L	0.010	0.00069	1	03/09/21 13:19	03/10/21 11:28	7439-98-7	
Selenium	**0.0021J**	mg/L	0.0050	0.0016	1	03/09/21 13:19	03/10/21 11:28	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	03/09/21 13:19	03/10/21 11:28	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	03/08/21 08:45	03/08/21 15:21	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**280**	mg/L	10.0	10.0	1		03/05/21 15:34		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**4.5**	mg/L	1.0	0.60	1		03/12/21 06:27	16887-00-6	
Fluoride	**0.15**	mg/L	0.10	0.050	1		03/12/21 06:27	16984-48-8	
Sulfate	**139**	mg/L	3.0	1.5	3		03/12/21 10:23	14808-79-8	

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ANALYTICAL RESULTS

Project: BRANCH BCD NETWORK
Pace Project No.: 92525375

Sample: BRGWC-27I **Lab ID: 92525375007** Collected: 03/03/21 14:14 Received: 03/04/21 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		03/18/21 07:49		
pH	**5.90**	Std. Units			1		03/18/21 07:49		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**58.2**	mg/L	1.0	0.070	1	03/09/21 11:14	03/10/21 02:15	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00028	1	03/09/21 13:19	03/10/21 11:33	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/09/21 13:19	03/10/21 11:33	7440-38-2	
Barium	**0.016**	mg/L	0.0050	0.00071	1	03/09/21 13:19	03/10/21 11:33	7440-39-3	
Beryllium	**0.000071J**	mg/L	0.00050	0.000046	1	03/09/21 13:19	03/10/21 11:33	7440-41-7	
Boron	**0.91**	mg/L	0.040	0.0052	1	03/09/21 13:19	03/10/21 11:33	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/09/21 13:19	03/10/21 11:33	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/09/21 13:19	03/10/21 11:33	7440-47-3	
Cobalt	**0.0062**	mg/L	0.0050	0.00038	1	03/09/21 13:19	03/10/21 11:33	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/09/21 13:19	03/10/21 11:33	7439-92-1	
Lithium	**0.0012J**	mg/L	0.030	0.00081	1	03/09/21 13:19	03/10/21 11:33	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/09/21 13:19	03/10/21 11:33	7439-98-7	
Selenium	**0.0031J**	mg/L	0.0050	0.0016	1	03/09/21 13:19	03/10/21 11:33	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	03/09/21 13:19	03/10/21 11:33	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	03/08/21 09:00	03/08/21 16:11	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**288**	mg/L	10.0	10.0	1		03/06/21 09:43		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**4.5**	mg/L	1.0	0.60	1		03/13/21 16:11	16887-00-6	
Fluoride	**0.24**	mg/L	0.10	0.050	1		03/13/21 16:11	16984-48-8	
Sulfate	**172**	mg/L	4.0	2.0	4		03/14/21 10:46	14808-79-8	

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ANALYTICAL RESULTS

Project: BRANCH BCD NETWORK
Pace Project No.: 92525375

Sample: BRGWC-29I **Lab ID: 92525375008** Collected: 03/03/21 16:12 Received: 03/04/21 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		03/18/21 07:49		
pH	**4.46**	Std. Units			1		03/18/21 07:49		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**73.3**	mg/L	1.0	0.070	1	03/09/21 11:14	03/10/21 02:20	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00028	1	03/09/21 13:19	03/10/21 11:39	7440-36-0	
Arsenic	**0.0015J**	mg/L	0.0050	0.00078	1	03/09/21 13:19	03/10/21 11:39	7440-38-2	
Barium	**0.021**	mg/L	0.0050	0.00071	1	03/09/21 13:19	03/10/21 11:39	7440-39-3	
Beryllium	**0.00094**	mg/L	0.00050	0.000046	1	03/09/21 13:19	03/10/21 11:39	7440-41-7	
Boron	**1.0**	mg/L	0.040	0.0052	1	03/09/21 13:19	03/10/21 11:39	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/09/21 13:19	03/10/21 11:39	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/09/21 13:19	03/10/21 11:39	7440-47-3	
Cobalt	**0.0095**	mg/L	0.0050	0.00038	1	03/09/21 13:19	03/10/21 11:39	7440-48-4	
Lead	**0.00033J**	mg/L	0.0010	0.000036	1	03/09/21 13:19	03/10/21 11:39	7439-92-1	
Lithium	**0.0032J**	mg/L	0.030	0.00081	1	03/09/21 13:19	03/10/21 11:39	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/09/21 13:19	03/10/21 11:39	7439-98-7	
Selenium	**0.0042J**	mg/L	0.0050	0.0016	1	03/09/21 13:19	03/10/21 11:39	7782-49-2	
Thallium	**0.00018J**	mg/L	0.0010	0.00014	1	03/09/21 13:19	03/10/21 11:39	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	03/08/21 09:00	03/08/21 16:13	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**515**	mg/L	10.0	10.0	1		03/06/21 09:43		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**5.6**	mg/L	1.0	0.60	1		03/13/21 16:26	16887-00-6	
Fluoride	**0.13**	mg/L	0.10	0.050	1		03/13/21 16:26	16984-48-8	
Sulfate	**341**	mg/L	7.0	3.5	7		03/14/21 11:00	14808-79-8	

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ANALYTICAL RESULTS

Project: BRANCH BCD NETWORK
Pace Project No.: 92525375

Sample: BRGWC-30I **Lab ID: 92525375009** Collected: 03/03/21 13:06 Received: 03/04/21 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		03/18/21 07:49		
pH	**6.29**	Std. Units			1		03/18/21 07:49		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**122**	mg/L	1.0	0.070	1	03/09/21 11:14	03/10/21 02:24	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00028	1	03/09/21 13:19	03/10/21 11:45	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/09/21 13:19	03/10/21 11:45	7440-38-2	
Barium	**0.028**	mg/L	0.0050	0.00071	1	03/09/21 13:19	03/10/21 11:45	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/09/21 13:19	03/10/21 11:45	7440-41-7	
Boron	**1.4**	mg/L	0.040	0.0052	1	03/09/21 13:19	03/10/21 11:45	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/09/21 13:19	03/10/21 11:45	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/09/21 13:19	03/10/21 11:45	7440-47-3	
Cobalt	**0.0015J**	mg/L	0.0050	0.00038	1	03/09/21 13:19	03/10/21 11:45	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/09/21 13:19	03/10/21 11:45	7439-92-1	
Lithium	**0.014J**	mg/L	0.030	0.00081	1	03/09/21 13:19	03/10/21 11:45	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/09/21 13:19	03/10/21 11:45	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/09/21 13:19	03/10/21 11:45	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	03/09/21 13:19	03/10/21 11:45	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	03/08/21 09:00	03/08/21 16:23	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**690**	mg/L	10.0	10.0	1		03/06/21 09:44		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**4.0**	mg/L	1.0	0.60	1		03/13/21 17:23	16887-00-6	
Fluoride	**0.13**	mg/L	0.10	0.050	1		03/13/21 17:23	16984-48-8	
Sulfate	**371**	mg/L	8.0	4.0	8		03/14/21 11:58	14808-79-8	

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(770)734-4200

ANALYTICAL RESULTS

Project: BRANCH BCD NETWORK
Pace Project No.: 92525375

Sample: DUP-1 **Lab ID: 92525375010** Collected: 03/03/21 13:06 Received: 03/04/21 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**57.0**	mg/L	1.0	0.070	1	03/09/21 11:14	03/10/21 02:29	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00028	1	03/09/21 13:19	03/10/21 11:50	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/09/21 13:19	03/10/21 11:50	7440-38-2	
Barium	**0.016**	mg/L	0.0050	0.00071	1	03/09/21 13:19	03/10/21 11:50	7440-39-3	
Beryllium	**0.000067J**	mg/L	0.00050	0.000046	1	03/09/21 13:19	03/10/21 11:50	7440-41-7	
Boron	**0.93**	mg/L	0.040	0.0052	1	03/09/21 13:19	03/10/21 11:50	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/09/21 13:19	03/10/21 11:50	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/09/21 13:19	03/10/21 11:50	7440-47-3	
Cobalt	**0.0062**	mg/L	0.0050	0.00038	1	03/09/21 13:19	03/10/21 11:50	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/09/21 13:19	03/10/21 11:50	7439-92-1	
Lithium	**0.0012J**	mg/L	0.030	0.00081	1	03/09/21 13:19	03/10/21 11:50	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/09/21 13:19	03/10/21 11:50	7439-98-7	
Selenium	**0.0027J**	mg/L	0.0050	0.0016	1	03/09/21 13:19	03/10/21 11:50	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	03/09/21 13:19	03/10/21 11:50	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	03/08/21 09:00	03/08/21 16:26	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**297**	mg/L	10.0	10.0	1		03/06/21 09:44		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**4.6**	mg/L	1.0	0.60	1		03/13/21 17:38	16887-00-6	
Fluoride	**0.18**	mg/L	0.10	0.050	1		03/13/21 17:38	16984-48-8	
Sulfate	**172**	mg/L	4.0	2.0	4		03/14/21 12:12	14808-79-8	

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ANALYTICAL RESULTS

Project: BRANCH BCD NETWORK
Pace Project No.: 92525375

Sample: BRGWC-32S **Lab ID: 92525375011** Collected: 03/04/21 11:11 Received: 03/05/21 11:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		03/18/21 07:49		
pH	**5.98**	Std. Units			1		03/18/21 07:49		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**35.7**	mg/L	1.0	0.070	1	03/09/21 13:33	03/10/21 07:25	7440-70-2	M1
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00028	1	03/09/21 13:19	03/10/21 11:56	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/09/21 13:19	03/10/21 11:56	7440-38-2	
Barium	**0.024**	mg/L	0.0050	0.00071	1	03/09/21 13:19	03/10/21 11:56	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/09/21 13:19	03/10/21 11:56	7440-41-7	
Boron	**1.1**	mg/L	0.040	0.0052	1	03/09/21 13:19	03/10/21 11:56	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/09/21 13:19	03/10/21 11:56	7440-43-9	
Chromium	**0.0020J**	mg/L	0.0050	0.00055	1	03/09/21 13:19	03/10/21 11:56	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/09/21 13:19	03/10/21 11:56	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/09/21 13:19	03/10/21 11:56	7439-92-1	
Lithium	**0.0020J**	mg/L	0.030	0.00081	1	03/09/21 13:19	03/10/21 11:56	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/09/21 13:19	03/10/21 11:56	7439-98-7	
Selenium	**0.14**	mg/L	0.0050	0.0016	1	03/09/21 13:19	03/10/21 11:56	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	03/09/21 13:19	03/10/21 11:56	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	03/08/21 13:30	03/09/21 11:20	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**350**	mg/L	10.0	10.0	1		03/08/21 11:08		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**4.6**	mg/L	1.0	0.60	1		03/15/21 08:34	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/15/21 08:34	16984-48-8	
Sulfate	**185**	mg/L	4.0	2.0	4		03/15/21 17:30	14808-79-8	

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ANALYTICAL RESULTS

Project: BRANCH BCD NETWORK
Pace Project No.: 92525375

Sample: BRGWC-52I **Lab ID: 92525375012** Collected: 03/04/21 12:20 Received: 03/05/21 11:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		03/18/21 07:49		
pH	**5.87**	Std. Units			1		03/18/21 07:49		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**47.5**	mg/L	1.0	0.070	1	03/09/21 13:33	03/10/21 07:55	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.00091J**	mg/L	0.0030	0.00028	1	03/09/21 13:19	03/10/21 16:23	7440-36-0	
Arsenic	**0.0030J**	mg/L	0.0050	0.00078	1	03/09/21 13:19	03/10/21 16:23	7440-38-2	
Barium	**0.019**	mg/L	0.0050	0.00071	1	03/09/21 13:19	03/10/21 16:23	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/09/21 13:19	03/10/21 16:23	7440-41-7	
Boron	**1.4**	mg/L	0.040	0.0052	1	03/09/21 13:19	03/10/21 16:23	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/09/21 13:19	03/10/21 16:23	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/09/21 13:19	03/10/21 16:23	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/09/21 13:19	03/10/21 16:23	7440-48-4	
Lead	**0.000042J**	mg/L	0.0010	0.000036	1	03/09/21 13:19	03/10/21 16:23	7439-92-1	
Lithium	**0.0030J**	mg/L	0.030	0.00081	1	03/09/21 13:19	03/10/21 16:23	7439-93-2	
Molybdenum	**0.0010J**	mg/L	0.010	0.00069	1	03/09/21 13:19	03/10/21 16:23	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/09/21 13:19	03/10/21 16:23	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	03/09/21 13:19	03/10/21 16:23	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	03/08/21 13:30	03/09/21 11:23	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**383**	mg/L	10.0	10.0	1		03/08/21 11:08		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**5.6**	mg/L	1.0	0.60	1		03/15/21 08:49	16887-00-6	
Fluoride	**0.28**	mg/L	0.10	0.050	1		03/15/21 08:49	16984-48-8	
Sulfate	**114**	mg/L	2.0	1.0	2		03/15/21 17:45	14808-79-8	

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ANALYTICAL RESULTS

Project: BRANCH BCD NETWORK
Pace Project No.: 92525375

Sample: EB-2 **Lab ID: 92525375013** Collected: 03/04/21 12:40 Received: 03/05/21 11:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	ND	mg/L	1.0	0.070	1	03/09/21 13:33	03/10/21 08:00	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.00029J**	mg/L	0.0030	0.00028	1	03/09/21 13:19	03/10/21 16:29	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/09/21 13:19	03/10/21 16:29	7440-38-2	
Barium	ND	mg/L	0.0050	0.00071	1	03/09/21 13:19	03/10/21 16:29	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/09/21 13:19	03/10/21 16:29	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	03/09/21 13:19	03/10/21 16:29	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/09/21 13:19	03/10/21 16:29	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/09/21 13:19	03/10/21 16:29	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/09/21 13:19	03/10/21 16:29	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/09/21 13:19	03/10/21 16:29	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	03/09/21 13:19	03/10/21 16:29	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/09/21 13:19	03/10/21 16:29	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/09/21 13:19	03/10/21 16:29	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	03/09/21 13:19	03/10/21 16:29	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	03/08/21 13:30	03/09/21 11:25	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		03/09/21 16:18		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		03/15/21 09:04	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/15/21 09:04	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		03/15/21 09:04	14808-79-8	

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ANALYTICAL RESULTS

Project: BRANCH BCD NETWORK
Pace Project No.: 92525375

Sample: BRGWC-50 **Lab ID: 92525375014** Collected: 03/04/21 17:07 Received: 03/05/21 11:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		03/18/21 07:49		
pH	**4.34**	Std. Units			1		03/18/21 07:49		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**214**	mg/L	1.0	0.070	1	03/09/21 13:33	03/10/21 08:05	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.00092J**	mg/L	0.0030	0.00028	1	03/09/21 13:19	03/10/21 16:35	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/09/21 13:19	03/10/21 16:35	7440-38-2	
Barium	**0.025**	mg/L	0.0050	0.00071	1	03/09/21 13:19	03/10/21 16:35	7440-39-3	
Beryllium	**0.0059**	mg/L	0.00050	0.000046	1	03/09/21 13:19	03/10/21 16:35	7440-41-7	
Boron	**0.31**	mg/L	0.040	0.0052	1	03/09/21 13:19	03/10/21 16:35	7440-42-8	
Cadmium	**0.019**	mg/L	0.00050	0.00012	1	03/09/21 13:19	03/10/21 16:35	7440-43-9	
Chromium	**0.0010J**	mg/L	0.0050	0.00055	1	03/09/21 13:19	03/10/21 16:35	7440-47-3	
Cobalt	**1.4**	mg/L	0.025	0.0019	5	03/09/21 13:19	03/10/21 16:40	7440-48-4	
Lead	**0.00016J**	mg/L	0.0010	0.000036	1	03/09/21 13:19	03/10/21 16:35	7439-92-1	
Lithium	**0.050**	mg/L	0.030	0.00081	1	03/09/21 13:19	03/10/21 16:35	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/09/21 13:19	03/10/21 16:35	7439-98-7	
Selenium	**0.0039J**	mg/L	0.0050	0.0016	1	03/09/21 13:19	03/10/21 16:35	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	03/09/21 13:19	03/10/21 16:35	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	03/08/21 13:30	03/09/21 11:39	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**1520**	mg/L	100	100	1		03/09/21 16:19		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**18.9**	mg/L	1.0	0.60	1		03/15/21 09:48	16887-00-6	
Fluoride	**0.60**	mg/L	0.10	0.050	1		03/15/21 09:48	16984-48-8	
Sulfate	**1250**	mg/L	26.0	13.0	26		03/15/21 18:00	14808-79-8	

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ANALYTICAL RESULTS

Project: BRANCH BCD NETWORK
Pace Project No.: 92525375

Sample: EB-1 **Lab ID: 92525375015** Collected: 03/05/21 07:31 Received: 03/05/21 11:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	ND	mg/L	1.0	0.070	1	03/09/21 13:33	03/10/21 08:10	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00028	1	03/09/21 13:19	03/10/21 16:58	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/09/21 13:19	03/10/21 16:58	7440-38-2	
Barium	ND	mg/L	0.0050	0.00071	1	03/09/21 13:19	03/10/21 16:58	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/09/21 13:19	03/10/21 16:58	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	03/09/21 13:19	03/10/21 16:58	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/09/21 13:19	03/10/21 16:58	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/09/21 13:19	03/10/21 16:58	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/09/21 13:19	03/10/21 16:58	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/09/21 13:19	03/10/21 16:58	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	03/09/21 13:19	03/10/21 16:58	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/09/21 13:19	03/10/21 16:58	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/09/21 13:19	03/10/21 16:58	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	03/09/21 13:19	03/10/21 16:58	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	03/08/21 13:30	03/09/21 11:42	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		03/10/21 09:43		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		03/15/21 10:03	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/15/21 10:03	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		03/15/21 10:03	14808-79-8	

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QUALITY CONTROL DATA

Project: BRANCH BCD NETWORK
Pace Project No.: 92525375

QC Batch: 605192 — Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A — Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92525375001, 92525375002, 92525375003, 92525375004, 92525375005, 92525375006, 92525375007, 92525375008, 92525375009, 92525375010

METHOD BLANK: 3188292 — Matrix: Water
Associated Lab Samples: 92525375001, 92525375002, 92525375003, 92525375004, 92525375005, 92525375006, 92525375007, 92525375008, 92525375009, 92525375010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.070	03/10/21 01:11	

LABORATORY CONTROL SAMPLE: 3188293

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0J	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3188294 3188295

Parameter	Units	92525375001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	5.4	1	1	6.6	7.2	113	176	75-125	9	20	M1

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QUALITY CONTROL DATA

Project: BRANCH BCD NETWORK
Pace Project No.: 92525375

QC Batch: 605231 | Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A | Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92525375011, 92525375012, 92525375013, 92525375014, 92525375015

METHOD BLANK: 3188482 Matrix: Water
Associated Lab Samples: 92525375011, 92525375012, 92525375013, 92525375014, 92525375015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.070	03/10/21 07:16	

LABORATORY CONTROL SAMPLE: 3188483

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	0.96J	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3188484 3188485

Parameter	Units	92525375011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	35.7	1	1	36.7	36.0	100	30	75-125	2	20	M1

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QUALITY CONTROL DATA

Project: BRANCH BCD NETWORK
Pace Project No.: 92525375

QC Batch: 605225
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92525375001, 92525375002, 92525375003, 92525375004, 92525375005, 92525375006, 92525375007, 92525375008, 92525375009, 92525375010, 92525375011, 92525375012, 92525375013, 92525375014, 92525375015

METHOD BLANK: 3188456 Matrix: Water
Associated Lab Samples: 92525375001, 92525375002, 92525375003, 92525375004, 92525375005, 92525375006, 92525375007, 92525375008, 92525375009, 92525375010, 92525375011, 92525375012, 92525375013, 92525375014, 92525375015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00028	03/10/21 10:07	
Arsenic	mg/L	ND	0.0050	0.00078	03/10/21 10:07	
Barium	mg/L	ND	0.0050	0.00071	03/10/21 10:07	
Beryllium	mg/L	ND	0.00050	0.000046	03/10/21 10:07	
Boron	mg/L	ND	0.040	0.0052	03/10/21 10:07	
Cadmium	mg/L	ND	0.00050	0.00012	03/10/21 10:07	
Chromium	mg/L	ND	0.0050	0.00055	03/10/21 10:07	
Cobalt	mg/L	ND	0.0050	0.00038	03/10/21 10:07	
Lead	mg/L	ND	0.0010	0.000036	03/10/21 10:07	
Lithium	mg/L	ND	0.030	0.00081	03/10/21 10:07	
Molybdenum	mg/L	ND	0.010	0.00069	03/10/21 10:07	
Selenium	mg/L	ND	0.0050	0.0016	03/10/21 10:07	
Thallium	mg/L	ND	0.0010	0.00014	03/10/21 10:07	

LABORATORY CONTROL SAMPLE: 3188457

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	104	80-120	
Arsenic	mg/L	0.1	0.098	98	80-120	
Barium	mg/L	0.1	0.095	95	80-120	
Beryllium	mg/L	0.1	0.091	91	80-120	
Boron	mg/L	1	0.94	94	80-120	
Cadmium	mg/L	0.1	0.10	101	80-120	
Chromium	mg/L	0.1	0.099	99	80-120	
Cobalt	mg/L	0.1	0.099	99	80-120	
Lead	mg/L	0.1	0.095	95	80-120	
Lithium	mg/L	0.1	0.099	99	80-120	
Molybdenum	mg/L	0.1	0.097	97	80-120	
Selenium	mg/L	0.1	0.092	92	80-120	
Thallium	mg/L	0.1	0.092	92	80-120	

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QUALITY CONTROL DATA

Project: BRANCH BCD NETWORK
Pace Project No.: 92525375

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3188458 3188459

Parameter	Units	92525375001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.11	0.11	105	108	75-125	3	20	
Arsenic	mg/L	ND	0.1	0.1	0.096	0.096	96	96	75-125	1	20	
Barium	mg/L	0.063	0.1	0.1	0.17	0.17	104	109	75-125	3	20	
Beryllium	mg/L	ND	0.1	0.1	0.089	0.092	89	92	75-125	4	20	
Boron	mg/L	ND	1	1	0.91	0.95	91	95	75-125	4	20	
Cadmium	mg/L	ND	0.1	0.1	0.10	0.10	101	102	75-125	1	20	
Chromium	mg/L	0.0021J	0.1	0.1	0.10	0.10	100	100	75-125	0	20	
Cobalt	mg/L	ND	0.1	0.1	0.098	0.098	98	98	75-125	0	20	
Lead	mg/L	ND	0.1	0.1	0.092	0.096	92	96	75-125	3	20	
Lithium	mg/L	ND	0.1	0.1	0.095	0.098	94	98	75-125	3	20	
Molybdenum	mg/L	ND	0.1	0.1	0.099	0.10	99	101	75-125	2	20	
Selenium	mg/L	ND	0.1	0.1	0.088	0.092	88	92	75-125	4	20	
Thallium	mg/L	ND	0.1	0.1	0.091	0.093	91	93	75-125	3	20	

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QUALITY CONTROL DATA

Project: BRANCH BCD NETWORK
Pace Project No.: 92525375

QC Batch: 604663 | Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A | Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92525375001, 92525375002, 92525375003, 92525375004, 92525375005, 92525375006

METHOD BLANK: 3185603 Matrix: Water
Associated Lab Samples: 92525375001, 92525375002, 92525375003, 92525375004, 92525375005, 92525375006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000078	03/08/21 14:27	

LABORATORY CONTROL SAMPLE: 3185604

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0024	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3185605 3185606

Parameter	Units	92524831012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0024	0.0022	95	88	75-125	7	20	

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QUALITY CONTROL DATA

Project: BRANCH BCD NETWORK
Pace Project No.: 92525375

QC Batch: 604664
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92525375007, 92525375008, 92525375009, 92525375010

METHOD BLANK: 3185623 Matrix: Water
Associated Lab Samples: 92525375007, 92525375008, 92525375009, 92525375010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000078	03/08/21 15:49	

LABORATORY CONTROL SAMPLE: 3185624

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0027	109	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3185625 3185626

Parameter	Units	92524831021 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0022	0.0019	86	78	75-125	10	20	

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QUALITY CONTROL DATA

Project: BRANCH BCD NETWORK
Pace Project No.: 92525375

QC Batch: 604928 | Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A | Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92525375011, 92525375012, 92525375013, 92525375014, 92525375015

METHOD BLANK: 3187260 Matrix: Water
Associated Lab Samples: 92525375011, 92525375012, 92525375013, 92525375014, 92525375015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000078	03/09/21 10:42	

LABORATORY CONTROL SAMPLE: 3187261

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0024	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3187262 3187263

Parameter	Units	92525375013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0023	0.0019	93	78	75-125	18	20	

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QUALITY CONTROL DATA

Project: BRANCH BCD NETWORK
Pace Project No.: 92525375

QC Batch: 604527
QC Batch Method: SM 2450C-2011
Analysis Method: SM 2450C-2011
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92525375001

METHOD BLANK: 3184654 Matrix: Water
Associated Lab Samples: 92525375001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	03/05/21 11:03	

LABORATORY CONTROL SAMPLE: 3184655

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	375	94	90-111	

SAMPLE DUPLICATE: 3184656

Parameter	Units	92525799001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	2090	1960	6	10	

SAMPLE DUPLICATE: 3184657

Parameter	Units	92525341004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	167	152	9	10	

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QUALITY CONTROL DATA

Project: BRANCH BCD NETWORK
Pace Project No.: 92525375

QC Batch: 604626 | Analysis Method: SM 2450C-2011
QC Batch Method: SM 2450C-2011 | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92525375002, 92525375003, 92525375004, 92525375005, 92525375006

METHOD BLANK: 3185317 Matrix: Water
Associated Lab Samples: 92525375002, 92525375003, 92525375004, 92525375005, 92525375006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	03/05/21 15:33	

LABORATORY CONTROL SAMPLE: 3185318

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	390	98	90-111	

SAMPLE DUPLICATE: 3185319

Parameter	Units	92525822001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	274	290	6	10	

SAMPLE DUPLICATE: 3185328

Parameter	Units	92524831016 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	325	354	9	10	

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QUALITY CONTROL DATA

Project: BRANCH BCD NETWORK
Pace Project No.: 92525375

QC Batch: 604754 | Analysis Method: SM 2450C-2011
QC Batch Method: SM 2450C-2011 | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92525375007, 92525375008, 92525375009, 92525375010

METHOD BLANK: 3186276 Matrix: Water
Associated Lab Samples: 92525375007, 92525375008, 92525375009, 92525375010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	03/06/21 09:43	

LABORATORY CONTROL SAMPLE: 3186277

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	385	96	90-111	

SAMPLE DUPLICATE: 3186278

Parameter	Units	92525375007 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	288	277	4	10	

SAMPLE DUPLICATE: 3186279

Parameter	Units	92525662002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1050	1010	4	10	

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QUALITY CONTROL DATA

Project: BRANCH BCD NETWORK
Pace Project No.: 92525375

QC Batch: 604895
QC Batch Method: SM 2450C-2011
Analysis Method: SM 2450C-2011
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92525375011, 92525375012

METHOD BLANK: 3186921 Matrix: Water
Associated Lab Samples: 92525375011, 92525375012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	03/08/21 11:05	

LABORATORY CONTROL SAMPLE: 3186922

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	387	97	90-111	

SAMPLE DUPLICATE: 3186923

Parameter	Units	92526103001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	154	311	68	10	D6

SAMPLE DUPLICATE: 3186924

Parameter	Units	92525936007 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	856	878	3	10	

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QUALITY CONTROL DATA

Project: BRANCH BCD NETWORK
Pace Project No.: 92525375

QC Batch: 605136
QC Batch Method: SM 2450C-2011
Analysis Method: SM 2450C-2011
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92525375013, 92525375014

METHOD BLANK: 3187989 Matrix: Water
Associated Lab Samples: 92525375013, 92525375014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	03/09/21 16:18	

LABORATORY CONTROL SAMPLE: 3187990

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	384	96	90-111	

SAMPLE DUPLICATE: 3187991

Parameter	Units	92525375013 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	ND	ND		10	

SAMPLE DUPLICATE: 3187992

Parameter	Units	92524831030 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	234	232	1	10	

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QUALITY CONTROL DATA

Project: BRANCH BCD NETWORK
Pace Project No.: 92525375

QC Batch: 605445
QC Batch Method: SM 2450C-2011
Analysis Method: SM 2450C-2011
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92525375015

METHOD BLANK: 3189630 Matrix: Water
Associated Lab Samples: 92525375015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	03/10/21 09:39	

LABORATORY CONTROL SAMPLE: 3189631

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	391	98	90-111	

SAMPLE DUPLICATE: 3189632

Parameter	Units	92526563001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1350	1390	3	10	

SAMPLE DUPLICATE: 3189633

Parameter	Units	92526568008 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	45.0	46.0	2	10	

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REPORT OF LABORATORY ANALYSIS

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110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: BRANCH BCD NETWORK
Pace Project No.: 92525375

QC Batch: 606038
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92525375001, 92525375002, 92525375003, 92525375004, 92525375005, 92525375006

METHOD BLANK: 3192959 Matrix: Water
Associated Lab Samples: 92525375001, 92525375002, 92525375003, 92525375004, 92525375005, 92525375006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	03/12/21 00:26	
Fluoride	mg/L	ND	0.10	0.050	03/12/21 00:26	
Sulfate	mg/L	ND	1.0	0.50	03/12/21 00:26	

LABORATORY CONTROL SAMPLE: 3192960

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	52.8	106	90-110	
Fluoride	mg/L	2.5	2.7	107	90-110	
Sulfate	mg/L	50	54.5	109	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3192961 3192962

Parameter	Units	92526606002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	68.3	50	50	100	102	64	67	90-110	2	10	M1
Fluoride	mg/L	0.34	2.5	2.5	2.5	2.5	85	87	90-110	2	10	M1
Sulfate	mg/L	95.3	50	50	128	130	65	68	90-110	1	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3192963 3192964

Parameter	Units	92525375001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	3.7	50	50	47.1	46.1	87	85	90-110	2	10	M1
Fluoride	mg/L	ND	2.5	2.5	2.2	2.2	89	87	90-110	2	10	M1
Sulfate	mg/L	0.51J	50	50	45.8	44.7	91	88	90-110	2	10	M1

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QUALITY CONTROL DATA

Project: BRANCH BCD NETWORK
Pace Project No.: 92525375

QC Batch: 606452
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92525375007, 92525375008, 92525375009, 92525375010

METHOD BLANK: 3195118 Matrix: Water
Associated Lab Samples: 92525375007, 92525375008, 92525375009, 92525375010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	03/13/21 11:23	
Fluoride	mg/L	ND	0.10	0.050	03/13/21 11:23	
Sulfate	mg/L	ND	1.0	0.50	03/13/21 11:23	

LABORATORY CONTROL SAMPLE: 3195119

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	51.4	103	90-110	
Fluoride	mg/L	2.5	2.7	108	90-110	
Sulfate	mg/L	50	53.7	107	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3195120 3195121

Parameter	Units	92524831015 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	8.3	50	50	61.2	62.7	106	109	90-110	2	10	
Fluoride	mg/L	0.34	2.5	2.5	4.0	4.0	148	147	90-110	1	10	M1
Sulfate	mg/L	225	50	50	267	269	84	87	90-110	1	10	M6

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3195122 3195123

Parameter	Units	92524831022 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	2.9	50	50	56.8	57.0	108	108	90-110	0	10	
Fluoride	mg/L	0.71	2.5	2.5	4.6	4.7	154	158	90-110	2	10	M1
Sulfate	mg/L	143	50	50	193	193	100	100	90-110	0	10	

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QUALITY CONTROL DATA

Project: BRANCH BCD NETWORK
Pace Project No.: 92525375

QC Batch: 606497
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92525375011, 92525375012, 92525375013, 92525375014, 92525375015

METHOD BLANK: 3195321 Matrix: Water
Associated Lab Samples: 92525375011, 92525375012, 92525375013, 92525375014, 92525375015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	03/15/21 05:49	
Fluoride	mg/L	ND	0.10	0.050	03/15/21 05:49	
Sulfate	mg/L	ND	1.0	0.50	03/15/21 05:49	

LABORATORY CONTROL SAMPLE: 3195322

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	46.1	92	90-110	
Fluoride	mg/L	2.5	2.4	94	90-110	
Sulfate	mg/L	50	45.3	91	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3195323 3195324

Parameter	Units	92525919013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	5.9	50	50	56.7	55.0	102	98	90-110	3	10	
Fluoride	mg/L	ND	2.5	2.5	2.5	2.4	99	97	90-110	3	10	
Sulfate	mg/L	38.9	50	50	90.2	88.6	103	99	90-110	2	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3195325 3195326

Parameter	Units	92525657006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	5.8	50	50	55.5	56.0	100	100	90-110	1	10	
Fluoride	mg/L	0.076J	2.5	2.5	2.6	2.7	103	103	90-110	0	10	
Sulfate	mg/L	251	50	50	293	305	83	108	90-110	4	10	M6

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QUALIFIERS

Project: BRANCH BCD NETWORK
Pace Project No.: 92525375

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

D6	The precision between the sample and sample duplicate exceeded laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
M6	Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRANCH BCD NETWORK
Pace Project No.: 92525375

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92525375001	**BRGWA-12S**				
92525375002	**BRGWA-12I**				
92525375003	**BRGWA-23S**				
92525375004	**BRGWC-45**				
92525375005	**BRGWC-47**				
92525375006	**BRGWC-25I**				
92525375007	**BRGWC-27I**				
92525375008	**BRGWC-29I**				
92525375009	**BRGWC-30I**				
92525375011	**BRGWC-32S**				
92525375012	**BRGWC-52I**				
92525375014	**BRGWC-50**				
92525375001	**BRGWA-12S**	EPA 3010A	605192	EPA 6010D	605250
92525375002	**BRGWA-12I**	EPA 3010A	605192	EPA 6010D	605250
92525375003	**BRGWA-23S**	EPA 3010A	605192	EPA 6010D	605250
92525375004	**BRGWC-45**	EPA 3010A	605192	EPA 6010D	605250
92525375005	**BRGWC-47**	EPA 3010A	605192	EPA 6010D	605250
92525375006	**BRGWC-25I**	EPA 3010A	605192	EPA 6010D	605250
92525375007	**BRGWC-27I**	EPA 3010A	605192	EPA 6010D	605250
92525375008	**BRGWC-29I**	EPA 3010A	605192	EPA 6010D	605250
92525375009	**BRGWC-30I**	EPA 3010A	605192	EPA 6010D	605250
92525375010	**DUP-1**	EPA 3010A	605192	EPA 6010D	605250
92525375011	**BRGWC-32S**	EPA 3010A	605231	EPA 6010D	605319
92525375012	**BRGWC-52I**	EPA 3010A	605231	EPA 6010D	605319
92525375013	**EB-2**	EPA 3010A	605231	EPA 6010D	605319
92525375014	**BRGWC-50**	EPA 3010A	605231	EPA 6010D	605319
92525375015	**EB-1**	EPA 3010A	605231	EPA 6010D	605319
92525375001	**BRGWA-12S**	EPA 3005A	605225	EPA 6020B	605314
92525375002	**BRGWA-12I**	EPA 3005A	605225	EPA 6020B	605314
92525375003	**BRGWA-23S**	EPA 3005A	605225	EPA 6020B	605314
92525375004	**BRGWC-45**	EPA 3005A	605225	EPA 6020B	605314
92525375005	**BRGWC-47**	EPA 3005A	605225	EPA 6020B	605314
92525375006	**BRGWC-25I**	EPA 3005A	605225	EPA 6020B	605314
92525375007	**BRGWC-27I**	EPA 3005A	605225	EPA 6020B	605314
92525375008	**BRGWC-29I**	EPA 3005A	605225	EPA 6020B	605314
92525375009	**BRGWC-30I**	EPA 3005A	605225	EPA 6020B	605314
92525375010	**DUP-1**	EPA 3005A	605225	EPA 6020B	605314
92525375011	**BRGWC-32S**	EPA 3005A	605225	EPA 6020B	605314
92525375012	**BRGWC-52I**	EPA 3005A	605225	EPA 6020B	605314
92525375013	**EB-2**	EPA 3005A	605225	EPA 6020B	605314
92525375014	**BRGWC-50**	EPA 3005A	605225	EPA 6020B	605314
92525375015	**EB-1**	EPA 3005A	605225	EPA 6020B	605314
92525375001	**BRGWA-12S**	EPA 7470A	604663	EPA 7470A	604884
92525375002	**BRGWA-12I**	EPA 7470A	604663	EPA 7470A	604884
92525375003	**BRGWA-23S**	EPA 7470A	604663	EPA 7470A	604884
92525375004	**BRGWC-45**	EPA 7470A	604663	EPA 7470A	604884
92525375005	**BRGWC-47**	EPA 7470A	604663	EPA 7470A	604884

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRANCH BCD NETWORK
Pace Project No.: 92525375

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92525375006	**BRGWC-25I**	EPA 7470A	604663	EPA 7470A	604884
92525375007	**BRGWC-27I**	EPA 7470A	604664	EPA 7470A	604885
92525375008	**BRGWC-29I**	EPA 7470A	604664	EPA 7470A	604885
92525375009	**BRGWC-30I**	EPA 7470A	604664	EPA 7470A	604885
92525375010	**DUP-1**	EPA 7470A	604664	EPA 7470A	604885
92525375011	**BRGWC-32S**	EPA 7470A	604928	EPA 7470A	605029
92525375012	**BRGWC-52I**	EPA 7470A	604928	EPA 7470A	605029
92525375013	**EB-2**	EPA 7470A	604928	EPA 7470A	605029
92525375014	**BRGWC-50**	EPA 7470A	604928	EPA 7470A	605029
92525375015	**EB-1**	EPA 7470A	604928	EPA 7470A	605029
92525375001	**BRGWA-12S**	SM 2450C-2011	604527		
92525375002	**BRGWA-12I**	SM 2450C-2011	604626		
92525375003	**BRGWA-23S**	SM 2450C-2011	604626		
92525375004	**BRGWC-45**	SM 2450C-2011	604626		
92525375005	**BRGWC-47**	SM 2450C-2011	604626		
92525375006	**BRGWC-25I**	SM 2450C-2011	604626		
92525375007	**BRGWC-27I**	SM 2450C-2011	604754		
92525375008	**BRGWC-29I**	SM 2450C-2011	604754		
92525375009	**BRGWC-30I**	SM 2450C-2011	604754		
92525375010	**DUP-1**	SM 2450C-2011	604754		
92525375011	**BRGWC-32S**	SM 2450C-2011	604895		
92525375012	**BRGWC-52I**	SM 2450C-2011	604895		
92525375013	**EB-2**	SM 2450C-2011	605136		
92525375014	**BRGWC-50**	SM 2450C-2011	605136		
92525375015	**EB-1**	SM 2450C-2011	605445		
92525375001	**BRGWA-12S**	EPA 300.0 Rev 2.1 1993	606038		
92525375002	**BRGWA-12I**	EPA 300.0 Rev 2.1 1993	606038		
92525375003	**BRGWA-23S**	EPA 300.0 Rev 2.1 1993	606038		
92525375004	**BRGWC-45**	EPA 300.0 Rev 2.1 1993	606038		
92525375005	**BRGWC-47**	EPA 300.0 Rev 2.1 1993	606038		
92525375006	**BRGWC-25I**	EPA 300.0 Rev 2.1 1993	606038		
92525375007	**BRGWC-27I**	EPA 300.0 Rev 2.1 1993	606452		
92525375008	**BRGWC-29I**	EPA 300.0 Rev 2.1 1993	606452		
92525375009	**BRGWC-30I**	EPA 300.0 Rev 2.1 1993	606452		
92525375010	**DUP-1**	EPA 300.0 Rev 2.1 1993	606452		
92525375011	**BRGWC-32S**	EPA 300.0 Rev 2.1 1993	606497		
92525375012	**BRGWC-52I**	EPA 300.0 Rev 2.1 1993	606497		
92525375013	**EB-2**	EPA 300.0 Rev 2.1 1993	606497		
92525375014	**BRGWC-50**	EPA 300.0 Rev 2.1 1993	606497		
92525375015	**EB-1**	EPA 300.0 Rev 2.1 1993	606497		

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Pace Analytical	Document Name: Sample Condition Upon Receipt(SCUR)	Document Revised: October 28, 2020 Page 1 of 2
	Document No.: F-CAR-CS-033-Rev.07	Issuing Authority: Pace Carolinas Quality Office

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #: WO# : 92525375

92525375

Courier: ☑ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Pace ☐ Other:____

Custody Seal Present? ☑ Yes ☐ No **Seals Intact?** ☑ Yes ☐ No

Date/Initials Person Examining Contents: 3/3/21

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☑ No ☐ N/A

Thermometer: ☑ IR Gun ID: 230 ☑ Wet ☐ Blue ☐ None **Type of Ice:**

Cooler Temp: 3.3 **Correction Factor:** Add/Subtract (°C) 0.0

Cooler Temp Corrected (°C): 3.3

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: GW				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ **Date:** _____

Project Manager SRF Review: _____ **Date:** _____

***Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.**

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

****Bottom half of box is to list number of bottles**

Project # WO#: 92525375

PM: KLH1 Due Date: 03/17/21

CLIENT: GA-GA Power

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	(SP1N)	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		2			1	1													3					2				
2		2			1	1													3					2				
3		2			1	1													3					2				
4		2			1	1													3					2				
5		2			1	1													3					2				
6		2			1	1													3					2				
7																													
8																													
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields

LAB USE ONLY- Affix Workorder/Login Labels Here or List Pace Workorder Number or MTJL Log-in Number Here

ALL SHADED AREAS are for LAB USE ONLY

Company: Georgia Power - Coal Combustion Residuals	Billing Information:
Address: 2480 Maner Road Atlanta, GA 30339	
Report To: Joju Abraham	Email To: scsinvoices@southernco.com
Copy To: Golder	Site Collection Info/Address: Plant Branch
phone: (404) 506-7239 Email: jabraham@southernco.com	State: Georgia City: Milledgeville Time Zone Collected: [ ]PT [ ]MT [ ]CT [X]ET
Phone: (404) 506-7239 Email: jabraham@southernco.com	Project Name: Plant Branch BCD Network Project # CCR 4th Semi-Annual / Pace Profile#
Collected By (print): Travis Martinez, Andrea McClure	Purchase Order # Quote # / Pace Project Manager: kevin.herring@pacelabs.com
Collected By (signature):	Turnaround Date Required: / Immediately Packed on Ice: [X] Yes [ ] No
	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply) / Field Filtered (if applicable): [ ] Yes [ ] No Analysis:

Container Preservative Type **: 1 | 0 | 2 | 1

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Water (WT), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	pH	# of Ctns	Metals 6010/6020/7470 - see comments	Total Alkalinity and Bicarbonate/Carbonate Alkalinity	Dissolved Organic Carbon	NOX 353.2	Total Hardness SM 2304B	Lab Profile/Line:
BRGWA-12S	GW	G	3-2-21	1150			5.92	6	X	X	X	X	X	
BRGWA-12I	GW	G	3-2-21	0856			6.11	6	X	X	X	X	X	
BRGWA-23S	GW	G	3-2-21	1555			5.75	6	X	X	X	X	X	
BRGWC-45	GW	G	3-2-21	1340			6.17	6	X	X	X	X	X	
BRGWC-47	GW	G	3-2-21	1548			5.59	6	X	X	X	X	X	
BRGWC-25I	GW	G	3-2-21	1708			6.10	6	X	X	X	X	X	

Analyses

Lab Sample Receipt Checklist:
Custody Seals Present/Intact Y N NA
Custody Signatures Present Y N NA
Collector Signature Present Y N NA
Bottles Intact Y N NA
Correct Bottles Y N NA
Sufficient Volume Y N NA
Samples Received on Ice Y N NA
VOA - Headspace Acceptable Y N NA
USDA Regulated Soils Y N NA
Samples in Holding Time Y N NA
Residual Chlorine Present Y N NA
Cl Strips: _____
Sample pH Acceptable Y N NA
pH Strips: _____
Sulfide Present Y N NA
Lead Acetate Strips: _____

LAB USE ONLY:
Lab Sample # / Comments:

(Metals): Fe, K, Mg, Mn, Na

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #:

Samples received via: FEDEX UPS Client Courier Pace Courier

LAB Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: _____
Cooler 1 Temp Upon Receipt: __oC
Cooler 1 Therm Corr. Factor: __oC
Cooler 1 Corrected Temp: __oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	MTJL LAB USE ONLY
Golder	3-3-21 / 0815			Table #:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Acctnum: Template: Prelogin:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	PM: PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: 1 of: 1

CHAIN-OF-CUSTODY Analytical Request Document

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ALL SHADED AREAS are for LAB USE ONLY

Company: Georgia Power - Coal Combustion Residuals	Billing Information:
Address: 2480 Maner Road Atlanta, GA 30339	
Report To: Joju Abraham	Email To: scsinvoices@southernco.com
Copy To: Golder	Site Collection Info/Address: Plant Branch
phone: (404) 506-7239 Email: jabraham@southernco.com	State: Georgia City: Milledgeville Time Zone Collected: [ ]PT [ ]MT [ ]CT [X]ET
Phone: (404) 506-7239 Email: jabraham@southernco.com	Project Name: Plant Branch BCD Network Project # CCR 4th Semi-Annual Pace Profile#
Collected By (print): Travis Martinez, Andrea McClure	Purchase Order # Quote # Pace Project Manager: kevin.herring@pacelabs.com
Collected By (signature):	Turnaround Date Required: Immediately Packed on Ice: [X] Yes [ ] No
	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply) Field Filtered (if applicable): [ ] Yes [ ] No Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Water (WT), Other (OT)

Container Preservative Type **: 1 1

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Lab Project Manager:

Analyses: Metals 6010/6020/7470 - see comments; TDS; Chloride/Fluoride/Sulfate; Radium 226.228

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	pH	# of Ctns	Metals 6010/6020/7470 - see comments	TDS	Chloride/Fluoride/Sulfate	Radium 226.228
BRGWA-12S	GW	G	3-2-21	1150			5.92	5	X	X	X	X
BRGWA-12I	GW	G	3-2-21	0856			6.11	5	X	X	X	X
BRGWA-23S	GW	G	3-2-21	1555			5.75	5	X	X	X	X
BRGWC-45	GW	G	3-2-21	1340			6.17	5	X	X	X	X
BRGWC-47	GW	G	3-2-21	1548			5.59	5	X	X	X	X
BRGWC-25I	GW	G	3-2-21	1708			6.10	5	X	X	X	X

Lab Profile/Line:

Lab Sample Receipt Checklist:
Custody Seals Present/Intact Y N NA
Custody Signatures Present Y N NA
Collector Signature Present Y N NA
Bottles Intact Y N NA
Correct Bottles Y N NA
Sufficient Volume Y N NA
Samples Received on Ice Y N NA
VOA - Headspace Acceptable Y N NA
USDA Regulated Soils Y N NA
Samples in Holding Time Y N NA
Residual Chlorine Present Y N NA
Cl Strips: _____
Sample pH Acceptable Y N NA
pH Strips: _____
Sulfide Present Y N NA
Lead Acetate Strips: _____

LAB USE ONLY:
Lab Sample # / Comments:

(Metals): As, B, Ba, Be, Ca, Cd, Co, Cr, Mo, Pb, Sb, Se, Li, Tl, Hg

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #:

Samples received via: FEDEX UPS Client Courier Pace Courier

LAB Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: _____
Cooler 1 Temp Upon Receipt: __oC
Cooler 1 Therm Corr. Factor: __oC
Cooler 1 Corrected Temp: __oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	MTJL LAB USE ONLY
Golder	3-3-21 / 0815			Table #:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Acctnum: Template: Prelogin:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	PM: PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: 1 of: 1

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

September 30, 2020

Joju Abraham
Georgia Power-CCR
2480 Maner Road
Atlanta, GA 30339

RE: Project: BRANCH BCD NETWORK
Pace Project No.: 92495653

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between September 16, 2020 and September 18, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte
- Pace Analytical Services - Peachtree Corners, GA

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kevin Herring
kevin.herring@pacelabs.com
1(704)875-9092
HORIZON Database Administrator

Enclosures

cc: Daniela Herrera, Golder
Ben Hodges, Georgia Power
Jimmy Jones, Golder Associates Inc.
Kristen Jurinko
Julie Lehrman, Golder Associates Inc.
Ms. Lauren Petty, Southern Co. Services
Carolyn Powrozek, Golder
Dawn Prell, Golder Associates Inc.
Tim Richards, Golder Associates - Atlanta
Brian Steele, Golder

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

CERTIFICATIONS

Project: BRANCH BCD NETWORK
Pace Project No.: 92495653

Pace Analytical Services Charlotte
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

Pace Analytical Services Asheville
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners
110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
Georgia DW Microbiology Certification #: 812
North Carolina Certification #: 381
South Carolina Certification #: 98011001
Virginia Certification #: 460204

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110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE SUMMARY

Project: BRANCH BCD NETWORK
Pace Project No.: 92495653

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92495653001	**BRGWA-12S**	Water	09/15/20 13:15	09/16/20 09:45
92495653002	**BRGWA-12I**	Water	09/15/20 11:13	09/16/20 09:45
92495653003	**BRGWA-23S**	Water	09/15/20 16:10	09/16/20 09:45
92495653004	**BRGWC-25I**	Water	09/15/20 17:20	09/16/20 09:45
92495653005	**BRGWC-29I**	Water	09/15/20 17:41	09/16/20 09:45
92495653006	**BRGWC-32S**	Water	09/16/20 09:16	09/17/20 10:00
92495653007	**BRGWC-30I**	Water	09/16/20 10:16	09/17/20 10:00
92495653008	**BRGWC-47**	Water	09/16/20 11:39	09/17/20 10:00
92495653009	**BRGWC-45**	Water	09/16/20 13:07	09/17/20 10:00
92495653010	**BRGWC-27I**	Water	09/16/20 14:35	09/17/20 10:00
92495653011	**DUP-1**	Water	09/16/20 00:00	09/17/20 10:00
92495653012	**EB-1**	Water	09/16/20 15:11	09/17/20 10:00
92495653013	**BRGWC-50**	Water	09/17/20 10:24	09/18/20 10:15
92495653014	**BRGWC-52I**	Water	09/17/20 10:07	09/18/20 10:15
92495653015	**FB-2**	Water	09/17/20 10:20	09/18/20 10:15

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SAMPLE ANALYTE COUNT

Project: BRANCH BCD NETWORK
Pace Project No.: 92495653

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92495653001	**BRGWA-12S**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92495653002	**BRGWA-12I**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92495653003	**BRGWA-23S**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92495653004	**BRGWC-25I**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92495653005	**BRGWC-29I**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92495653006	**BRGWC-32S**	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92495653007	**BRGWC-30I**	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	BRJ	3
92495653008	**BRGWC-47**	EPA 6010D	DRB	1
		EPA 6020B	CW1	13

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SAMPLE ANALYTE COUNT

Project: BRANCH BCD NETWORK
Pace Project No.: 92495653

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	BRJ	3
92495653009	**BRGWC-45**	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	BRJ	3
92495653010	**BRGWC-27I**	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	BRJ	3
92495653011	**DUP-1**	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	BRJ	3
92495653012	**EB-1**	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	BRJ	3
92495653013	**BRGWC-50**	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	FFP	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	BRJ	3
92495653014	**BRGWC-52I**	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	FFP	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	BRJ	3
92495653015	**FB-2**	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	FFP	1
		SM 2450C-2011	ALW	1

REPORT OF LABORATORY ANALYSIS

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Peachtree Corners, GA 30092
(770)734-4200

SAMPLE ANALYTE COUNT

Project: BRANCH BCD NETWORK
Pace Project No.: 92495653

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 300.0 Rev 2.1 1993	BRJ	3

PASI-A = Pace Analytical Services - Asheville
PASI-C = Pace Analytical Services - Charlotte
PASI-GA = Pace Analytical Services - Peachtree Corners, GA

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Peachtree Corners, GA 30092
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SUMMARY OF DETECTION

Project: BRANCH BCD NETWORK
Pace Project No.: 92495653

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92495653001	**BRGWA-12S**					
	pH	6.00	Std. Units		09/22/20 12:29	
EPA 6010D	Calcium	5.7	mg/L	1.0	09/17/20 17:55	
EPA 6020B	Barium	0.058	mg/L	0.010	09/21/20 15:38	
EPA 6020B	Chromium	0.0025J	mg/L	0.010	09/21/20 15:38	
SM 2450C-2011	Total Dissolved Solids	60.0	mg/L	10.0	09/16/20 14:22	
EPA 300.0 Rev 2.1 1993	Chloride	3.5	mg/L	1.0	09/18/20 20:02	
92495653002	**BRGWA-12I**					
	pH	6.01	Std. Units		09/22/20 12:29	
EPA 6010D	Calcium	14.5	mg/L	1.0	09/17/20 18:21	
EPA 6020B	Antimony	0.010	mg/L	0.0030	09/21/20 16:01	
EPA 6020B	Barium	0.059	mg/L	0.010	09/21/20 16:01	
EPA 6020B	Boron	0.0071J	mg/L	0.10	09/21/20 16:01	
EPA 6020B	Chromium	0.00096J	mg/L	0.010	09/21/20 16:01	
EPA 6020B	Lithium	0.0037J	mg/L	0.030	09/21/20 16:01	
SM 2450C-2011	Total Dissolved Solids	95.0	mg/L	10.0	09/16/20 14:22	
EPA 300.0 Rev 2.1 1993	Chloride	2.4	mg/L	1.0	09/18/20 20:17	
EPA 300.0 Rev 2.1 1993	Fluoride	0.062J	mg/L	0.10	09/18/20 20:17	
EPA 300.0 Rev 2.1 1993	Sulfate	1.7	mg/L	1.0	09/18/20 20:17	
92495653003	**BRGWA-23S**					
	pH	5.72	Std. Units		09/22/20 12:29	
EPA 6010D	Calcium	10.7	mg/L	1.0	09/17/20 18:25	
EPA 6020B	Antimony	0.00033J	mg/L	0.0030	09/21/20 16:06	
EPA 6020B	Barium	0.086	mg/L	0.010	09/21/20 16:06	
EPA 6020B	Boron	0.033J	mg/L	0.10	09/21/20 16:06	
EPA 6020B	Chromium	0.0019J	mg/L	0.010	09/21/20 16:06	
EPA 6020B	Cobalt	0.00076J	mg/L	0.0050	09/21/20 16:06	
EPA 6020B	Lithium	0.011J	mg/L	0.030	09/21/20 16:06	
EPA 6020B	Selenium	0.0028J	mg/L	0.010	09/21/20 16:06	
SM 2450C-2011	Total Dissolved Solids	109	mg/L	10.0	09/16/20 14:23	
EPA 300.0 Rev 2.1 1993	Chloride	3.1	mg/L	1.0	09/23/20 23:18	
EPA 300.0 Rev 2.1 1993	Sulfate	41.5	mg/L	1.0	09/23/20 23:18	
92495653004	**BRGWC-25I**					
	pH	6.00	Std. Units		09/22/20 12:29	
EPA 6010D	Calcium	40.1	mg/L	1.0	09/17/20 18:29	
EPA 6020B	Barium	0.024	mg/L	0.010	09/21/20 16:12	
EPA 6020B	Boron	1.2	mg/L	0.10	09/21/20 16:12	
EPA 6020B	Cobalt	0.0035J	mg/L	0.0050	09/21/20 16:12	
EPA 6020B	Molybdenum	0.00080J	mg/L	0.010	09/21/20 16:12	
SM 2450C-2011	Total Dissolved Solids	272	mg/L	10.0	09/16/20 14:23	
EPA 300.0 Rev 2.1 1993	Chloride	4.9	mg/L	1.0	09/18/20 20:32	
EPA 300.0 Rev 2.1 1993	Fluoride	0.15	mg/L	0.10	09/18/20 20:32	
EPA 300.0 Rev 2.1 1993	Sulfate	126	mg/L	3.0	09/19/20 08:42	
92495653005	**BRGWC-29I**					
	pH	4.53	Std. Units		09/22/20 12:29	
EPA 6010D	Calcium	55.1	mg/L	1.0	09/17/20 18:34	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SUMMARY OF DETECTION

Project: BRANCH BCD NETWORK
Pace Project No.: 92495653

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92495653005	**BRGWC-29I**					
EPA 6020B	Barium	0.017	mg/L	0.010	09/21/20 16:18	
EPA 6020B	Beryllium	0.00071J	mg/L	0.0030	09/21/20 16:18	
EPA 6020B	Boron	1.1	mg/L	0.10	09/21/20 16:18	
EPA 6020B	Cobalt	0.0064	mg/L	0.0050	09/21/20 16:18	
EPA 6020B	Lead	0.00029J	mg/L	0.0050	09/21/20 16:18	
EPA 6020B	Lithium	0.0030J	mg/L	0.030	09/21/20 16:18	
EPA 6020B	Thallium	0.00016J	mg/L	0.0010	09/21/20 16:18	
SM 2450C-2011	Total Dissolved Solids	281	mg/L	10.0	09/16/20 14:23	
EPA 300.0 Rev 2.1 1993	Chloride	5.5	mg/L	1.0	09/18/20 20:46	M1
EPA 300.0 Rev 2.1 1993	Fluoride	0.057J	mg/L	0.10	09/18/20 20:46	M1
EPA 300.0 Rev 2.1 1993	Sulfate	241	mg/L	5.0	09/19/20 08:56	
92495653006	**BRGWC-32S**					
	pH	5.79	Std. Units		09/22/20 12:29	
EPA 6010D	Calcium	43.1	mg/L	1.0	09/22/20 20:40	M1
EPA 6020B	Barium	0.024	mg/L	0.010	09/22/20 17:02	
EPA 6020B	Boron	1.4	mg/L	0.10	09/22/20 17:02	
EPA 6020B	Chromium	0.0025J	mg/L	0.010	09/22/20 17:02	
EPA 6020B	Lithium	0.0022J	mg/L	0.030	09/22/20 17:02	
EPA 6020B	Selenium	0.12	mg/L	0.010	09/22/20 17:02	
SM 2450C-2011	Total Dissolved Solids	428	mg/L	10.0	09/17/20 15:20	
EPA 300.0 Rev 2.1 1993	Chloride	5.6	mg/L	1.0	09/19/20 00:00	
EPA 300.0 Rev 2.1 1993	Sulfate	255	mg/L	5.0	09/19/20 09:55	
92495653007	**BRGWC-30I**					
	pH	6.29	Std. Units		09/22/20 12:29	
EPA 6010D	Calcium	106	mg/L	1.0	09/22/20 20:57	
EPA 6020B	Barium	0.022	mg/L	0.010	09/22/20 17:08	
EPA 6020B	Boron	1.7	mg/L	0.10	09/22/20 17:08	
EPA 6020B	Chromium	0.014	mg/L	0.010	09/22/20 17:08	
EPA 6020B	Cobalt	0.00080J	mg/L	0.0050	09/22/20 17:08	
EPA 6020B	Lead	0.00011J	mg/L	0.0050	09/22/20 17:08	
EPA 6020B	Lithium	0.016J	mg/L	0.030	09/22/20 17:08	
EPA 6020B	Molybdenum	0.0022J	mg/L	0.010	09/22/20 17:08	
SM 2450C-2011	Total Dissolved Solids	634	mg/L	10.0	09/17/20 15:20	
EPA 300.0 Rev 2.1 1993	Chloride	4.4	mg/L	1.0	09/19/20 15:53	
EPA 300.0 Rev 2.1 1993	Fluoride	0.13	mg/L	0.10	09/19/20 15:53	
EPA 300.0 Rev 2.1 1993	Sulfate	334	mg/L	7.0	09/20/20 02:34	M6
92495653008	**BRGWC-47**					
	pH	5.76	Std. Units		09/22/20 12:29	
EPA 6010D	Calcium	309	mg/L	10.0	09/23/20 12:15	
EPA 6020B	Antimony	0.00035J	mg/L	0.0030	09/22/20 17:13	B
EPA 6020B	Barium	0.028	mg/L	0.010	09/22/20 17:13	
EPA 6020B	Boron	0.47	mg/L	0.10	09/22/20 17:13	
EPA 6020B	Cobalt	0.00053J	mg/L	0.0050	09/22/20 17:13	
EPA 6020B	Lead	0.000066J	mg/L	0.0050	09/22/20 17:13	
EPA 6020B	Lithium	0.039	mg/L	0.030	09/22/20 17:13	
EPA 6020B	Selenium	0.0020J	mg/L	0.010	09/22/20 17:13	

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SUMMARY OF DETECTION

Project: BRANCH BCD NETWORK
Pace Project No.: 92495653

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92495653008	**BRGWC-47**					
SM 2450C-2011	Total Dissolved Solids	2090	mg/L	20.0	09/21/20 16:27	
EPA 300.0 Rev 2.1 1993	Chloride	4.1	mg/L	1.0	09/19/20 16:38	
EPA 300.0 Rev 2.1 1993	Sulfate	1360	mg/L	27.0	09/20/20 03:48	
92495653009	**BRGWC-45**					
	pH	5.27	Std. Units		09/22/20 12:29	
EPA 6010D	Calcium	39.7	mg/L	1.0	09/22/20 21:06	
EPA 6020B	Antimony	0.0012J	mg/L	0.0030	09/22/20 17:19	B
EPA 6020B	Barium	0.085	mg/L	0.010	09/22/20 17:19	
EPA 6020B	Boron	0.028J	mg/L	0.10	09/22/20 17:19	
EPA 6020B	Chromium	0.0014J	mg/L	0.010	09/22/20 17:19	
EPA 6020B	Cobalt	0.0049J	mg/L	0.0050	09/22/20 17:19	
EPA 6020B	Lead	0.000053J	mg/L	0.0050	09/22/20 17:19	
EPA 6020B	Lithium	0.0036J	mg/L	0.030	09/22/20 17:19	
SM 2450C-2011	Total Dissolved Solids	275	mg/L	10.0	09/17/20 15:20	
EPA 300.0 Rev 2.1 1993	Chloride	54.9	mg/L	1.0	09/19/20 16:53	
EPA 300.0 Rev 2.1 1993	Fluoride	0.052J	mg/L	0.10	09/19/20 16:53	
EPA 300.0 Rev 2.1 1993	Sulfate	103	mg/L	2.0	09/20/20 04:03	
92495653010	**BRGWC-27I**					
	pH	5.81	Std. Units		09/22/20 12:29	
EPA 6010D	Calcium	62.5	mg/L	1.0	09/22/20 21:10	
EPA 6020B	Barium	0.016	mg/L	0.010	09/22/20 17:25	
EPA 6020B	Beryllium	0.00011J	mg/L	0.0030	09/22/20 17:25	
EPA 6020B	Boron	1.2	mg/L	0.10	09/22/20 17:25	
EPA 6020B	Cobalt	0.0080	mg/L	0.0050	09/22/20 17:25	
EPA 6020B	Lithium	0.0014J	mg/L	0.030	09/22/20 17:25	
EPA 6020B	Selenium	0.0042J	mg/L	0.010	09/22/20 17:25	
SM 2450C-2011	Total Dissolved Solids	301	mg/L	10.0	09/17/20 15:20	
EPA 300.0 Rev 2.1 1993	Chloride	5.4	mg/L	1.0	09/19/20 17:08	
EPA 300.0 Rev 2.1 1993	Fluoride	0.15	mg/L	0.10	09/19/20 17:08	
EPA 300.0 Rev 2.1 1993	Sulfate	190	mg/L	4.0	09/20/20 04:17	
92495653011	**DUP-1**					
EPA 6010D	Calcium	108	mg/L	1.0	09/22/20 21:23	
EPA 6020B	Barium	0.022	mg/L	0.010	09/22/20 17:31	
EPA 6020B	Boron	1.7	mg/L	0.10	09/22/20 17:31	
EPA 6020B	Cobalt	0.00065J	mg/L	0.0050	09/22/20 17:31	
EPA 6020B	Lithium	0.016J	mg/L	0.030	09/22/20 17:31	
EPA 6020B	Molybdenum	0.00076J	mg/L	0.010	09/22/20 17:31	
SM 2450C-2011	Total Dissolved Solids	622	mg/L	10.0	09/18/20 09:58	
EPA 300.0 Rev 2.1 1993	Chloride	4.4	mg/L	1.0	09/19/20 17:23	
EPA 300.0 Rev 2.1 1993	Fluoride	0.13	mg/L	0.10	09/19/20 17:23	
EPA 300.0 Rev 2.1 1993	Sulfate	343	mg/L	7.0	09/20/20 04:32	
92495653012	**EB-1**					
EPA 6020B	Boron	0.0066J	mg/L	0.10	09/22/20 17:36	

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SUMMARY OF DETECTION

Project: BRANCH BCD NETWORK
Pace Project No.: 92495653

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92495653013	**BRGWC-50**					
	pH	4.41	Std. Units		09/22/20 12:29	
EPA 6010D	Calcium	206	mg/L	1.0	09/22/20 22:02	
EPA 6020B	Antimony	0.00041J	mg/L	0.0030	09/23/20 20:05	
EPA 6020B	Barium	0.020	mg/L	0.010	09/23/20 20:05	
EPA 6020B	Beryllium	0.0065	mg/L	0.0030	09/24/20 17:33	
EPA 6020B	Boron	0.36	mg/L	0.10	09/24/20 17:33	
EPA 6020B	Cadmium	0.021	mg/L	0.0025	09/23/20 20:05	
EPA 6020B	Chromium	0.00098J	mg/L	0.010	09/23/20 20:05	
EPA 6020B	Cobalt	1.4	mg/L	0.050	09/24/20 17:07	
EPA 6020B	Lead	0.00015J	mg/L	0.0050	09/23/20 20:05	
EPA 6020B	Lithium	0.052	mg/L	0.030	09/24/20 17:33	
SM 2450C-2011	Total Dissolved Solids	1910	mg/L	50.0	09/24/20 11:49	D6,H1
EPA 300.0 Rev 2.1 1993	Chloride	20.1	mg/L	1.0	09/22/20 01:20	
EPA 300.0 Rev 2.1 1993	Fluoride	0.46	mg/L	0.10	09/22/20 01:20	
EPA 300.0 Rev 2.1 1993	Sulfate	1330	mg/L	26.0	09/22/20 14:58	
92495653014	**BRGWC-52I**					
	pH	6.12	Std. Units		09/22/20 12:29	
EPA 6010D	Calcium	35.4	mg/L	1.0	09/22/20 22:15	
EPA 6020B	Barium	0.020	mg/L	0.010	09/23/20 20:10	
EPA 6020B	Boron	1.9	mg/L	0.10	09/24/20 14:08	
EPA 6020B	Cobalt	0.00046J	mg/L	0.0050	09/23/20 20:10	
EPA 6020B	Lithium	0.0058J	mg/L	0.030	09/24/20 14:08	
EPA 6020B	Molybdenum	0.00070J	mg/L	0.010	09/23/20 20:10	
SM 2450C-2011	Total Dissolved Solids	329	mg/L	10.0	09/21/20 16:30	
EPA 300.0 Rev 2.1 1993	Chloride	6.3	mg/L	1.0	09/22/20 02:04	
EPA 300.0 Rev 2.1 1993	Fluoride	0.074J	mg/L	0.10	09/22/20 02:04	
EPA 300.0 Rev 2.1 1993	Sulfate	165	mg/L	4.0	09/22/20 15:13	
92495653015	**FB-2**					
EPA 6020B	Boron	0.0097J	mg/L	0.10	09/24/20 14:14	

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ANALYTICAL RESULTS

Project: BRANCH BCD NETWORK
Pace Project No.: 92495653

Sample: BRGWA-12S **Lab ID: 92495653001** Collected: 09/15/20 13:15 Received: 09/16/20 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
pH	**6.00**	Std. Units			1		09/22/20 12:29		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**5.7**	mg/L	1.0	0.070	1	09/16/20 15:14	09/17/20 17:55	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00028	1	09/16/20 18:16	09/21/20 15:38	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	09/16/20 18:16	09/21/20 15:38	7440-38-2	
Barium	**0.058**	mg/L	0.010	0.00071	1	09/16/20 18:16	09/21/20 15:38	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	09/16/20 18:16	09/21/20 15:38	7440-41-7	
Boron	ND	mg/L	0.10	0.0052	1	09/16/20 18:16	09/21/20 15:38	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00012	1	09/16/20 18:16	09/21/20 15:38	7440-43-9	
Chromium	**0.0025J**	mg/L	0.010	0.00055	1	09/16/20 18:16	09/21/20 15:38	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	09/16/20 18:16	09/21/20 15:38	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	09/16/20 18:16	09/21/20 15:38	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	09/16/20 18:16	09/21/20 15:38	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	09/16/20 18:16	09/21/20 15:38	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	09/16/20 18:16	09/21/20 15:38	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	09/16/20 18:16	09/21/20 15:38	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00050	0.000078	1	09/18/20 08:30	09/18/20 14:07	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**60.0**	mg/L	10.0	10.0	1		09/16/20 14:22		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**3.5**	mg/L	1.0	0.60	1		09/18/20 20:02	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/18/20 20:02	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		09/18/20 20:02	14808-79-8	

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ANALYTICAL RESULTS

Project: BRANCH BCD NETWORK
Pace Project No.: 92495653

Sample: BRGWA-12I **Lab ID: 92495653002** Collected: 09/15/20 11:13 Received: 09/16/20 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
pH	**6.01**	Std. Units			1		09/22/20 12:29		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**14.5**	mg/L	1.0	0.070	1	09/16/20 15:14	09/17/20 18:21	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.010**	mg/L	0.0030	0.00028	1	09/16/20 18:16	09/21/20 16:01	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	09/16/20 18:16	09/21/20 16:01	7440-38-2	
Barium	**0.059**	mg/L	0.010	0.00071	1	09/16/20 18:16	09/21/20 16:01	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	09/16/20 18:16	09/21/20 16:01	7440-41-7	
Boron	**0.0071J**	mg/L	0.10	0.0052	1	09/16/20 18:16	09/21/20 16:01	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00012	1	09/16/20 18:16	09/21/20 16:01	7440-43-9	
Chromium	**0.00096J**	mg/L	0.010	0.00055	1	09/16/20 18:16	09/21/20 16:01	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	09/16/20 18:16	09/21/20 16:01	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	09/16/20 18:16	09/21/20 16:01	7439-92-1	
Lithium	**0.0037J**	mg/L	0.030	0.00081	1	09/16/20 18:16	09/21/20 16:01	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	09/16/20 18:16	09/21/20 16:01	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	09/16/20 18:16	09/21/20 16:01	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	09/16/20 18:16	09/21/20 16:01	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00050	0.000078	1	09/18/20 08:30	09/18/20 14:09	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**95.0**	mg/L	10.0	10.0	1		09/16/20 14:22		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**2.4**	mg/L	1.0	0.60	1		09/18/20 20:17	16887-00-6	
Fluoride	**0.062J**	mg/L	0.10	0.050	1		09/18/20 20:17	16984-48-8	
Sulfate	**1.7**	mg/L	1.0	0.50	1		09/18/20 20:17	14808-79-8	

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ANALYTICAL RESULTS

Project: BRANCH BCD NETWORK
Pace Project No.: 92495653

Sample: BRGWA-23S **Lab ID: 92495653003** Collected: 09/15/20 16:10 Received: 09/16/20 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
pH	**5.72**	Std. Units			1		09/22/20 12:29		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**10.7**	mg/L	1.0	0.070	1	09/16/20 15:14	09/17/20 18:25	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.00033J**	mg/L	0.0030	0.00028	1	09/16/20 18:16	09/21/20 16:06	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	09/16/20 18:16	09/21/20 16:06	7440-38-2	
Barium	**0.086**	mg/L	0.010	0.00071	1	09/16/20 18:16	09/21/20 16:06	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	09/16/20 18:16	09/21/20 16:06	7440-41-7	
Boron	**0.033J**	mg/L	0.10	0.0052	1	09/16/20 18:16	09/21/20 16:06	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00012	1	09/16/20 18:16	09/21/20 16:06	7440-43-9	
Chromium	**0.0019J**	mg/L	0.010	0.00055	1	09/16/20 18:16	09/21/20 16:06	7440-47-3	
Cobalt	**0.00076J**	mg/L	0.0050	0.00038	1	09/16/20 18:16	09/21/20 16:06	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	09/16/20 18:16	09/21/20 16:06	7439-92-1	
Lithium	**0.011J**	mg/L	0.030	0.00081	1	09/16/20 18:16	09/21/20 16:06	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	09/16/20 18:16	09/21/20 16:06	7439-98-7	
Selenium	**0.0028J**	mg/L	0.010	0.0016	1	09/16/20 18:16	09/21/20 16:06	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	09/16/20 18:16	09/21/20 16:06	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00050	0.000078	1	09/18/20 08:30	09/18/20 14:23	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**109**	mg/L	10.0	10.0	1		09/16/20 14:23		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**3.1**	mg/L	1.0	0.60	1		09/23/20 23:18	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/23/20 23:18	16984-48-8	
Sulfate	**41.5**	mg/L	1.0	0.50	1		09/23/20 23:18	14808-79-8	

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ANALYTICAL RESULTS

Project: BRANCH BCD NETWORK
Pace Project No.: 92495653

Sample: BRGWC-25I **Lab ID: 92495653004** Collected: 09/15/20 17:20 Received: 09/16/20 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
pH	**6.00**	Std. Units			1		09/22/20 12:29		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**40.1**	mg/L	1.0	0.070	1	09/16/20 15:14	09/17/20 18:29	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00028	1	09/16/20 18:16	09/21/20 16:12	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	09/16/20 18:16	09/21/20 16:12	7440-38-2	
Barium	**0.024**	mg/L	0.010	0.00071	1	09/16/20 18:16	09/21/20 16:12	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	09/16/20 18:16	09/21/20 16:12	7440-41-7	
Boron	**1.2**	mg/L	0.10	0.0052	1	09/16/20 18:16	09/21/20 16:12	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00012	1	09/16/20 18:16	09/21/20 16:12	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	09/16/20 18:16	09/21/20 16:12	7440-47-3	
Cobalt	**0.0035J**	mg/L	0.0050	0.00038	1	09/16/20 18:16	09/21/20 16:12	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	09/16/20 18:16	09/21/20 16:12	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	09/16/20 18:16	09/21/20 16:12	7439-93-2	
Molybdenum	**0.00080J**	mg/L	0.010	0.00069	1	09/16/20 18:16	09/21/20 16:12	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	09/16/20 18:16	09/21/20 16:12	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	09/16/20 18:16	09/21/20 16:12	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00050	0.000078	1	09/18/20 08:30	09/18/20 14:26	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**272**	mg/L	10.0	10.0	1		09/16/20 14:23		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**4.9**	mg/L	1.0	0.60	1		09/18/20 20:32	16887-00-6	
Fluoride	**0.15**	mg/L	0.10	0.050	1		09/18/20 20:32	16984-48-8	
Sulfate	**126**	mg/L	3.0	1.5	3		09/19/20 08:42	14808-79-8	

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(770)734-4200

ANALYTICAL RESULTS

Project: BRANCH BCD NETWORK
Pace Project No.: 92495653

Sample: BRGWC-29I **Lab ID: 92495653005** Collected: 09/15/20 17:41 Received: 09/16/20 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
pH	**4.53**	Std. Units			1		09/22/20 12:29		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**55.1**	mg/L	1.0	0.070	1	09/16/20 15:14	09/17/20 18:34	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00028	1	09/16/20 18:16	09/21/20 16:18	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	09/16/20 18:16	09/21/20 16:18	7440-38-2	
Barium	**0.017**	mg/L	0.010	0.00071	1	09/16/20 18:16	09/21/20 16:18	7440-39-3	
Beryllium	**0.00071J**	mg/L	0.0030	0.000046	1	09/16/20 18:16	09/21/20 16:18	7440-41-7	
Boron	**1.1**	mg/L	0.10	0.0052	1	09/16/20 18:16	09/21/20 16:18	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00012	1	09/16/20 18:16	09/21/20 16:18	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	09/16/20 18:16	09/21/20 16:18	7440-47-3	
Cobalt	**0.0064**	mg/L	0.0050	0.00038	1	09/16/20 18:16	09/21/20 16:18	7440-48-4	
Lead	**0.00029J**	mg/L	0.0050	0.000036	1	09/16/20 18:16	09/21/20 16:18	7439-92-1	
Lithium	**0.0030J**	mg/L	0.030	0.00081	1	09/16/20 18:16	09/21/20 16:18	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	09/16/20 18:16	09/21/20 16:18	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	09/16/20 18:16	09/21/20 16:18	7782-49-2	
Thallium	**0.00016J**	mg/L	0.0010	0.00014	1	09/16/20 18:16	09/21/20 16:18	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00050	0.000078	1	09/18/20 08:30	09/18/20 14:28	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**281**	mg/L	10.0	10.0	1		09/16/20 14:23		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**5.5**	mg/L	1.0	0.60	1		09/18/20 20:46	16887-00-6	M1
Fluoride	**0.057J**	mg/L	0.10	0.050	1		09/18/20 20:46	16984-48-8	M1
Sulfate	**241**	mg/L	5.0	2.5	5		09/19/20 08:56	14808-79-8	

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ANALYTICAL RESULTS

Project: BRANCH BCD NETWORK
Pace Project No.: 92495653

Sample: BRGWC-32S **Lab ID: 92495653006** Collected: 09/16/20 09:16 Received: 09/17/20 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
pH	**5.79**	Std. Units			1		09/22/20 12:29		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**43.1**	mg/L	1.0	0.070	1	09/22/20 14:15	09/22/20 20:40	7440-70-2	M1
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00028	1	09/18/20 11:00	09/22/20 17:02	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	09/18/20 11:00	09/22/20 17:02	7440-38-2	
Barium	**0.024**	mg/L	0.010	0.00071	1	09/18/20 11:00	09/22/20 17:02	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	09/18/20 11:00	09/22/20 17:02	7440-41-7	
Boron	**1.4**	mg/L	0.10	0.0052	1	09/18/20 11:00	09/22/20 17:02	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00012	1	09/18/20 11:00	09/22/20 17:02	7440-43-9	
Chromium	**0.0025J**	mg/L	0.010	0.00055	1	09/18/20 11:00	09/22/20 17:02	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	09/18/20 11:00	09/22/20 17:02	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	09/18/20 11:00	09/22/20 17:02	7439-92-1	
Lithium	**0.0022J**	mg/L	0.030	0.00081	1	09/18/20 11:00	09/22/20 17:02	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	09/18/20 11:00	09/22/20 17:02	7439-98-7	
Selenium	**0.12**	mg/L	0.010	0.0016	1	09/18/20 11:00	09/22/20 17:02	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	09/18/20 11:00	09/22/20 17:02	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00050	0.000078	1	09/18/20 08:30	09/18/20 14:30	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**428**	mg/L	10.0	10.0	1		09/17/20 15:20		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**5.6**	mg/L	1.0	0.60	1		09/19/20 00:00	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/19/20 00:00	16984-48-8	
Sulfate	**255**	mg/L	5.0	2.5	5		09/19/20 09:55	14808-79-8	

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ANALYTICAL RESULTS

Project: BRANCH BCD NETWORK
Pace Project No.: 92495653

Sample: BRGWC-30I **Lab ID: 92495653007** Collected: 09/16/20 10:16 Received: 09/17/20 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
pH	**6.29**	Std. Units			1		09/22/20 12:29		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**106**	mg/L	1.0	0.070	1	09/22/20 14:15	09/22/20 20:57	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00028	1	09/18/20 11:00	09/22/20 17:08	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	09/18/20 11:00	09/22/20 17:08	7440-38-2	
Barium	**0.022**	mg/L	0.010	0.00071	1	09/18/20 11:00	09/22/20 17:08	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	09/18/20 11:00	09/22/20 17:08	7440-41-7	
Boron	**1.7**	mg/L	0.10	0.0052	1	09/18/20 11:00	09/22/20 17:08	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00012	1	09/18/20 11:00	09/22/20 17:08	7440-43-9	
Chromium	**0.014**	mg/L	0.010	0.00055	1	09/18/20 11:00	09/22/20 17:08	7440-47-3	
Cobalt	**0.00080J**	mg/L	0.0050	0.00038	1	09/18/20 11:00	09/22/20 17:08	7440-48-4	
Lead	**0.00011J**	mg/L	0.0050	0.000036	1	09/18/20 11:00	09/22/20 17:08	7439-92-1	
Lithium	**0.016J**	mg/L	0.030	0.00081	1	09/18/20 11:00	09/22/20 17:08	7439-93-2	
Molybdenum	**0.0022J**	mg/L	0.010	0.00069	1	09/18/20 11:00	09/22/20 17:08	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	09/18/20 11:00	09/22/20 17:08	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	09/18/20 11:00	09/22/20 17:08	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00050	0.000078	1	09/18/20 08:30	09/18/20 14:33	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**634**	mg/L	10.0	10.0	1		09/17/20 15:20		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**4.4**	mg/L	1.0	0.60	1		09/19/20 15:53	16887-00-6	
Fluoride	**0.13**	mg/L	0.10	0.050	1		09/19/20 15:53	16984-48-8	
Sulfate	**334**	mg/L	7.0	3.5	7		09/20/20 02:34	14808-79-8	M6

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ANALYTICAL RESULTS

Project: BRANCH BCD NETWORK
Pace Project No.: 92495653

Sample: BRGWC-47 **Lab ID: 92495653008** Collected: 09/16/20 11:39 Received: 09/17/20 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
pH	**5.76**	Std. Units			1		09/22/20 12:29		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**309**	mg/L	10.0	0.70	10	09/22/20 14:15	09/23/20 12:15	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.00035J**	mg/L	0.0030	0.00028	1	09/18/20 11:00	09/22/20 17:13	7440-36-0	B
Arsenic	ND	mg/L	0.0050	0.00078	1	09/18/20 11:00	09/22/20 17:13	7440-38-2	
Barium	**0.028**	mg/L	0.010	0.00071	1	09/18/20 11:00	09/22/20 17:13	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	09/18/20 11:00	09/22/20 17:13	7440-41-7	
Boron	**0.47**	mg/L	0.10	0.0052	1	09/18/20 11:00	09/22/20 17:13	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00012	1	09/18/20 11:00	09/22/20 17:13	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	09/18/20 11:00	09/22/20 17:13	7440-47-3	
Cobalt	**0.00053J**	mg/L	0.0050	0.00038	1	09/18/20 11:00	09/22/20 17:13	7440-48-4	
Lead	**0.000066J**	mg/L	0.0050	0.000036	1	09/18/20 11:00	09/22/20 17:13	7439-92-1	
Lithium	**0.039**	mg/L	0.030	0.00081	1	09/18/20 11:00	09/22/20 17:13	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	09/18/20 11:00	09/22/20 17:13	7439-98-7	
Selenium	**0.0020J**	mg/L	0.010	0.0016	1	09/18/20 11:00	09/22/20 17:13	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	09/18/20 11:00	09/22/20 17:13	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00050	0.000078	1	09/18/20 08:30	09/18/20 14:35	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**2090**	mg/L	20.0	20.0	1		09/21/20 16:27		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**4.1**	mg/L	1.0	0.60	1		09/19/20 16:38	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/19/20 16:38	16984-48-8	
Sulfate	**1360**	mg/L	27.0	13.5	27		09/20/20 03:48	14808-79-8	

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ANALYTICAL RESULTS

Project: BRANCH BCD NETWORK
Pace Project No.: 92495653

Sample: BRGWC-45 **Lab ID: 92495653009** Collected: 09/16/20 13:07 Received: 09/17/20 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
pH	**5.27**	Std. Units			1		09/22/20 12:29		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**39.7**	mg/L	1.0	0.070	1	09/22/20 14:15	09/22/20 21:06	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.0012J**	mg/L	0.0030	0.00028	1	09/18/20 11:00	09/22/20 17:19	7440-36-0	B
Arsenic	ND	mg/L	0.0050	0.00078	1	09/18/20 11:00	09/22/20 17:19	7440-38-2	
Barium	**0.085**	mg/L	0.010	0.00071	1	09/18/20 11:00	09/22/20 17:19	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	09/18/20 11:00	09/22/20 17:19	7440-41-7	
Boron	**0.028J**	mg/L	0.10	0.0052	1	09/18/20 11:00	09/22/20 17:19	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00012	1	09/18/20 11:00	09/22/20 17:19	7440-43-9	
Chromium	**0.0014J**	mg/L	0.010	0.00055	1	09/18/20 11:00	09/22/20 17:19	7440-47-3	
Cobalt	**0.0049J**	mg/L	0.0050	0.00038	1	09/18/20 11:00	09/22/20 17:19	7440-48-4	
Lead	**0.000053J**	mg/L	0.0050	0.000036	1	09/18/20 11:00	09/22/20 17:19	7439-92-1	
Lithium	**0.0036J**	mg/L	0.030	0.00081	1	09/18/20 11:00	09/22/20 17:19	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	09/18/20 11:00	09/22/20 17:19	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	09/18/20 11:00	09/22/20 17:19	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	09/18/20 11:00	09/22/20 17:19	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00050	0.000078	1	09/18/20 08:30	09/18/20 14:37	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**275**	mg/L	10.0	10.0	1		09/17/20 15:20		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**54.9**	mg/L	1.0	0.60	1		09/19/20 16:53	16887-00-6	
Fluoride	**0.052J**	mg/L	0.10	0.050	1		09/19/20 16:53	16984-48-8	
Sulfate	**103**	mg/L	2.0	1.0	2		09/20/20 04:03	14808-79-8	

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ANALYTICAL RESULTS

Project: BRANCH BCD NETWORK
Pace Project No.: 92495653

Sample: BRGWC-27I **Lab ID: 92495653010** Collected: 09/16/20 14:35 Received: 09/17/20 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
pH	**5.81**	Std. Units			1		09/22/20 12:29		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**62.5**	mg/L	1.0	0.070	1	09/22/20 14:15	09/22/20 21:10	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00028	1	09/18/20 11:00	09/22/20 17:25	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	09/18/20 11:00	09/22/20 17:25	7440-38-2	
Barium	**0.016**	mg/L	0.010	0.00071	1	09/18/20 11:00	09/22/20 17:25	7440-39-3	
Beryllium	**0.00011J**	mg/L	0.0030	0.000046	1	09/18/20 11:00	09/22/20 17:25	7440-41-7	
Boron	**1.2**	mg/L	0.10	0.0052	1	09/18/20 11:00	09/22/20 17:25	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00012	1	09/18/20 11:00	09/22/20 17:25	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	09/18/20 11:00	09/22/20 17:25	7440-47-3	
Cobalt	**0.0080**	mg/L	0.0050	0.00038	1	09/18/20 11:00	09/22/20 17:25	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	09/18/20 11:00	09/22/20 17:25	7439-92-1	
Lithium	**0.0014J**	mg/L	0.030	0.00081	1	09/18/20 11:00	09/22/20 17:25	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	09/18/20 11:00	09/22/20 17:25	7439-98-7	
Selenium	**0.0042J**	mg/L	0.010	0.0016	1	09/18/20 11:00	09/22/20 17:25	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	09/18/20 11:00	09/22/20 17:25	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00050	0.000078	1	09/18/20 08:30	09/18/20 14:40	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**301**	mg/L	10.0	10.0	1		09/17/20 15:20		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**5.4**	mg/L	1.0	0.60	1		09/19/20 17:08	16887-00-6	
Fluoride	**0.15**	mg/L	0.10	0.050	1		09/19/20 17:08	16984-48-8	
Sulfate	**190**	mg/L	4.0	2.0	4		09/20/20 04:17	14808-79-8	

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Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: BRANCH BCD NETWORK
Pace Project No.: 92495653

Sample: DUP-1 **Lab ID: 92495653011** Collected: 09/16/20 00:00 Received: 09/17/20 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**108**	mg/L	1.0	0.070	1	09/22/20 14:15	09/22/20 21:23	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00028	1	09/18/20 11:00	09/22/20 17:31	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	09/18/20 11:00	09/22/20 17:31	7440-38-2	
Barium	**0.022**	mg/L	0.010	0.00071	1	09/18/20 11:00	09/22/20 17:31	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	09/18/20 11:00	09/22/20 17:31	7440-41-7	
Boron	**1.7**	mg/L	0.10	0.0052	1	09/18/20 11:00	09/22/20 17:31	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00012	1	09/18/20 11:00	09/22/20 17:31	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	09/18/20 11:00	09/22/20 17:31	7440-47-3	
Cobalt	**0.00065J**	mg/L	0.0050	0.00038	1	09/18/20 11:00	09/22/20 17:31	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	09/18/20 11:00	09/22/20 17:31	7439-92-1	
Lithium	**0.016J**	mg/L	0.030	0.00081	1	09/18/20 11:00	09/22/20 17:31	7439-93-2	
Molybdenum	**0.00076J**	mg/L	0.010	0.00069	1	09/18/20 11:00	09/22/20 17:31	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	09/18/20 11:00	09/22/20 17:31	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	09/18/20 11:00	09/22/20 17:31	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00050	0.000078	1	09/18/20 08:30	09/18/20 14:47	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**622**	mg/L	10.0	10.0	1		09/18/20 09:58		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**4.4**	mg/L	1.0	0.60	1		09/19/20 17:23	16887-00-6	
Fluoride	**0.13**	mg/L	0.10	0.050	1		09/19/20 17:23	16984-48-8	
Sulfate	**343**	mg/L	7.0	3.5	7		09/20/20 04:32	14808-79-8	

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ANALYTICAL RESULTS

Project: BRANCH BCD NETWORK
Pace Project No.: 92495653

Sample: EB-1 **Lab ID: 92495653012** Collected: 09/16/20 15:11 Received: 09/17/20 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	ND	mg/L	1.0	0.070	1	09/22/20 14:15	09/22/20 21:27	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00028	1	09/18/20 11:00	09/22/20 17:36	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	09/18/20 11:00	09/22/20 17:36	7440-38-2	
Barium	ND	mg/L	0.010	0.00071	1	09/18/20 11:00	09/22/20 17:36	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	09/18/20 11:00	09/22/20 17:36	7440-41-7	
Boron	**0.0066J**	mg/L	0.10	0.0052	1	09/18/20 11:00	09/22/20 17:36	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00012	1	09/18/20 11:00	09/22/20 17:36	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	09/18/20 11:00	09/22/20 17:36	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	09/18/20 11:00	09/22/20 17:36	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	09/18/20 11:00	09/22/20 17:36	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	09/18/20 11:00	09/22/20 17:36	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	09/18/20 11:00	09/22/20 17:36	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	09/18/20 11:00	09/22/20 17:36	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	09/18/20 11:00	09/22/20 17:36	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00050	0.000078	1	09/18/20 08:30	09/18/20 14:49	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		09/18/20 09:58		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		09/19/20 17:37	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/19/20 17:37	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		09/19/20 17:37	14808-79-8	

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ANALYTICAL RESULTS

Project: BRANCH BCD NETWORK
Pace Project No.: 92495653

Sample: BRGWC-50 **Lab ID: 92495653013** Collected: 09/17/20 10:24 Received: 09/18/20 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
pH	**4.41**	Std. Units			1		09/22/20 12:29		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**206**	mg/L	1.0	0.070	1	09/22/20 14:15	09/22/20 22:02	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.00041J**	mg/L	0.0030	0.00028	1	09/23/20 13:53	09/23/20 20:05	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	09/23/20 13:53	09/23/20 20:05	7440-38-2	
Barium	**0.020**	mg/L	0.010	0.00071	1	09/23/20 13:53	09/23/20 20:05	7440-39-3	
Beryllium	**0.0065**	mg/L	0.0030	0.000046	1	09/23/20 13:53	09/24/20 17:33	7440-41-7	
Boron	**0.36**	mg/L	0.10	0.0052	1	09/23/20 13:53	09/24/20 17:33	7440-42-8	
Cadmium	**0.021**	mg/L	0.0025	0.00012	1	09/23/20 13:53	09/23/20 20:05	7440-43-9	
Chromium	**0.00098J**	mg/L	0.010	0.00055	1	09/23/20 13:53	09/23/20 20:05	7440-47-3	
Cobalt	**1.4**	mg/L	0.050	0.0038	10	09/23/20 13:53	09/24/20 17:07	7440-48-4	
Lead	**0.00015J**	mg/L	0.0050	0.000036	1	09/23/20 13:53	09/23/20 20:05	7439-92-1	
Lithium	**0.052**	mg/L	0.030	0.00081	1	09/23/20 13:53	09/24/20 17:33	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	09/23/20 13:53	09/23/20 20:05	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	09/23/20 13:53	09/23/20 20:05	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	09/23/20 13:53	09/23/20 20:05	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00050	0.000078	1	09/22/20 11:15	09/23/20 09:25	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**1910**	mg/L	50.0	50.0	1		09/24/20 11:49		D6,H1
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**20.1**	mg/L	1.0	0.60	1		09/22/20 01:20	16887-00-6	
Fluoride	**0.46**	mg/L	0.10	0.050	1		09/22/20 01:20	16984-48-8	
Sulfate	**1330**	mg/L	26.0	13.0	26		09/22/20 14:58	14808-79-8	

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ANALYTICAL RESULTS

Project: BRANCH BCD NETWORK
Pace Project No.: 92495653

Sample: BRGWC-52I **Lab ID: 92495653014** Collected: 09/17/20 10:07 Received: 09/18/20 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
pH	**6.12**	Std. Units			1		09/22/20 12:29		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**35.4**	mg/L	1.0	0.070	1	09/22/20 14:15	09/22/20 22:15	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00028	1	09/23/20 13:53	09/23/20 20:10	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	09/23/20 13:53	09/23/20 20:10	7440-38-2	
Barium	**0.020**	mg/L	0.010	0.00071	1	09/23/20 13:53	09/23/20 20:10	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	09/23/20 13:53	09/24/20 14:08	7440-41-7	
Boron	**1.9**	mg/L	0.10	0.0052	1	09/23/20 13:53	09/24/20 14:08	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00012	1	09/23/20 13:53	09/23/20 20:10	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	09/23/20 13:53	09/23/20 20:10	7440-47-3	
Cobalt	**0.00046J**	mg/L	0.0050	0.00038	1	09/23/20 13:53	09/23/20 20:10	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	09/23/20 13:53	09/23/20 20:10	7439-92-1	
Lithium	**0.0058J**	mg/L	0.030	0.00081	1	09/23/20 13:53	09/24/20 14:08	7439-93-2	
Molybdenum	**0.00070J**	mg/L	0.010	0.00069	1	09/23/20 13:53	09/23/20 20:10	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	09/23/20 13:53	09/23/20 20:10	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	09/23/20 13:53	09/23/20 20:10	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00050	0.000078	1	09/22/20 11:15	09/23/20 09:27	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**329**	mg/L	10.0	10.0	1		09/21/20 16:30		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**6.3**	mg/L	1.0	0.60	1		09/22/20 02:04	16887-00-6	
Fluoride	**0.074J**	mg/L	0.10	0.050	1		09/22/20 02:04	16984-48-8	
Sulfate	**165**	mg/L	4.0	2.0	4		09/22/20 15:13	14808-79-8	

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ANALYTICAL RESULTS

Project: BRANCH BCD NETWORK
Pace Project No.: 92495653

Sample: FB-2 **Lab ID: 92495653015** Collected: 09/17/20 10:20 Received: 09/18/20 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	ND	mg/L	1.0	0.070	1	09/22/20 14:15	09/22/20 22:20	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00028	1	09/23/20 13:53	09/23/20 20:16	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	09/23/20 13:53	09/23/20 20:16	7440-38-2	
Barium	ND	mg/L	0.010	0.00071	1	09/23/20 13:53	09/23/20 20:16	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	09/23/20 13:53	09/24/20 14:14	7440-41-7	
Boron	**0.0097J**	mg/L	0.10	0.0052	1	09/23/20 13:53	09/24/20 14:14	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00012	1	09/23/20 13:53	09/23/20 20:16	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	09/23/20 13:53	09/23/20 20:16	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	09/23/20 13:53	09/23/20 20:16	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	09/23/20 13:53	09/23/20 20:16	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	09/23/20 13:53	09/24/20 14:14	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	09/23/20 13:53	09/23/20 20:16	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	09/23/20 13:53	09/23/20 20:16	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	09/23/20 13:53	09/23/20 20:16	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00050	0.000078	1	09/22/20 11:15	09/23/20 09:30	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		09/21/20 16:30		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		09/22/20 02:19	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/22/20 02:19	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		09/22/20 02:19	14808-79-8	

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QUALITY CONTROL DATA

Project: BRANCH BCD NETWORK
Pace Project No.: 92495653

QC Batch: 566871 — Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A — Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92495653001, 92495653002, 92495653003, 92495653004, 92495653005

METHOD BLANK: 3003868 Matrix: Water
Associated Lab Samples: 92495653001, 92495653002, 92495653003, 92495653004, 92495653005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.070	09/17/20 17:42	

LABORATORY CONTROL SAMPLE: 3003869

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	0.93J	93	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3003870 3003871

Parameter	Units	92495653001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	5.7	1	1	6.6	6.6	89	87	75-125	0	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: BRANCH BCD NETWORK
Pace Project No.: 92495653

QC Batch: 568100 — Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A — Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92495653006, 92495653007, 92495653008, 92495653009, 92495653010, 92495653011, 92495653012, 92495653013, 92495653014, 92495653015

METHOD BLANK: 3010230 — Matrix: Water
Associated Lab Samples: 92495653006, 92495653007, 92495653008, 92495653009, 92495653010, 92495653011, 92495653012, 92495653013, 92495653014, 92495653015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.070	09/22/20 20:31	

LABORATORY CONTROL SAMPLE: 3010231

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	0.92J	92	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3010232 3010233

Parameter	Units	92495653006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	43.1	1	1	44.0	43.4	83	22	75-125	1	20	M1

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(770)734-4200

QUALITY CONTROL DATA

Project: BRANCH BCD NETWORK
Pace Project No.: 92495653

QC Batch: 566966
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92495653001, 92495653002, 92495653003, 92495653004, 92495653005

METHOD BLANK: 3004543 Matrix: Water
Associated Lab Samples: 92495653001, 92495653002, 92495653003, 92495653004, 92495653005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00028	09/21/20 15:26	
Arsenic	mg/L	ND	0.0050	0.00078	09/21/20 15:26	
Barium	mg/L	ND	0.010	0.00071	09/21/20 15:26	
Beryllium	mg/L	ND	0.0030	0.000046	09/21/20 15:26	
Boron	mg/L	ND	0.10	0.0052	09/21/20 15:26	
Cadmium	mg/L	ND	0.0025	0.00012	09/21/20 15:26	
Chromium	mg/L	ND	0.010	0.00055	09/21/20 15:26	
Cobalt	mg/L	ND	0.0050	0.00038	09/21/20 15:26	
Lead	mg/L	ND	0.0050	0.000036	09/21/20 15:26	
Lithium	mg/L	ND	0.030	0.00081	09/21/20 15:26	
Molybdenum	mg/L	ND	0.010	0.00069	09/21/20 15:26	
Selenium	mg/L	ND	0.010	0.0016	09/21/20 15:26	
Thallium	mg/L	ND	0.0010	0.00014	09/21/20 15:26	

LABORATORY CONTROL SAMPLE: 3004544

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.099	99	80-120	
Arsenic	mg/L	0.1	0.099	99	80-120	
Barium	mg/L	0.1	0.099	99	80-120	
Beryllium	mg/L	0.1	0.10	105	80-120	
Boron	mg/L	1	1.1	109	80-120	
Cadmium	mg/L	0.1	0.099	99	80-120	
Chromium	mg/L	0.1	0.10	105	80-120	
Cobalt	mg/L	0.1	0.10	101	80-120	
Lead	mg/L	0.1	0.099	99	80-120	
Lithium	mg/L	0.1	0.11	107	80-120	
Molybdenum	mg/L	0.1	0.099	99	80-120	
Selenium	mg/L	0.1	0.098	98	80-120	
Thallium	mg/L	0.1	0.097	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3004545 3004546

Parameter	Units	92495653001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.10	0.097	100	97	75-125	2	20	
Arsenic	mg/L	ND	0.1	0.1	0.10	0.096	101	96	75-125	5	20	

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QUALITY CONTROL DATA

Project: BRANCH BCD NETWORK
Pace Project No.: 92495653

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3004545 3004546

Parameter	Units	92495653001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	mg/L	0.058	0.1	0.1	0.16	0.15	99	95	75-125	2	20	
Beryllium	mg/L	ND	0.1	0.1	0.10	0.096	102	96	75-125	6	20	
Boron	mg/L	ND	1	1	1.0	0.98	103	97	75-125	5	20	
Cadmium	mg/L	ND	0.1	0.1	0.10	0.096	100	96	75-125	4	20	
Chromium	mg/L	0.0025J	0.1	0.1	0.11	0.099	103	96	75-125	7	20	
Cobalt	mg/L	ND	0.1	0.1	0.10	0.097	100	97	75-125	2	20	
Lead	mg/L	ND	0.1	0.1	0.099	0.096	99	96	75-125	3	20	
Lithium	mg/L	ND	0.1	0.1	0.10	0.10	104	100	75-125	4	20	
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.097	100	97	75-125	3	20	
Selenium	mg/L	ND	0.1	0.1	0.098	0.10	98	99	75-125	1	20	
Thallium	mg/L	ND	0.1	0.1	0.097	0.094	97	94	75-125	4	20	

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QUALITY CONTROL DATA

Project: BRANCH BCD NETWORK
Pace Project No.: 92495653

QC Batch: 567397
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92495653006, 92495653007, 92495653008, 92495653009, 92495653010, 92495653011, 92495653012

METHOD BLANK: 3006748 Matrix: Water
Associated Lab Samples: 92495653006, 92495653007, 92495653008, 92495653009, 92495653010, 92495653011, 92495653012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	0.00033J	0.0030	0.00028	09/22/20 15:42	
Arsenic	mg/L	ND	0.0050	0.00078	09/22/20 15:42	
Barium	mg/L	ND	0.010	0.00071	09/22/20 15:42	
Beryllium	mg/L	ND	0.0030	0.000046	09/22/20 15:42	
Boron	mg/L	ND	0.10	0.0052	09/22/20 15:42	
Cadmium	mg/L	ND	0.0025	0.00012	09/22/20 15:42	
Chromium	mg/L	ND	0.010	0.00055	09/22/20 15:42	
Cobalt	mg/L	ND	0.0050	0.00038	09/22/20 15:42	
Lead	mg/L	ND	0.0050	0.000036	09/22/20 15:42	
Lithium	mg/L	ND	0.030	0.00081	09/22/20 15:42	
Molybdenum	mg/L	ND	0.010	0.00069	09/22/20 15:42	
Selenium	mg/L	ND	0.010	0.0016	09/22/20 15:42	
Thallium	mg/L	ND	0.0010	0.00014	09/22/20 15:42	

LABORATORY CONTROL SAMPLE: 3006749

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	106	80-120	
Arsenic	mg/L	0.1	0.099	99	80-120	
Barium	mg/L	0.1	0.10	100	80-120	
Beryllium	mg/L	0.1	0.11	106	80-120	
Boron	mg/L	1	1.1	112	80-120	
Cadmium	mg/L	0.1	0.10	100	80-120	
Chromium	mg/L	0.1	0.10	103	80-120	
Cobalt	mg/L	0.1	0.099	99	80-120	
Lead	mg/L	0.1	0.10	101	80-120	
Lithium	mg/L	0.1	0.10	105	80-120	
Molybdenum	mg/L	0.1	0.098	98	80-120	
Selenium	mg/L	0.1	0.10	101	80-120	
Thallium	mg/L	0.1	0.10	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3006750 3006751

Parameter	Units	92495870002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.10	0.11	104	106	75-125	2	20	
Arsenic	mg/L	ND	0.1	0.1	0.098	0.098	98	98	75-125	0	20	

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QUALITY CONTROL DATA

Project: BRANCH BCD NETWORK
Pace Project No.: 92495653

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3006750 3006751

Parameter	Units	92495870002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	mg/L	0.019	0.1	0.1	0.12	0.12	97	99	75-125	2	20	
Beryllium	mg/L	ND	0.1	0.1	0.10	0.10	101	101	75-125	0	20	
Boron	mg/L	0.0053J	1	1	1.0	1.0	100	101	75-125	1	20	
Cadmium	mg/L	ND	0.1	0.1	0.098	0.096	98	96	75-125	1	20	
Chromium	mg/L	0.00086J	0.1	0.1	0.10	0.10	103	104	75-125	1	20	
Cobalt	mg/L	ND	0.1	0.1	0.098	0.098	98	98	75-125	0	20	
Lead	mg/L	ND	0.1	0.1	0.098	0.098	98	98	75-125	1	20	
Lithium	mg/L	ND	0.1	0.1	0.10	0.10	100	100	75-125	0	20	
Molybdenum	mg/L	ND	0.1	0.1	0.096	0.096	95	96	75-125	0	20	
Selenium	mg/L	ND	0.1	0.1	0.099	0.096	99	96	75-125	3	20	
Thallium	mg/L	ND	0.1	0.1	0.098	0.099	98	99	75-125	1	20	

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QUALITY CONTROL DATA

Project: BRANCH BCD NETWORK
Pace Project No.: 92495653

QC Batch: 568417
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92495653013, 92495653014, 92495653015

METHOD BLANK: 3011604 Matrix: Water
Associated Lab Samples: 92495653013, 92495653014, 92495653015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00028	09/23/20 18:33	
Arsenic	mg/L	ND	0.0050	0.00078	09/23/20 18:33	
Barium	mg/L	ND	0.010	0.00071	09/23/20 18:33	
Beryllium	mg/L	ND	0.0030	0.000046	09/23/20 18:33	
Boron	mg/L	ND	0.10	0.0052	09/23/20 18:33	
Cadmium	mg/L	ND	0.0025	0.00012	09/23/20 18:33	
Chromium	mg/L	ND	0.010	0.00055	09/23/20 18:33	
Cobalt	mg/L	ND	0.0050	0.00038	09/23/20 18:33	
Lead	mg/L	ND	0.0050	0.000036	09/23/20 18:33	
Lithium	mg/L	ND	0.030	0.00081	09/23/20 18:33	
Molybdenum	mg/L	ND	0.010	0.00069	09/23/20 18:33	
Selenium	mg/L	ND	0.010	0.0016	09/23/20 18:33	
Thallium	mg/L	ND	0.0010	0.00014	09/23/20 18:33	

LABORATORY CONTROL SAMPLE: 3011605

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	105	80-120	
Arsenic	mg/L	0.1	0.098	98	80-120	
Barium	mg/L	0.1	0.099	99	80-120	
Beryllium	mg/L	0.1	0.10	102	80-120	
Boron	mg/L	1	1.0	104	80-120	
Cadmium	mg/L	0.1	0.10	101	80-120	
Chromium	mg/L	0.1	0.10	105	80-120	
Cobalt	mg/L	0.1	0.10	105	80-120	
Lead	mg/L	0.1	0.10	101	80-120	
Lithium	mg/L	0.1	0.11	106	80-120	
Molybdenum	mg/L	0.1	0.10	103	80-120	
Selenium	mg/L	0.1	0.097	97	80-120	
Thallium	mg/L	0.1	0.099	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3011606 3011607

Parameter	Units	92495876001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.10	0.099	101	99	75-125	2	20	
Arsenic	mg/L	ND	0.1	0.1	0.097	0.095	97	95	75-125	1	20	

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QUALITY CONTROL DATA

Project: BRANCH BCD NETWORK
Pace Project No.: 92495653

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3011606 3011607

Parameter	Units	92495876001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	mg/L	0.030	0.1	0.1	0.13	0.13	96	95	75-125	1	20	
Beryllium	mg/L	0.00012J	0.1	0.1	0.098	0.095	98	95	75-125	2	20	
Boron	mg/L	0.0065J	1	1	1.0	0.98	100	97	75-125	3	20	
Cadmium	mg/L	0.00016J	0.1	0.1	0.10	0.098	100	98	75-125	2	20	
Chromium	mg/L	ND	0.1	0.1	0.10	0.10	103	103	75-125	0	20	
Cobalt	mg/L	ND	0.1	0.1	0.10	0.10	101	101	75-125	1	20	
Lead	mg/L	0.00065J	0.1	0.1	0.098	0.099	97	99	75-125	2	20	
Lithium	mg/L	0.0014J	0.1	0.1	0.10	0.10	101	100	75-125	0	20	
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	101	100	75-125	1	20	
Selenium	mg/L	ND	0.1	0.1	0.097	0.096	96	95	75-125	1	20	
Thallium	mg/L	ND	0.1	0.1	0.096	0.097	96	97	75-125	1	20	

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QUALITY CONTROL DATA

Project: BRANCH BCD NETWORK
Pace Project No.: 92495653

QC Batch: 567375
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92495653001, 92495653002, 92495653003, 92495653004, 92495653005, 92495653006, 92495653007, 92495653008, 92495653009, 92495653010, 92495653011, 92495653012

METHOD BLANK: 3006615 Matrix: Water
Associated Lab Samples: 92495653001, 92495653002, 92495653003, 92495653004, 92495653005, 92495653006, 92495653007, 92495653008, 92495653009, 92495653010, 92495653011, 92495653012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00050	0.000078	09/18/20 14:02	

LABORATORY CONTROL SAMPLE: 3006616

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0024	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3006617 3006618

Parameter	Units	92495653002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0025	0.0026	100	103	75-125	3	20	

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QUALITY CONTROL DATA

Project: BRANCH BCD NETWORK
Pace Project No.: 92495653

QC Batch: 568004
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92495653013, 92495653014, 92495653015

METHOD BLANK: 3009596 Matrix: Water
Associated Lab Samples: 92495653013, 92495653014, 92495653015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00050	0.000078	09/23/20 08:40	

LABORATORY CONTROL SAMPLE: 3009597

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0025	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3009598 3009599

Parameter	Units	92496275006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0025	0.0024	98	94	75-125	5	20	

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QUALITY CONTROL DATA

Project: BRANCH BCD NETWORK
Pace Project No.: 92495653

QC Batch: 566772 | Analysis Method: SM 2450C-2011
QC Batch Method: SM 2450C-2011 | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92495653001, 92495653002, 92495653003, 92495653004, 92495653005

METHOD BLANK: 3003519 Matrix: Water
Associated Lab Samples: 92495653001, 92495653002, 92495653003, 92495653004, 92495653005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	09/16/20 14:20	

LABORATORY CONTROL SAMPLE: 3003520

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	392	98	84-108	

SAMPLE DUPLICATE: 3003521

Parameter	Units	92495054002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	90.0	94.0	4	10	

SAMPLE DUPLICATE: 3003522

Parameter	Units	92495047012 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	ND	ND		10	

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QUALITY CONTROL DATA

Project: BRANCH BCD NETWORK
Pace Project No.: 92495653

QC Batch: 567147 | Analysis Method: SM 2450C-2011
QC Batch Method: SM 2450C-2011 | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92495653006, 92495653007, 92495653009, 92495653010

METHOD BLANK: 3005362 Matrix: Water
Associated Lab Samples: 92495653006, 92495653007, 92495653009, 92495653010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	09/17/20 15:18	

LABORATORY CONTROL SAMPLE: 3005363

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	384	96	84-108	

SAMPLE DUPLICATE: 3005364

Parameter	Units	92495870005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	ND	ND		10	

SAMPLE DUPLICATE: 3005365

Parameter	Units	92495900007 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1890	1860	2	10	

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QUALITY CONTROL DATA

Project: BRANCH BCD NETWORK
Pace Project No.: 92495653

QC Batch: 567372
QC Batch Method: SM 2450C-2011
Analysis Method: SM 2450C-2011
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92495653011, 92495653012

METHOD BLANK: 3006601 Matrix: Water
Associated Lab Samples: 92495653011, 92495653012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	09/18/20 09:58	

LABORATORY CONTROL SAMPLE: 3006602

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	387	97	84-108	

SAMPLE DUPLICATE: 3006603

Parameter	Units	92495653011 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	622	654	5	10	

SAMPLE DUPLICATE: 3006604

Parameter	Units	92495900008 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1220	1250	3	10	

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QUALITY CONTROL DATA

Project: BRANCH BCD NETWORK
Pace Project No.: 92495653

QC Batch: 567882
QC Batch Method: SM 2450C-2011
Analysis Method: SM 2450C-2011
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92495653008, 92495653014, 92495653015

METHOD BLANK: 3009251 Matrix: Water
Associated Lab Samples: 92495653008, 92495653014, 92495653015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	09/21/20 16:27	

LABORATORY CONTROL SAMPLE: 3009252

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	412	103	84-108	

SAMPLE DUPLICATE: 3009253

Parameter	Units	92495653008 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	2090	2130	2	10	

SAMPLE DUPLICATE: 3009254

Parameter	Units	92495870011 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	25.0	18.0	33	10	D6

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QUALITY CONTROL DATA

Project: BRANCH BCD NETWORK
Pace Project No.: 92495653

QC Batch: 569364
QC Batch Method: SM 2450C-2011
Analysis Method: SM 2450C-2011
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92495653013

METHOD BLANK: 3016819 Matrix: Water
Associated Lab Samples: 92495653013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	09/24/20 11:49	

LABORATORY CONTROL SAMPLE: 3016820

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	388	97	84-108	

SAMPLE DUPLICATE: 3016821

Parameter	Units	92495653013 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1910	2160	13	10	D6,H1

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QUALITY CONTROL DATA

Project: BRANCH BCD NETWORK
Pace Project No.: 92495653

QC Batch: 567529 | Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993 | Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92495653001, 92495653002, 92495653004, 92495653005, 92495653006

METHOD BLANK: 3007534 Matrix: Water
Associated Lab Samples: 92495653001, 92495653002, 92495653004, 92495653005, 92495653006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/18/20 16:46	
Fluoride	mg/L	ND	0.10	0.050	09/18/20 16:46	
Sulfate	mg/L	ND	1.0	0.50	09/18/20 16:46	

LABORATORY CONTROL SAMPLE: 3007535

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	52.2	104	90-110	
Fluoride	mg/L	2.5	2.7	106	90-110	
Sulfate	mg/L	50	52.4	105	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3007536 3007537

Parameter	Units	92496029001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	13.6	50	50	68.1	69.2	109	111	90-110	2	10	M1
Fluoride	mg/L	0.10	2.5	2.5	2.8	2.9	109	112	90-110	3	10	M1
Sulfate	mg/L	7.4	50	50	62.2	63.3	110	112	90-110	2	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3007538 3007539

Parameter	Units	92495653005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	5.5	50	50	58.5	62.8	106	115	90-110	7	10	M1
Fluoride	mg/L	0.057J	2.5	2.5	2.8	3.0	108	116	90-110	7	10	M1
Sulfate	mg/L	241	50	50	287	291	91	100	90-110	2	10	

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QUALITY CONTROL DATA

Project: BRANCH BCD NETWORK
Pace Project No.: 92495653

QC Batch: 567607
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92495653007, 92495653008, 92495653009, 92495653010, 92495653011, 92495653012

METHOD BLANK: 3008004 Matrix: Water
Associated Lab Samples: 92495653007, 92495653008, 92495653009, 92495653010, 92495653011, 92495653012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/19/20 15:23	
Fluoride	mg/L	ND	0.10	0.050	09/19/20 15:23	
Sulfate	mg/L	ND	1.0	0.50	09/19/20 15:23	

LABORATORY CONTROL SAMPLE: 3008005

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	52.3	105	90-110	
Fluoride	mg/L	2.5	2.7	106	90-110	
Sulfate	mg/L	50	52.5	105	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3008006 3008007

Parameter	Units	92495653007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	4.4	50	50	57.4	58.2	106	108	90-110	1	10	
Fluoride	mg/L	0.13	2.5	2.5	2.8	2.8	107	109	90-110	1	10	
Sulfate	mg/L	334	50	50	389	385	111	103	90-110	1	10	M6

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3008008 3008009

Parameter	Units	92495964005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	7.9	50	50	61.3	62.0	107	108	90-110	1	10	
Fluoride	mg/L	ND	2.5	2.5	2.7	2.7	107	108	90-110	1	10	
Sulfate	mg/L	256	50	50	298	299	85	87	90-110	0	10	M6

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QUALITY CONTROL DATA

Project: BRANCH BCD NETWORK
Pace Project No.: 92495653

QC Batch: 567942
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92495653013, 92495653014, 92495653015

METHOD BLANK: 3009478 Matrix: Water
Associated Lab Samples: 92495653013, 92495653014, 92495653015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/21/20 23:05	
Fluoride	mg/L	ND	0.10	0.050	09/21/20 23:05	
Sulfate	mg/L	ND	1.0	0.50	09/21/20 23:05	

LABORATORY CONTROL SAMPLE: 3009479

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	52.8	106	90-110	
Fluoride	mg/L	2.5	2.7	108	90-110	
Sulfate	mg/L	50	52.8	106	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3009480 3009481

Parameter	Units	92495047013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	1.7	50	50	53.8	53.6	104	104	90-110	0	10	
Fluoride	mg/L	ND	2.5	2.5	2.6	2.6	104	103	90-110	0	10	
Sulfate	mg/L	8.6	50	50	60.9	60.8	105	104	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3009482 3009483

Parameter	Units	92495870010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	0.97J	50	50	53.1	53.5	104	105	90-110	1	10	
Fluoride	mg/L	ND	2.5	2.5	2.6	2.6	104	105	90-110	2	10	
Sulfate	mg/L	ND	50	50	52.3	52.7	104	105	90-110	1	10	

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QUALITY CONTROL DATA

Project: BRANCH BCD NETWORK
Pace Project No.: 92495653

QC Batch: 568234
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92495653003

METHOD BLANK: 3010905 Matrix: Water
Associated Lab Samples: 92495653003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/23/20 17:04	
Fluoride	mg/L	ND	0.10	0.050	09/23/20 17:04	
Sulfate	mg/L	ND	1.0	0.50	09/23/20 17:04	

LABORATORY CONTROL SAMPLE: 3010906

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	53.0	106	90-110	
Fluoride	mg/L	2.5	2.7	109	90-110	
Sulfate	mg/L	50	53.2	106	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3010909 3010910

Parameter	Units	92496730002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	364	50	50	389	389	249	249	90-110	0	10	
Fluoride	mg/L	0.60	2.5	2.5	3.3	3.4	110	110	90-110	1	10	
Sulfate	mg/L	3.0	50	50	57.3	57.3	109	109	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3011115 3011116

Parameter	Units	92496730004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	109	50	50	158	158	97	97	90-110	0	10	
Fluoride	mg/L	0.43	2.5	2.5	3.1	3.2	108	109	90-110	1	10	
Sulfate	mg/L	79.4	50	50	120	120	81	81	90-110	0	10	M1

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QUALIFIERS

Project: BRANCH BCD NETWORK
Pace Project No.: 92495653

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

B	Analyte was detected in the associated method blank.
D6	The precision between the sample and sample duplicate exceeded laboratory control limits.
H1	Analysis conducted outside the EPA method holding time.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
M6	Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRANCH BCD NETWORK
Pace Project No.: 92495653

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92495653001	**BRGWA-12S**				
92495653002	**BRGWA-12I**				
92495653003	**BRGWA-23S**				
92495653004	**BRGWC-25I**				
92495653005	**BRGWC-29I**				
92495653006	**BRGWC-32S**				
92495653007	**BRGWC-30I**				
92495653008	**BRGWC-47**				
92495653009	**BRGWC-45**				
92495653010	**BRGWC-27I**				
92495653013	**BRGWC-50**				
92495653014	**BRGWC-52I**				
92495653001	**BRGWA-12S**	EPA 3010A	566871	EPA 6010D	566908
92495653002	**BRGWA-12I**	EPA 3010A	566871	EPA 6010D	566908
92495653003	**BRGWA-23S**	EPA 3010A	566871	EPA 6010D	566908
92495653004	**BRGWC-25I**	EPA 3010A	566871	EPA 6010D	566908
92495653005	**BRGWC-29I**	EPA 3010A	566871	EPA 6010D	566908
92495653006	**BRGWC-32S**	EPA 3010A	568100	EPA 6010D	568125
92495653007	**BRGWC-30I**	EPA 3010A	568100	EPA 6010D	568125
92495653008	**BRGWC-47**	EPA 3010A	568100	EPA 6010D	568125
92495653009	**BRGWC-45**	EPA 3010A	568100	EPA 6010D	568125
92495653010	**BRGWC-27I**	EPA 3010A	568100	EPA 6010D	568125
92495653011	**DUP-1**	EPA 3010A	568100	EPA 6010D	568125
92495653012	**EB-1**	EPA 3010A	568100	EPA 6010D	568125
92495653013	**BRGWC-50**	EPA 3010A	568100	EPA 6010D	568125
92495653014	**BRGWC-52I**	EPA 3010A	568100	EPA 6010D	568125
92495653015	**FB-2**	EPA 3010A	568100	EPA 6010D	568125
92495653001	**BRGWA-12S**	EPA 3005A	566966	EPA 6020B	566971
92495653002	**BRGWA-12I**	EPA 3005A	566966	EPA 6020B	566971
92495653003	**BRGWA-23S**	EPA 3005A	566966	EPA 6020B	566971
92495653004	**BRGWC-25I**	EPA 3005A	566966	EPA 6020B	566971
92495653005	**BRGWC-29I**	EPA 3005A	566966	EPA 6020B	566971
92495653006	**BRGWC-32S**	EPA 3005A	567397	EPA 6020B	567512
92495653007	**BRGWC-30I**	EPA 3005A	567397	EPA 6020B	567512
92495653008	**BRGWC-47**	EPA 3005A	567397	EPA 6020B	567512
92495653009	**BRGWC-45**	EPA 3005A	567397	EPA 6020B	567512
92495653010	**BRGWC-27I**	EPA 3005A	567397	EPA 6020B	567512
92495653011	**DUP-1**	EPA 3005A	567397	EPA 6020B	567512
92495653012	**EB-1**	EPA 3005A	567397	EPA 6020B	567512
92495653013	**BRGWC-50**	EPA 3005A	568417	EPA 6020B	568454
92495653014	**BRGWC-52I**	EPA 3005A	568417	EPA 6020B	568454
92495653015	**FB-2**	EPA 3005A	568417	EPA 6020B	568454
92495653001	**BRGWA-12S**	EPA 7470A	567375	EPA 7470A	567456
92495653002	**BRGWA-12I**	EPA 7470A	567375	EPA 7470A	567456
92495653003	**BRGWA-23S**	EPA 7470A	567375	EPA 7470A	567456
92495653004	**BRGWC-25I**	EPA 7470A	567375	EPA 7470A	567456

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRANCH BCD NETWORK
Pace Project No.: 92495653

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92495653005	**BRGWC-29I**	EPA 7470A	567375	EPA 7470A	567456
92495653006	**BRGWC-32S**	EPA 7470A	567375	EPA 7470A	567456
92495653007	**BRGWC-30I**	EPA 7470A	567375	EPA 7470A	567456
92495653008	**BRGWC-47**	EPA 7470A	567375	EPA 7470A	567456
92495653009	**BRGWC-45**	EPA 7470A	567375	EPA 7470A	567456
92495653010	**BRGWC-27I**	EPA 7470A	567375	EPA 7470A	567456
92495653011	**DUP-1**	EPA 7470A	567375	EPA 7470A	567456
92495653012	**EB-1**	EPA 7470A	567375	EPA 7470A	567456
92495653013	**BRGWC-50**	EPA 7470A	568004	EPA 7470A	568115
92495653014	**BRGWC-52I**	EPA 7470A	568004	EPA 7470A	568115
92495653015	**FB-2**	EPA 7470A	568004	EPA 7470A	568115
92495653001	**BRGWA-12S**	SM 2450C-2011	566772		
92495653002	**BRGWA-12I**	SM 2450C-2011	566772		
92495653003	**BRGWA-23S**	SM 2450C-2011	566772		
92495653004	**BRGWC-25I**	SM 2450C-2011	566772		
92495653005	**BRGWC-29I**	SM 2450C-2011	566772		
92495653006	**BRGWC-32S**	SM 2450C-2011	567147		
92495653007	**BRGWC-30I**	SM 2450C-2011	567147		
92495653008	**BRGWC-47**	SM 2450C-2011	567882		
92495653009	**BRGWC-45**	SM 2450C-2011	567147		
92495653010	**BRGWC-27I**	SM 2450C-2011	567147		
92495653011	**DUP-1**	SM 2450C-2011	567372		
92495653012	**EB-1**	SM 2450C-2011	567372		
92495653013	**BRGWC-50**	SM 2450C-2011	569364		
92495653014	**BRGWC-52I**	SM 2450C-2011	567882		
92495653015	**FB-2**	SM 2450C-2011	567882		
92495653001	**BRGWA-12S**	EPA 300.0 Rev 2.1 1993	567529		
92495653002	**BRGWA-12I**	EPA 300.0 Rev 2.1 1993	567529		
92495653003	**BRGWA-23S**	EPA 300.0 Rev 2.1 1993	568234		
92495653004	**BRGWC-25I**	EPA 300.0 Rev 2.1 1993	567529		
92495653005	**BRGWC-29I**	EPA 300.0 Rev 2.1 1993	567529		
92495653006	**BRGWC-32S**	EPA 300.0 Rev 2.1 1993	567529		
92495653007	**BRGWC-30I**	EPA 300.0 Rev 2.1 1993	567607		
92495653008	**BRGWC-47**	EPA 300.0 Rev 2.1 1993	567607		
92495653009	**BRGWC-45**	EPA 300.0 Rev 2.1 1993	567607		
92495653010	**BRGWC-27I**	EPA 300.0 Rev 2.1 1993	567607		
92495653011	**DUP-1**	EPA 300.0 Rev 2.1 1993	567607		
92495653012	**EB-1**	EPA 300.0 Rev 2.1 1993	567607		
92495653013	**BRGWC-50**	EPA 300.0 Rev 2.1 1993	567942		
92495653014	**BRGWC-52I**	EPA 300.0 Rev 2.1 1993	567942		
92495653015	**FB-2**	EPA 300.0 Rev 2.1 1993	567942		

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Sample Condition Upon Receipt

Pace Analytical

Client Name: GA Power

WO# : 92495653

92495653

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☑ Commercial ☐ Pace Othe

Tracking #: _____

Custody Seal on Cooler/Box Present: ☑ yes ☐ no Seals intact: ☑ yes ☐ no

Proj. Name:

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other _____

Thermometer Used 214 Type of Ice: (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 0.8 Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: 9/16/2008 dy

Temp should be above freezing to 6°C Comments:

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☑No ☐N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W		
All containers needing preservation have been checked.	☐Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☑No	Initial when completed / Lot # of added preservative
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	15.
Trip Blank Present:	☐Yes ☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ **Date:** _____

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i e out of hold, incorrect preservative, out of temp, incorrect containers)

F-ALLC003rev.3, 11September2006

Pace Analytical	Document Name: Bottle Identification Form (BIF)	Document Issued: March 14, 2019 Page 1 of 1
	Document No.: F-CAR-CS-043-Rev.00	Issuing Authority: Pace Carolinas Quality Office

Project # **WO# : 92495653**

PM: KLH1 Due Date: 09/30/20

CLIENT: GA-GA Power

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottle

Matrix	Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)
	1																										
	2																										
	3																										
	4																										
	5																										
	6																										
	7																										
	8																										
	9																										
	10																										
	11																										
	12																										

BPIN

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification C
Out of hold, incorrect preservative, out of temp, incorrect containers.

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

ALL SHADED AREAS are for LAB USE ONLY

Company: Georgia Power - Coal Combustion Residuals	Billing Information:	
Address: 2480 Maner Road Atlanta, GA 30339		
Report To: Joju Abraham	Email To: scsinvoices@southernco.com	
Copy To: Golder	Site Collection Info/Address: Plant Branch	
phone: (404) 506-7239 Email: jabraham@southernco.com	State: Georgia City: Milledgeville Time Zone Collected: [ ]PT [ ]MT [ ]CT [X]ET	
Phone: (404) 506-7239 Email: jabraham@southernco.com	Project Name: Plant Branch BCD Network Project # CCR 3rd Semi-Annual	Pace Profile#
Collected By (print): Travis Martinez, Andrea McClure	Purchase Order # Quote #	Pace Project Manager: kevin.herring@pacelabs.com
Collected By (signature):	Turnaround Date Required:	Immediately Packed on Ice [X] Yes [ ] No
	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply)	Field Filtered (if applicable): [ ] Yes [ ] No Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Water (WT), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	pH	# of Ctns	Metals 6010/6020/7470 - see comments	TDS	Chloride/Fluoride/Sulfate	Radium 226 228	Lab Sample # / Comments
BRGWA-12S	GW	G	9-15-2020	1315			6.00	5	X	X	X	X	92495653
BRGWA-12I	GW	G	9-15-2020	1113			6.01	5	X	X	X	X	
BRGWA-23S	GW	G	9-15-2020	1610			5.72	5	X	X	X	X	
BRGWC-25I	GW	G	9-15-2020	1720			6.00	7	X	X	X	X	+2 Rad
BRGWC-29I	GW	G	9-15-2020	1741			4.53	5	X	X	X	X	

Container Preservative Type **: 1 1

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

Analyses

Lab Project Manager:

Lab Profile/Line:

Lab Sample Receipt Checklist:
Custody Seals Present/Intact Y N NA
Custody Signatures Present Y N NA
Collector Signature Present Y N NA
Bottles Intact Y N NA
Correct Bottles Y N NA
Sufficient Volume Y N NA
Samples Received on Ice Y N NA
VOA - Headspace Acceptable Y N NA
USDA Regulated Soils Y N NA
Samples in Holding Time Y N NA
Residual Chlorine Present Y N NA
Cl Strips: _____
Sample pH Acceptable Y N NA
pH Strips: _____
Sulfide Present Y N NA
Lead Acetate Strips: _____

LAB USE ONLY:
Lab Sample # / Comments:

(Metals): As, B, Ba, Be, Ca, Cd, Co, Cr, Mo, Pb, Sb, Se, Li, Tl, Hg

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #:

Samples received via:
FEDEX UPS Client Courier Pace Courier

LAB Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: _____
Cooler 1 Temp Upon Receipt: __oC
Cooler 1 Therm Corr. Factor: __oC
Cooler 1 Corrected Temp: __oC
Comments:

Relinquished by/Company: (Signature) Golder	Date/Time: 9-16-2020/0800	Received by/Company: (Signature)	Date/Time: 9/16/20 0945	MTJL LAB USE ONLY Table #:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Acctnum: Template: Prelogin:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	PM: PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

September 15, 2020

Joju Abraham
Georgia Power-CCR
2480 Maner Road
Atlanta, GA 30339

RE: Project: BRANCH BCD NETWORK
Pace Project No.: 92491393

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between August 19, 2020 and August 21, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte
- Pace Analytical Services - Peachtree Corners, GA
- Pace Analytical Services - Greensburg

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kevin Herring
kevin.herring@pacelabs.com
1(704)875-9092
HORIZON Database Administrator

Enclosures

cc: Daniela Herrera, Golder
Ben Hodges, Georgia Power
Jimmy Jones, Golder Associates Inc.
Kristen Jurinko
Julie Lehrman, Golder Associates Inc.
Ms. Lauren Petty, Southern Co. Services
Carolyn Powrozek, Golder
Dawn Prell, Golder Associates Inc.
Tim Richards, Golder Associates - Atlanta
Brian Steele, Golder

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

CERTIFICATIONS

Project: BRANCH BCD NETWORK
Pace Project No.: 92491393

Pace Analytical Services Pennsylvania
1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Florida: Cert E871149 SEKS WET
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991
Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572018-1
New Hampshire/TNI Certification #: 297617
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 9526
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

Pace Analytical Services Charlotte
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

Pace Analytical Services Asheville
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners
110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
Georgia DW Microbiology Certification #: 812
North Carolina Certification #: 381
South Carolina Certification #: 98011001
Virginia Certification #: 460204

REPORT OF LABORATORY ANALYSIS

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110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE SUMMARY

Project: BRANCH BCD NETWORK
Pace Project No.: 92491393

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92491393001	**BRGWA-12I**	Water	08/18/20 13:05	08/19/20 10:10
92491393002	**BRGWA-12S**	Water	08/18/20 16:25	08/19/20 10:10
92491393003	**BRGWA-23S**	Water	08/18/20 15:28	08/19/20 10:10
92491393004	**BRGWC-25I**	Water	08/19/20 09:50	08/20/20 10:03
92491393005	**BRGWC-29I**	Water	08/19/20 10:50	08/20/20 10:03
92491393006	**BRGWC-27I**	Water	08/19/20 12:05	08/20/20 10:03
92491393007	**BRGWC-32S**	Water	08/19/20 13:20	08/20/20 10:03
92491393008	**BRGWC-30I**	Water	08/19/20 15:05	08/20/20 10:03
92491393009	**BRGWC-45**	Water	08/20/20 12:12	08/21/20 11:08
92491393010	**BRGWC-47**	Water	08/20/20 14:00	08/21/20 11:08
92491393011	**BRGWC-50**	Water	08/20/20 09:32	08/21/20 11:08
92491393012	**BRGWC-52I**	Water	08/20/20 09:45	08/21/20 11:08
92491393013	**DUP-2**	Water	08/20/20 00:00	08/21/20 11:08
92491393014	**FB-2**	Water	08/20/20 09:20	08/21/20 11:08
92491393015	**EB-1**	Water	08/20/20 12:45	08/21/20 11:08

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Peachtree Corners, GA 30092
(770)734-4200

SAMPLE ANALYTE COUNT

Project: BRANCH BCD NETWORK
Pace Project No.: 92491393

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92491393001	**BRGWA-12I**	EPA 6020B	CW1	12	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 300.0 Rev 2.1 1993	CDC	1	PASI-A
92491393002	**BRGWA-12S**	EPA 6020B	CW1	12	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 300.0 Rev 2.1 1993	CDC	1	PASI-A
92491393003	**BRGWA-23S**	EPA 6020B	CW1	12	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 300.0 Rev 2.1 1993	CDC	1	PASI-A
92491393004	**BRGWC-25I**	EPA 6020B	CW1	12	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 300.0 Rev 2.1 1993	CDC	1	PASI-A
92491393005	**BRGWC-29I**	EPA 6020B	CW1	12	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 300.0 Rev 2.1 1993	CDC	1	PASI-A
92491393006	**BRGWC-27I**	EPA 6020B	CW1	12	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 300.0 Rev 2.1 1993	CDC	1	PASI-A
92491393007	**BRGWC-32S**	EPA 6020B	CW1	12	PASI-GA

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110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE ANALYTE COUNT

Project: BRANCH BCD NETWORK
Pace Project No.: 92491393

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 7470A	VB	1	PASI-GA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 300.0 Rev 2.1 1993	CDC	1	PASI-A
92491393008	**BRGWC-30I**	EPA 6020B	CW1	12	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 300.0 Rev 2.1 1993	CDC	1	PASI-A
92491393009	**BRGWC-45**	EPA 6020B	CW1	12	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 300.0 Rev 2.1 1993	CDC	1	PASI-A
92491393010	**BRGWC-47**	EPA 6020B	CW1	12	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 300.0 Rev 2.1 1993	CDC	1	PASI-A
92491393011	**BRGWC-50**	EPA 6020B	CW1	12	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 300.0 Rev 2.1 1993	CDC	1	PASI-A
92491393012	**BRGWC-52I**	EPA 6020B	CW1	12	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 300.0 Rev 2.1 1993	CDC	1	PASI-A
92491393013	**DUP-2**	EPA 6020B	CW1	12	PASI-GA
		EPA 7470A	VB	1	PASI-GA

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(770)734-4200

SAMPLE ANALYTE COUNT

Project: BRANCH BCD NETWORK
Pace Project No.: 92491393

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 300.0 Rev 2.1 1993	CDC	1	PASI-A
92491393014	**FB-2**	EPA 6020B	CW1	12	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 300.0 Rev 2.1 1993	CDC	1	PASI-A
92491393015	**EB-1**	EPA 6020B	CW1	12	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 300.0 Rev 2.1 1993	CDC	1	PASI-A

PASI-A = Pace Analytical Services - Asheville
PASI-C = Pace Analytical Services - Charlotte
PASI-GA = Pace Analytical Services - Peachtree Corners, GA
PASI-PA = Pace Analytical Services - Greensburg

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Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SUMMARY OF DETECTION

Project: BRANCH BCD NETWORK
Pace Project No.: 92491393

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92491393001	**BRGWA-12I**					
	pH	6.25	Std. Units		09/09/20 17:01	
EPA 6020B	Antimony	0.0067	mg/L	0.0030	08/21/20 18:40	
EPA 6020B	Barium	0.053	mg/L	0.010	08/21/20 18:40	
EPA 6020B	Chromium	0.0023J	mg/L	0.010	08/21/20 18:40	
EPA 6020B	Lithium	0.0039J	mg/L	0.030	08/21/20 18:40	
EPA 9315	Radium-226	0.240 ± 0.122 (0.185) C:91% T:NA	pCi/L		09/08/20 17:44	
EPA 9320	Radium-228	0.748 ± 0.489 (0.931) C:70% T:80%	pCi/L		09/09/20 14:47	
Total Radium Calculation	Total Radium	0.988 ± 0.611 (1.12)	pCi/L		09/10/20 15:16	
EPA 300.0 Rev 2.1 1993	Fluoride	0.052J	mg/L	0.10	08/20/20 20:46	
92491393002	**BRGWA-12S**					
	pH	5.75	Std. Units		09/09/20 17:01	
EPA 6020B	Barium	0.058	mg/L	0.010	08/21/20 18:45	
EPA 6020B	Chromium	0.0029J	mg/L	0.010	08/21/20 18:45	
EPA 9315	Radium-226	0.157 ± 0.111 (0.189) C:90% T:NA	pCi/L		09/08/20 17:44	
EPA 9320	Radium-228	0.812 ± 0.497 (0.953) C:70% T:90%	pCi/L		09/09/20 11:25	
Total Radium Calculation	Total Radium	0.969 ± 0.608 (1.14)	pCi/L		09/10/20 15:16	
92491393003	**BRGWA-23S**					
	pH	5.56	Std. Units		09/09/20 17:01	
EPA 6020B	Barium	0.067	mg/L	0.010	08/21/20 18:51	
EPA 6020B	Chromium	0.0017J	mg/L	0.010	08/21/20 18:51	
EPA 6020B	Cobalt	0.00067J	mg/L	0.0050	08/21/20 18:51	
EPA 6020B	Lithium	0.0099J	mg/L	0.030	08/21/20 18:51	
EPA 6020B	Selenium	0.0033J	mg/L	0.010	08/21/20 18:51	
EPA 9315	Radium-226	0.197 ± 0.113 (0.177) C:84% T:NA	pCi/L		09/08/20 17:44	
EPA 9320	Radium-228	0.587 ± 0.442 (0.866) C:72% T:79%	pCi/L		09/09/20 11:25	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: BRANCH BCD NETWORK
Pace Project No.: 92491393

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92491393003	**BRGWA-23S**					
Total Radium Calculation	Total Radium	0.784 ± 0.555 (1.04)	pCi/L		09/10/20 15:16	
92491393004	**BRGWC-25I**					
	pH	6.32	Std. Units		09/09/20 17:01	
EPA 6020B	Barium	0.027	mg/L	0.010	08/25/20 17:36	
EPA 6020B	Cobalt	0.0039J	mg/L	0.0050	08/25/20 17:36	
EPA 6020B	Molybdenum	0.00081J	mg/L	0.010	08/25/20 17:36	
EPA 7470A	Mercury	0.000083J	mg/L	0.00020	08/25/20 10:10	
EPA 9315	Radium-226	0.288 ± 0.130 (0.188) C:86% T:NA	pCi/L		09/08/20 17:44	
EPA 9320	Radium-228	0.179 ± 0.343 (0.752) C:72% T:90%	pCi/L		09/09/20 11:25	
Total Radium Calculation	Total Radium	0.467 ± 0.473 (0.940)	pCi/L		09/10/20 15:16	
EPA 300.0 Rev 2.1 1993	Fluoride	0.17	mg/L	0.10	08/21/20 17:55	M1
92491393005	**BRGWC-29I**					
	pH	4.67	Std. Units		09/09/20 17:01	
EPA 6020B	Barium	0.019	mg/L	0.010	08/25/20 17:42	
EPA 6020B	Beryllium	0.00074J	mg/L	0.0030	08/25/20 17:42	
EPA 6020B	Cobalt	0.0065	mg/L	0.0050	08/25/20 17:42	
EPA 6020B	Lead	0.00025J	mg/L	0.0050	08/26/20 17:54	
EPA 6020B	Lithium	0.0029J	mg/L	0.030	08/25/20 17:42	
EPA 6020B	Thallium	0.00016J	mg/L	0.0010	08/26/20 17:54	
EPA 7470A	Mercury	0.000098J	mg/L	0.00020	08/25/20 10:13	
EPA 9315	Radium-226	0.299 ± 0.162 (0.267) C:91% T:NA	pCi/L		09/08/20 17:44	
EPA 9320	Radium-228	0.577 ± 0.428 (0.848) C:77% T:82%	pCi/L		09/09/20 11:25	
Total Radium Calculation	Total Radium	0.876 ± 0.590 (1.12)	pCi/L		09/10/20 15:16	
EPA 300.0 Rev 2.1 1993	Fluoride	0.12	mg/L	0.10	08/21/20 18:35	
92491393006	**BRGWC-27I**					
	pH	5.81	Std. Units		09/09/20 17:01	
EPA 6020B	Barium	0.016	mg/L	0.010	08/25/20 17:48	
EPA 6020B	Beryllium	0.000099J	mg/L	0.0030	08/25/20 17:48	
EPA 6020B	Cobalt	0.0078	mg/L	0.0050	08/25/20 17:48	
EPA 6020B	Lithium	0.0014J	mg/L	0.030	08/25/20 17:48	

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SUMMARY OF DETECTION

Project: BRANCH BCD NETWORK
Pace Project No.: 92491393

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92491393006	**BRGWC-27I**					
EPA 9315	Radium-226	0.260 ± 0.132 (0.203) C:91% T:NA	pCi/L		09/08/20 17:44	
EPA 9320	Radium-228	0.424 ± 0.358 (0.718) C:74% T:87%	pCi/L		09/09/20 11:26	
Total Radium Calculation	Total Radium	0.684 ± 0.490 (0.921)	pCi/L		09/10/20 15:16	
EPA 300.0 Rev 2.1 1993	Fluoride	0.19	mg/L	0.10	08/21/20 18:48	
92491393007	**BRGWC-32S**					
	pH	5.97	Std. Units		09/09/20 17:01	
EPA 6020B	Barium	0.025	mg/L	0.010	08/25/20 17:53	
EPA 6020B	Chromium	0.0021J	mg/L	0.010	08/25/20 17:53	
EPA 6020B	Lithium	0.0020J	mg/L	0.030	08/25/20 17:53	
EPA 6020B	Selenium	0.099	mg/L	0.010	08/25/20 17:53	
EPA 7470A	Mercury	0.000082J	mg/L	0.00020	08/25/20 10:18	
EPA 9315	Radium-226	0.0531 ± 0.0881 (0.172) C:92% T:NA	pCi/L		09/08/20 17:44	
EPA 9320	Radium-228	0.429 ± 0.407 (0.839) C:75% T:82%	pCi/L		09/09/20 11:26	
Total Radium Calculation	Total Radium	0.482 ± 0.495 (1.01)	pCi/L		09/10/20 15:16	
92491393008	**BRGWC-30I**					
	pH	6.36	Std. Units		09/09/20 17:01	
EPA 6020B	Barium	0.026	mg/L	0.010	08/25/20 17:59	
EPA 6020B	Cobalt	0.00080J	mg/L	0.0050	08/25/20 17:59	
EPA 6020B	Lithium	0.018J	mg/L	0.030	08/25/20 17:59	
EPA 6020B	Molybdenum	0.00078J	mg/L	0.010	08/25/20 17:59	
EPA 7470A	Mercury	0.000082J	mg/L	0.00020	08/25/20 10:25	
EPA 9315	Radium-226	0.299 ± 0.125 (0.167) C:88% T:NA	pCi/L		09/08/20 17:44	
EPA 9320	Radium-228	0.703 ± 0.450 (0.863) C:72% T:86%	pCi/L		09/09/20 11:26	
Total Radium Calculation	Total Radium	1.00 ± 0.575 (1.03)	pCi/L		09/11/20 08:26	
EPA 300.0 Rev 2.1 1993	Fluoride	0.14	mg/L	0.10	08/21/20 19:15	

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SUMMARY OF DETECTION

Project: BRANCH BCD NETWORK
Pace Project No.: 92491393

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92491393009	**BRGWC-45**					
	pH	5.86	Std. Units		09/09/20 17:01	
EPA 6020B	Antimony	0.0031	mg/L	0.0030	08/27/20 16:48	
EPA 6020B	Barium	0.083	mg/L	0.010	08/27/20 16:48	
EPA 6020B	Beryllium	0.000046J	mg/L	0.0030	08/27/20 16:48	
EPA 6020B	Cadmium	0.00014J	mg/L	0.0025	08/27/20 16:48	
EPA 6020B	Chromium	0.0010J	mg/L	0.010	08/27/20 16:48	
EPA 6020B	Cobalt	0.022	mg/L	0.0050	08/27/20 16:48	
EPA 6020B	Lead	0.00021J	mg/L	0.0050	08/27/20 16:48	
EPA 6020B	Lithium	0.0034J	mg/L	0.030	08/27/20 16:48	
EPA 6020B	Molybdenum	0.00076J	mg/L	0.010	08/27/20 16:48	
EPA 9315	Radium-226	0.194 ± 0.154 (0.275) C:88% T:NA	pCi/L		09/03/20 18:45	
EPA 9320	Radium-228	0.307 ± 0.468 (1.01) C:62% T:74%	pCi/L		09/09/20 15:08	
Total Radium Calculation	Total Radium	0.501 ± 0.622 (1.29)	pCi/L		09/10/20 15:16	
92491393010	**BRGWC-47**					
	pH	5.75	Std. Units		09/09/20 17:01	
EPA 6020B	Arsenic	0.00089J	mg/L	0.0050	08/27/20 16:53	
EPA 6020B	Barium	0.035	mg/L	0.010	08/27/20 16:53	
EPA 6020B	Beryllium	0.000047J	mg/L	0.0030	08/27/20 16:53	
EPA 6020B	Chromium	0.00064J	mg/L	0.010	08/27/20 16:53	
EPA 6020B	Cobalt	0.00043J	mg/L	0.0050	08/27/20 16:53	
EPA 6020B	Lead	0.000048J	mg/L	0.0050	08/27/20 16:53	
EPA 6020B	Lithium	0.044	mg/L	0.030	08/27/20 16:53	
EPA 6020B	Selenium	0.0016J	mg/L	0.010	08/27/20 16:53	
EPA 9315	Radium-226	0.500 ± 0.164 (0.181) C:86% T:NA	pCi/L		09/03/20 18:45	
EPA 9320	Radium-228	1.14 ± 0.652 (1.17) C:53% T:73%	pCi/L		09/09/20 15:08	
Total Radium Calculation	Total Radium	1.64 ± 0.816 (1.35)	pCi/L		09/10/20 15:16	
92491393011	**BRGWC-50**					
	pH	5.26	Std. Units		09/09/20 17:01	
EPA 6020B	Barium	0.019	mg/L	0.010	08/27/20 16:59	
EPA 6020B	Beryllium	0.0044	mg/L	0.0030	08/27/20 16:59	
EPA 6020B	Cadmium	0.0079	mg/L	0.0025	08/27/20 16:59	
EPA 6020B	Chromium	0.00065J	mg/L	0.010	08/27/20 16:59	

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SUMMARY OF DETECTION

Project: BRANCH BCD NETWORK
Pace Project No.: 92491393

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92491393011	**BRGWC-50**					
EPA 6020B	Cobalt	1.4	mg/L	0.025	08/28/20 15:08	
EPA 6020B	Lead	0.000067J	mg/L	0.0050	08/27/20 16:59	
EPA 6020B	Lithium	0.040	mg/L	0.030	08/27/20 16:59	
EPA 6020B	Selenium	0.0037J	mg/L	0.010	08/27/20 16:59	
EPA 9315	Radium-226	0.735 ± 0.193 (0.151) C:89% T:NA	pCi/L		09/03/20 18:18	
EPA 9320	Radium-228	2.04 ± 0.699 (0.948) C:71% T:67%	pCi/L		09/09/20 15:08	
Total Radium Calculation	Total Radium	2.78 ± 0.892 (1.10)	pCi/L		09/10/20 15:16	
EPA 300.0 Rev 2.1 1993	Fluoride	0.39	mg/L	0.10	08/25/20 18:20	
92491393012	**BRGWC-52I**					
	pH	6.85	Std. Units		09/09/20 17:01	
EPA 6020B	Arsenic	0.0031J	mg/L	0.0050	08/27/20 17:05	
EPA 6020B	Barium	0.017	mg/L	0.010	08/27/20 17:05	
EPA 6020B	Lithium	0.0022J	mg/L	0.030	08/27/20 17:05	
EPA 6020B	Molybdenum	0.0012J	mg/L	0.010	08/27/20 17:05	
EPA 9315	Radium-226	0.684 ± 0.388 (0.589) C:84% T:NA	pCi/L		09/04/20 07:17	
EPA 9320	Radium-228	2.29 ± 0.728 (0.901) C:70% T:69%	pCi/L		09/09/20 14:43	
Total Radium Calculation	Total Radium	2.97 ± 1.12 (1.49)	pCi/L		09/10/20 15:16	
EPA 300.0 Rev 2.1 1993	Fluoride	0.23	mg/L	0.10	08/25/20 19:05	
92491393013	**DUP-2**					
EPA 6020B	Barium	0.019	mg/L	0.010	08/27/20 17:10	
EPA 6020B	Beryllium	0.0046	mg/L	0.0030	08/27/20 17:10	
EPA 6020B	Cadmium	0.0077	mg/L	0.0025	08/27/20 17:10	
EPA 6020B	Chromium	0.00065J	mg/L	0.010	08/27/20 17:10	
EPA 6020B	Cobalt	1.4	mg/L	0.025	08/28/20 15:13	
EPA 6020B	Lead	0.000050J	mg/L	0.0050	08/27/20 17:10	
EPA 6020B	Lithium	0.041	mg/L	0.030	08/27/20 17:10	
EPA 6020B	Selenium	0.0038J	mg/L	0.010	08/27/20 17:10	
EPA 9315	Radium-226	0.602 ± 0.324 (0.420) C:87% T:NA	pCi/L		09/04/20 07:18	

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SUMMARY OF DETECTION

Project: BRANCH BCD NETWORK
Pace Project No.: 92491393

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92491393013	**DUP-2**					
EPA 9320	Radium-228	2.11 ± 0.682 (0.878) C:71% T:75%	pCi/L		09/09/20 14:43	
Total Radium Calculation	Total Radium	2.71 ± 1.01 (1.30)	pCi/L		09/10/20 15:16	
EPA 300.0 Rev 2.1 1993	Fluoride	0.38	mg/L	0.10	08/25/20 19:20	
92491393014	**FB-2**					
EPA 9315	Radium-226	0.0152 ± 0.200 (0.536) C:84% T:NA	pCi/L		09/04/20 07:18	
EPA 9320	Radium-228	0.713 ± 0.432 (0.796) C:69% T:83%	pCi/L		09/09/20 14:43	
Total Radium Calculation	Total Radium	0.728 ± 0.632 (1.33)	pCi/L		09/10/20 15:16	
92491393015	**EB-1**					
EPA 7470A	Mercury	0.000082J	mg/L	0.00020	08/25/20 09:25	
EPA 9315	Radium-226	0.115 ± 0.167 (0.346) C:89% T:NA	pCi/L		09/04/20 07:51	
EPA 9320	Radium-228	0.206 ± 0.334 (0.724) C:69% T:84%	pCi/L		09/09/20 14:43	
Total Radium Calculation	Total Radium	0.321 ± 0.501 (1.07)	pCi/L		09/10/20 15:16	

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ANALYTICAL RESULTS

Project: BRANCH BCD NETWORK
Pace Project No.: 92491393

Sample: BRGWA-12I **Lab ID: 92491393001** Collected: 08/18/20 13:05 Received: 08/19/20 10:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
pH	**6.25**	Std. Units			1		09/09/20 17:01		
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.0067**	mg/L	0.0030	0.00028	1	08/20/20 14:56	08/21/20 18:40	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	08/20/20 14:56	08/21/20 18:40	7440-38-2	
Barium	**0.053**	mg/L	0.010	0.00071	1	08/20/20 14:56	08/21/20 18:40	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	08/20/20 14:56	08/21/20 18:40	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	08/20/20 14:56	08/21/20 18:40	7440-43-9	
Chromium	**0.0023J**	mg/L	0.010	0.00055	1	08/20/20 14:56	08/21/20 18:40	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	08/20/20 14:56	08/21/20 18:40	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	08/20/20 14:56	08/21/20 18:40	7439-92-1	
Lithium	**0.0039J**	mg/L	0.030	0.00081	1	08/20/20 14:56	08/21/20 18:40	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	08/20/20 14:56	08/21/20 18:40	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	08/20/20 14:56	08/21/20 18:40	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	08/20/20 14:56	08/21/20 18:40	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	08/21/20 08:05	08/21/20 13:01	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.052J**	mg/L	0.10	0.050	1		08/20/20 20:46	16984-48-8	

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ANALYTICAL RESULTS

Project: BRANCH BCD NETWORK
Pace Project No.: 92491393

Sample: BRGWA-12S **Lab ID: 92491393002** Collected: 08/18/20 16:25 Received: 08/19/20 10:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
pH	**5.75**	Std. Units			1		09/09/20 17:01		
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00028	1	08/20/20 14:56	08/21/20 18:45	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	08/20/20 14:56	08/21/20 18:45	7440-38-2	
Barium	**0.058**	mg/L	0.010	0.00071	1	08/20/20 14:56	08/21/20 18:45	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	08/20/20 14:56	08/21/20 18:45	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	08/20/20 14:56	08/21/20 18:45	7440-43-9	
Chromium	**0.0029J**	mg/L	0.010	0.00055	1	08/20/20 14:56	08/21/20 18:45	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	08/20/20 14:56	08/21/20 18:45	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	08/20/20 14:56	08/21/20 18:45	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	08/20/20 14:56	08/21/20 18:45	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	08/20/20 14:56	08/21/20 18:45	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	08/20/20 14:56	08/21/20 18:45	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	08/20/20 14:56	08/21/20 18:45	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	08/21/20 08:05	08/21/20 13:03	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	ND	mg/L	0.10	0.050	1		08/20/20 20:59	16984-48-8	

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ANALYTICAL RESULTS

Project: BRANCH BCD NETWORK
Pace Project No.: 92491393

Sample: BRGWA-23S **Lab ID: 92491393003** Collected: 08/18/20 15:28 Received: 08/19/20 10:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
pH	**5.56**	Std. Units			1		09/09/20 17:01		
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00028	1	08/20/20 14:56	08/21/20 18:51	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	08/20/20 14:56	08/21/20 18:51	7440-38-2	
Barium	**0.067**	mg/L	0.010	0.00071	1	08/20/20 14:56	08/21/20 18:51	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	08/20/20 14:56	08/21/20 18:51	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	08/20/20 14:56	08/21/20 18:51	7440-43-9	
Chromium	**0.0017J**	mg/L	0.010	0.00055	1	08/20/20 14:56	08/21/20 18:51	7440-47-3	
Cobalt	**0.00067J**	mg/L	0.0050	0.00038	1	08/20/20 14:56	08/21/20 18:51	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	08/20/20 14:56	08/21/20 18:51	7439-92-1	
Lithium	**0.0099J**	mg/L	0.030	0.00081	1	08/20/20 14:56	08/21/20 18:51	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	08/20/20 14:56	08/21/20 18:51	7439-98-7	
Selenium	**0.0033J**	mg/L	0.010	0.0016	1	08/20/20 14:56	08/21/20 18:51	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	08/20/20 14:56	08/21/20 18:51	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	08/21/20 08:05	08/21/20 13:06	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	ND	mg/L	0.10	0.050	1		08/20/20 21:13	16984-48-8	

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ANALYTICAL RESULTS

Project: BRANCH BCD NETWORK
Pace Project No.: 92491393

Sample: BRGWC-25I **Lab ID: 92491393004** Collected: 08/19/20 09:50 Received: 08/20/20 10:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
pH	**6.32**	Std. Units			1		09/09/20 17:01		
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00028	1	08/24/20 15:05	08/25/20 17:36	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	08/24/20 15:05	08/25/20 17:36	7440-38-2	
Barium	**0.027**	mg/L	0.010	0.00071	1	08/24/20 15:05	08/25/20 17:36	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	08/24/20 15:05	08/25/20 17:36	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	08/24/20 15:05	08/25/20 17:36	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	08/24/20 15:05	08/25/20 17:36	7440-47-3	
Cobalt	**0.0039J**	mg/L	0.0050	0.00038	1	08/24/20 15:05	08/25/20 17:36	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	08/24/20 15:05	08/26/20 17:49	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	08/24/20 15:05	08/25/20 17:36	7439-93-2	
Molybdenum	**0.00081J**	mg/L	0.010	0.00069	1	08/24/20 15:05	08/25/20 17:36	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	08/24/20 15:05	08/25/20 17:36	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	08/24/20 15:05	08/26/20 17:49	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	**0.000083J**	mg/L	0.00020	0.000078	1	08/24/20 11:30	08/25/20 10:10	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.17**	mg/L	0.10	0.050	1		08/21/20 17:55	16984-48-8	M1

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ANALYTICAL RESULTS

Project: BRANCH BCD NETWORK
Pace Project No.: 92491393

Sample: BRGWC-29I **Lab ID: 92491393005** Collected: 08/19/20 10:50 Received: 08/20/20 10:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
pH	**4.67**	Std. Units			1		09/09/20 17:01		
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00028	1	08/24/20 15:05	08/25/20 17:42	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	08/24/20 15:05	08/25/20 17:42	7440-38-2	
Barium	**0.019**	mg/L	0.010	0.00071	1	08/24/20 15:05	08/25/20 17:42	7440-39-3	
Beryllium	**0.00074J**	mg/L	0.0030	0.000046	1	08/24/20 15:05	08/25/20 17:42	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	08/24/20 15:05	08/25/20 17:42	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	08/24/20 15:05	08/25/20 17:42	7440-47-3	
Cobalt	**0.0065**	mg/L	0.0050	0.00038	1	08/24/20 15:05	08/25/20 17:42	7440-48-4	
Lead	**0.00025J**	mg/L	0.0050	0.000036	1	08/24/20 15:05	08/26/20 17:54	7439-92-1	
Lithium	**0.0029J**	mg/L	0.030	0.00081	1	08/24/20 15:05	08/25/20 17:42	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	08/24/20 15:05	08/25/20 17:42	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	08/24/20 15:05	08/25/20 17:42	7782-49-2	
Thallium	**0.00016J**	mg/L	0.0010	0.00014	1	08/24/20 15:05	08/26/20 17:54	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	**0.000098J**	mg/L	0.00020	0.000078	1	08/24/20 11:30	08/25/20 10:13	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.12**	mg/L	0.10	0.050	1		08/21/20 18:35	16984-48-8	

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ANALYTICAL RESULTS

Project: BRANCH BCD NETWORK
Pace Project No.: 92491393

Sample: BRGWC-27I **Lab ID: 92491393006** Collected: 08/19/20 12:05 Received: 08/20/20 10:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
pH	**5.81**	Std. Units			1		09/09/20 17:01		
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00028	1	08/24/20 15:05	08/25/20 17:48	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	08/24/20 15:05	08/25/20 17:48	7440-38-2	
Barium	**0.016**	mg/L	0.010	0.00071	1	08/24/20 15:05	08/25/20 17:48	7440-39-3	
Beryllium	**0.000099J**	mg/L	0.0030	0.000046	1	08/24/20 15:05	08/25/20 17:48	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	08/24/20 15:05	08/25/20 17:48	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	08/24/20 15:05	08/25/20 17:48	7440-47-3	
Cobalt	**0.0078**	mg/L	0.0050	0.00038	1	08/24/20 15:05	08/25/20 17:48	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	08/24/20 15:05	08/26/20 18:00	7439-92-1	
Lithium	**0.0014J**	mg/L	0.030	0.00081	1	08/24/20 15:05	08/25/20 17:48	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	08/24/20 15:05	08/25/20 17:48	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	08/24/20 15:05	08/25/20 17:48	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	08/24/20 15:05	08/26/20 18:00	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	08/24/20 11:30	08/25/20 10:15	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.19**	mg/L	0.10	0.050	1		08/21/20 18:48	16984-48-8	

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ANALYTICAL RESULTS

Project: BRANCH BCD NETWORK
Pace Project No.: 92491393

Sample: BRGWC-32S **Lab ID: 92491393007** Collected: 08/19/20 13:20 Received: 08/20/20 10:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
pH	**5.97**	Std. Units			1		09/09/20 17:01		
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00028	1	08/24/20 15:05	08/25/20 17:53	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	08/24/20 15:05	08/25/20 17:53	7440-38-2	
Barium	**0.025**	mg/L	0.010	0.00071	1	08/24/20 15:05	08/25/20 17:53	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	08/24/20 15:05	08/25/20 17:53	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	08/24/20 15:05	08/25/20 17:53	7440-43-9	
Chromium	**0.0021J**	mg/L	0.010	0.00055	1	08/24/20 15:05	08/25/20 17:53	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	08/24/20 15:05	08/25/20 17:53	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	08/24/20 15:05	08/26/20 18:06	7439-92-1	
Lithium	**0.0020J**	mg/L	0.030	0.00081	1	08/24/20 15:05	08/25/20 17:53	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	08/24/20 15:05	08/25/20 17:53	7439-98-7	
Selenium	**0.099**	mg/L	0.010	0.0016	1	08/24/20 15:05	08/25/20 17:53	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	08/24/20 15:05	08/26/20 18:06	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	**0.000082J**	mg/L	0.00020	0.000078	1	08/24/20 11:30	08/25/20 10:18	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	ND	mg/L	0.10	0.050	1		08/21/20 19:02	16984-48-8	

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ANALYTICAL RESULTS

Project: BRANCH BCD NETWORK
Pace Project No.: 92491393

Sample: BRGWC-30I **Lab ID: 92491393008** Collected: 08/19/20 15:05 Received: 08/20/20 10:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
pH	**6.36**	Std. Units			1		09/09/20 17:01		
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00028	1	08/24/20 15:05	08/25/20 17:59	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	08/24/20 15:05	08/25/20 17:59	7440-38-2	
Barium	**0.026**	mg/L	0.010	0.00071	1	08/24/20 15:05	08/25/20 17:59	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	08/24/20 15:05	08/25/20 17:59	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	08/24/20 15:05	08/25/20 17:59	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	08/24/20 15:05	08/25/20 17:59	7440-47-3	
Cobalt	**0.00080J**	mg/L	0.0050	0.00038	1	08/24/20 15:05	08/25/20 17:59	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	08/24/20 15:05	08/26/20 18:12	7439-92-1	
Lithium	**0.018J**	mg/L	0.030	0.00081	1	08/24/20 15:05	08/25/20 17:59	7439-93-2	
Molybdenum	**0.00078J**	mg/L	0.010	0.00069	1	08/24/20 15:05	08/25/20 17:59	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	08/24/20 15:05	08/25/20 17:59	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	08/24/20 15:05	08/26/20 18:12	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	**0.000082J**	mg/L	0.00020	0.000078	1	08/24/20 11:30	08/25/20 10:25	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.14**	mg/L	0.10	0.050	1		08/21/20 19:15	16984-48-8	

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ANALYTICAL RESULTS

Project: BRANCH BCD NETWORK
Pace Project No.: 92491393

Sample: BRGWC-45 **Lab ID: 92491393009** Collected: 08/20/20 12:12 Received: 08/21/20 11:08 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
pH	**5.86**	Std. Units			1		09/09/20 17:01		
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.0031**	mg/L	0.0030	0.00028	1	08/24/20 15:10	08/27/20 16:48	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	08/24/20 15:10	08/27/20 16:48	7440-38-2	
Barium	**0.083**	mg/L	0.010	0.00071	1	08/24/20 15:10	08/27/20 16:48	7440-39-3	
Beryllium	**0.000046J**	mg/L	0.0030	0.000046	1	08/24/20 15:10	08/27/20 16:48	7440-41-7	
Cadmium	**0.00014J**	mg/L	0.0025	0.00012	1	08/24/20 15:10	08/27/20 16:48	7440-43-9	
Chromium	**0.0010J**	mg/L	0.010	0.00055	1	08/24/20 15:10	08/27/20 16:48	7440-47-3	
Cobalt	**0.022**	mg/L	0.0050	0.00038	1	08/24/20 15:10	08/27/20 16:48	7440-48-4	
Lead	**0.00021J**	mg/L	0.0050	0.000036	1	08/24/20 15:10	08/27/20 16:48	7439-92-1	
Lithium	**0.0034J**	mg/L	0.030	0.00081	1	08/24/20 15:10	08/27/20 16:48	7439-93-2	
Molybdenum	**0.00076J**	mg/L	0.010	0.00069	1	08/24/20 15:10	08/27/20 16:48	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	08/24/20 15:10	08/27/20 16:48	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	08/24/20 15:10	08/27/20 16:48	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	08/24/20 11:30	08/25/20 10:27	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	ND	mg/L	0.10	0.050	1		08/25/20 17:21	16984-48-8	

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ANALYTICAL RESULTS

Project: BRANCH BCD NETWORK
Pace Project No.: 92491393

Sample: BRGWC-47 **Lab ID: 92491393010** Collected: 08/20/20 14:00 Received: 08/21/20 11:08 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
pH	**5.75**	Std. Units			1		09/09/20 17:01		
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00028	1	08/24/20 15:10	08/27/20 16:53	7440-36-0	
Arsenic	**0.00089J**	mg/L	0.0050	0.00078	1	08/24/20 15:10	08/27/20 16:53	7440-38-2	
Barium	**0.035**	mg/L	0.010	0.00071	1	08/24/20 15:10	08/27/20 16:53	7440-39-3	
Beryllium	**0.000047J**	mg/L	0.0030	0.000046	1	08/24/20 15:10	08/27/20 16:53	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	08/24/20 15:10	08/27/20 16:53	7440-43-9	
Chromium	**0.00064J**	mg/L	0.010	0.00055	1	08/24/20 15:10	08/27/20 16:53	7440-47-3	
Cobalt	**0.00043J**	mg/L	0.0050	0.00038	1	08/24/20 15:10	08/27/20 16:53	7440-48-4	
Lead	**0.000048J**	mg/L	0.0050	0.000036	1	08/24/20 15:10	08/27/20 16:53	7439-92-1	
Lithium	**0.044**	mg/L	0.030	0.00081	1	08/24/20 15:10	08/27/20 16:53	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	08/24/20 15:10	08/27/20 16:53	7439-98-7	
Selenium	**0.0016J**	mg/L	0.010	0.0016	1	08/24/20 15:10	08/27/20 16:53	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	08/24/20 15:10	08/27/20 16:53	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	08/24/20 11:30	08/25/20 10:29	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	ND	mg/L	0.10	0.050	1		08/25/20 18:05	16984-48-8	

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ANALYTICAL RESULTS

Project: BRANCH BCD NETWORK
Pace Project No.: 92491393

Sample: BRGWC-50 **Lab ID: 92491393011** Collected: 08/20/20 09:32 Received: 08/21/20 11:08 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
pH	**5.26**	Std. Units			1		09/09/20 17:01		
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00028	1	08/24/20 15:10	08/27/20 16:59	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	08/24/20 15:10	08/27/20 16:59	7440-38-2	
Barium	**0.019**	mg/L	0.010	0.00071	1	08/24/20 15:10	08/27/20 16:59	7440-39-3	
Beryllium	**0.0044**	mg/L	0.0030	0.000046	1	08/24/20 15:10	08/27/20 16:59	7440-41-7	
Cadmium	**0.0079**	mg/L	0.0025	0.00012	1	08/24/20 15:10	08/27/20 16:59	7440-43-9	
Chromium	**0.00065J**	mg/L	0.010	0.00055	1	08/24/20 15:10	08/27/20 16:59	7440-47-3	
Cobalt	**1.4**	mg/L	0.025	0.0019	5	08/24/20 15:10	08/28/20 15:08	7440-48-4	
Lead	**0.000067J**	mg/L	0.0050	0.000036	1	08/24/20 15:10	08/27/20 16:59	7439-92-1	
Lithium	**0.040**	mg/L	0.030	0.00081	1	08/24/20 15:10	08/27/20 16:59	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	08/24/20 15:10	08/27/20 16:59	7439-98-7	
Selenium	**0.0037J**	mg/L	0.010	0.0016	1	08/24/20 15:10	08/27/20 16:59	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	08/24/20 15:10	08/27/20 16:59	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	08/24/20 11:30	08/25/20 10:32	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.39**	mg/L	0.10	0.050	1		08/25/20 18:20	16984-48-8	

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ANALYTICAL RESULTS

Project: BRANCH BCD NETWORK
Pace Project No.: 92491393

Sample: BRGWC-52I **Lab ID: 92491393012** Collected: 08/20/20 09:45 Received: 08/21/20 11:08 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
pH	**6.85**	Std. Units			1		09/09/20 17:01		
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00028	1	08/24/20 15:10	08/27/20 17:05	7440-36-0	
Arsenic	**0.0031J**	mg/L	0.0050	0.00078	1	08/24/20 15:10	08/27/20 17:05	7440-38-2	
Barium	**0.017**	mg/L	0.010	0.00071	1	08/24/20 15:10	08/27/20 17:05	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	08/24/20 15:10	08/27/20 17:05	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	08/24/20 15:10	08/27/20 17:05	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	08/24/20 15:10	08/27/20 17:05	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	08/24/20 15:10	08/27/20 17:05	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	08/24/20 15:10	08/27/20 17:05	7439-92-1	
Lithium	**0.0022J**	mg/L	0.030	0.00081	1	08/24/20 15:10	08/27/20 17:05	7439-93-2	
Molybdenum	**0.0012J**	mg/L	0.010	0.00069	1	08/24/20 15:10	08/27/20 17:05	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	08/24/20 15:10	08/27/20 17:05	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	08/24/20 15:10	08/27/20 17:05	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	08/24/20 11:30	08/25/20 10:34	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.23**	mg/L	0.10	0.050	1		08/25/20 19:05	16984-48-8	

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ANALYTICAL RESULTS

Project: BRANCH BCD NETWORK
Pace Project No.: 92491393

Sample: DUP-2 **Lab ID: 92491393013** Collected: 08/20/20 00:00 Received: 08/21/20 11:08 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00028	1	08/24/20 15:10	08/27/20 17:10	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	08/24/20 15:10	08/27/20 17:10	7440-38-2	
Barium	**0.019**	mg/L	0.010	0.00071	1	08/24/20 15:10	08/27/20 17:10	7440-39-3	
Beryllium	**0.0046**	mg/L	0.0030	0.000046	1	08/24/20 15:10	08/27/20 17:10	7440-41-7	
Cadmium	**0.0077**	mg/L	0.0025	0.00012	1	08/24/20 15:10	08/27/20 17:10	7440-43-9	
Chromium	**0.00065J**	mg/L	0.010	0.00055	1	08/24/20 15:10	08/27/20 17:10	7440-47-3	
Cobalt	**1.4**	mg/L	0.025	0.0019	5	08/24/20 15:10	08/28/20 15:13	7440-48-4	
Lead	**0.000050J**	mg/L	0.0050	0.000036	1	08/24/20 15:10	08/27/20 17:10	7439-92-1	
Lithium	**0.041**	mg/L	0.030	0.00081	1	08/24/20 15:10	08/27/20 17:10	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	08/24/20 15:10	08/27/20 17:10	7439-98-7	
Selenium	**0.0038J**	mg/L	0.010	0.0016	1	08/24/20 15:10	08/27/20 17:10	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	08/24/20 15:10	08/27/20 17:10	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	08/24/20 11:30	08/25/20 10:37	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.38**	mg/L	0.10	0.050	1		08/25/20 19:20	16984-48-8	

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ANALYTICAL RESULTS

Project: BRANCH BCD NETWORK
Pace Project No.: 92491393

Sample: FB-2 **Lab ID: 92491393014** Collected: 08/20/20 09:20 Received: 08/21/20 11:08 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00028	1	08/24/20 15:10	08/27/20 17:38	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	08/24/20 15:10	08/27/20 17:38	7440-38-2	
Barium	ND	mg/L	0.010	0.00071	1	08/24/20 15:10	08/27/20 17:38	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	08/24/20 15:10	08/27/20 17:38	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	08/24/20 15:10	08/27/20 17:38	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	08/24/20 15:10	08/27/20 17:38	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	08/24/20 15:10	08/27/20 17:38	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	08/24/20 15:10	08/27/20 17:38	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	08/24/20 15:10	08/27/20 17:38	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	08/24/20 15:10	08/27/20 17:38	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	08/24/20 15:10	08/27/20 17:38	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	08/24/20 15:10	08/27/20 17:38	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	08/24/20 11:30	08/25/20 10:39	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	ND	mg/L	0.10	0.050	1		08/25/20 19:35	16984-48-8	

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ANALYTICAL RESULTS

Project: BRANCH BCD NETWORK
Pace Project No.: 92491393

Sample: EB-1 **Lab ID: 92491393015** Collected: 08/20/20 12:45 Received: 08/21/20 11:08 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00028	1	08/24/20 15:10	08/27/20 17:43	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	08/24/20 15:10	08/27/20 17:43	7440-38-2	
Barium	ND	mg/L	0.010	0.00071	1	08/24/20 15:10	08/27/20 17:43	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	08/24/20 15:10	08/27/20 17:43	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	08/24/20 15:10	08/27/20 17:43	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	08/24/20 15:10	08/27/20 17:43	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	08/24/20 15:10	08/27/20 17:43	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	08/24/20 15:10	08/27/20 17:43	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	08/24/20 15:10	08/27/20 17:43	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	08/24/20 15:10	08/27/20 17:43	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	08/24/20 15:10	08/27/20 17:43	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	08/24/20 15:10	08/27/20 17:43	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	**0.000082J**	mg/L	0.00020	0.000078	1	08/24/20 11:30	08/25/20 09:25	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	ND	mg/L	0.10	0.050	1		08/25/20 19:50	16984-48-8	

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QUALITY CONTROL DATA

Project: BRANCH BCD NETWORK
Pace Project No.: 92491393

QC Batch: 561324
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92491393001, 92491393002, 92491393003

METHOD BLANK: 2977587 Matrix: Water
Associated Lab Samples: 92491393001, 92491393002, 92491393003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00028	08/21/20 17:31	
Arsenic	mg/L	ND	0.0050	0.00078	08/21/20 17:31	
Barium	mg/L	ND	0.010	0.00071	08/21/20 17:31	
Beryllium	mg/L	ND	0.0030	0.000046	08/21/20 17:31	
Cadmium	mg/L	ND	0.0025	0.00012	08/21/20 17:31	
Chromium	mg/L	ND	0.010	0.00055	08/21/20 17:31	
Cobalt	mg/L	ND	0.0050	0.00038	08/21/20 17:31	
Lead	mg/L	ND	0.0050	0.000036	08/21/20 17:31	
Lithium	mg/L	ND	0.030	0.00081	08/21/20 17:31	
Molybdenum	mg/L	ND	0.010	0.00069	08/21/20 17:31	
Selenium	mg/L	ND	0.010	0.0016	08/21/20 17:31	
Thallium	mg/L	ND	0.0010	0.00014	08/21/20 17:31	

LABORATORY CONTROL SAMPLE: 2977588

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	103	80-120	
Arsenic	mg/L	0.1	0.094	94	80-120	
Barium	mg/L	0.1	0.096	96	80-120	
Beryllium	mg/L	0.1	0.097	97	80-120	
Cadmium	mg/L	0.1	0.10	100	80-120	
Chromium	mg/L	0.1	0.10	100	80-120	
Cobalt	mg/L	0.1	0.099	99	80-120	
Lead	mg/L	0.1	0.097	97	80-120	
Lithium	mg/L	0.1	0.10	100	80-120	
Molybdenum	mg/L	0.1	0.096	96	80-120	
Selenium	mg/L	0.1	0.095	95	80-120	
Thallium	mg/L	0.1	0.096	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2977589 2977590

Parameter	Units	92491389001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.11	0.11	106	105	75-125	1	20	
Arsenic	mg/L	ND	0.1	0.1	0.094	0.095	94	95	75-125	2	20	
Barium	mg/L	0.022	0.1	0.1	0.13	0.12	108	96	75-125	9	20	
Beryllium	mg/L	ND	0.1	0.1	0.095	0.097	95	97	75-125	2	20	

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QUALITY CONTROL DATA

Project: BRANCH BCD NETWORK
Pace Project No.: 92491393

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2977589 2977590

Parameter	Units	92491389001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cadmium	mg/L	ND	0.1	0.1	0.097	0.10	97	100	75-125	3	20	
Chromium	mg/L	0.0069J	0.1	0.1	0.11	0.11	102	101	75-125	1	20	
Cobalt	mg/L	0.00048J	0.1	0.1	0.10	0.099	99	99	75-125	1	20	
Lead	mg/L	ND	0.1	0.1	0.098	0.099	98	99	75-125	1	20	
Lithium	mg/L	0.00095J	0.1	0.1	0.098	0.098	97	97	75-125	0	20	
Molybdenum	mg/L	0.0015J	0.1	0.1	0.10	0.10	99	101	75-125	2	20	
Selenium	mg/L	ND	0.1	0.1	0.095	0.091	94	90	75-125	4	20	
Thallium	mg/L	ND	0.1	0.1	0.096	0.097	96	97	75-125	1	20	

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QUALITY CONTROL DATA

Project: BRANCH BCD NETWORK
Pace Project No.: 92491393

QC Batch: 561963
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92491393004, 92491393005, 92491393006, 92491393007, 92491393008

METHOD BLANK: 2980652 Matrix: Water
Associated Lab Samples: 92491393004, 92491393005, 92491393006, 92491393007, 92491393008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00028	08/25/20 16:08	
Arsenic	mg/L	ND	0.0050	0.00078	08/25/20 16:08	
Barium	mg/L	ND	0.010	0.00071	08/25/20 16:08	
Beryllium	mg/L	ND	0.0030	0.000046	08/25/20 16:08	
Cadmium	mg/L	ND	0.0025	0.00012	08/25/20 16:08	
Chromium	mg/L	ND	0.010	0.00055	08/25/20 16:08	
Cobalt	mg/L	ND	0.0050	0.00038	08/25/20 16:08	
Lead	mg/L	ND	0.0050	0.000036	08/26/20 16:20	
Lithium	mg/L	ND	0.030	0.00081	08/25/20 16:08	
Molybdenum	mg/L	ND	0.010	0.00069	08/25/20 16:08	
Selenium	mg/L	ND	0.010	0.0016	08/25/20 16:08	
Thallium	mg/L	ND	0.0010	0.00014	08/26/20 16:20	

LABORATORY CONTROL SAMPLE: 2980653

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	100	80-120	
Arsenic	mg/L	0.1	0.096	96	80-120	
Barium	mg/L	0.1	0.097	97	80-120	
Beryllium	mg/L	0.1	0.098	98	80-120	
Cadmium	mg/L	0.1	0.099	99	80-120	
Chromium	mg/L	0.1	0.099	99	80-120	
Cobalt	mg/L	0.1	0.098	98	80-120	
Lead	mg/L	0.1	0.10	100	80-120	
Lithium	mg/L	0.1	0.098	98	80-120	
Molybdenum	mg/L	0.1	0.097	97	80-120	
Selenium	mg/L	0.1	0.098	98	80-120	
Thallium	mg/L	0.1	0.10	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2980654 2980655

Parameter	Units	92491455013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	0.00064J	0.1	0.1	0.10	0.10	101	99	75-125	2	20	
Arsenic	mg/L	ND	0.1	0.1	0.099	0.099	99	99	75-125	0	20	
Barium	mg/L	0.12	0.1	0.1	0.24	0.23	115	114	75-125	0	20	
Beryllium	mg/L	ND	0.1	0.1	0.098	0.099	98	99	75-125	0	20	

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QUALITY CONTROL DATA

Project: BRANCH BCD NETWORK
Pace Project No.: 92491393

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2980654 2980655

Parameter	Units	92491455013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cadmium	mg/L	0.00058J	0.1	0.1	0.096	0.096	95	95	75-125	0	20	
Chromium	mg/L	0.0015J	0.1	0.1	0.10	0.10	100	100	75-125	0	20	
Cobalt	mg/L	0.00040J	0.1	0.1	0.10	0.10	99	99	75-125	0	20	
Lead	mg/L	0.00035J	0.1	0.1	0.094	0.093	94	93	75-125	1	20	
Lithium	mg/L	ND	0.1	0.1	0.096	0.098	96	97	75-125	1	20	
Molybdenum	mg/L	0.00077J	0.1	0.1	0.10	0.10	102	99	75-125	2	20	
Selenium	mg/L	0.0028J	0.1	0.1	0.10	0.10	99	99	75-125	0	20	
Thallium	mg/L	0.00021J	0.1	0.1	0.094	0.093	94	93	75-125	1	20	

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QUALITY CONTROL DATA

Project: BRANCH BCD NETWORK
Pace Project No.: 92491393

QC Batch: 561964
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92491393009, 92491393010, 92491393011, 92491393012, 92491393013, 92491393014, 92491393015

METHOD BLANK: 2980659 Matrix: Water
Associated Lab Samples: 92491393009, 92491393010, 92491393011, 92491393012, 92491393013, 92491393014, 92491393015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00028	08/27/20 15:08	
Arsenic	mg/L	ND	0.0050	0.00078	08/27/20 15:08	
Barium	mg/L	ND	0.010	0.00071	08/27/20 15:08	
Beryllium	mg/L	ND	0.0030	0.000046	08/27/20 15:08	
Cadmium	mg/L	ND	0.0025	0.00012	08/27/20 15:08	
Chromium	mg/L	ND	0.010	0.00055	08/27/20 15:08	
Cobalt	mg/L	ND	0.0050	0.00038	08/27/20 15:08	
Lead	mg/L	ND	0.0050	0.000036	08/27/20 15:08	
Lithium	mg/L	ND	0.030	0.00081	08/27/20 15:08	
Molybdenum	mg/L	ND	0.010	0.00069	08/27/20 15:08	
Selenium	mg/L	ND	0.010	0.0016	08/27/20 15:08	
Thallium	mg/L	ND	0.0010	0.00014	08/27/20 15:08	

LABORATORY CONTROL SAMPLE: 2980660

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	101	80-120	
Arsenic	mg/L	0.1	0.097	97	80-120	
Barium	mg/L	0.1	0.099	99	80-120	
Beryllium	mg/L	0.1	0.099	99	80-120	
Cadmium	mg/L	0.1	0.099	99	80-120	
Chromium	mg/L	0.1	0.099	99	80-120	
Cobalt	mg/L	0.1	0.10	100	80-120	
Lead	mg/L	0.1	0.10	100	80-120	
Lithium	mg/L	0.1	0.10	101	80-120	
Molybdenum	mg/L	0.1	0.099	99	80-120	
Selenium	mg/L	0.1	0.096	96	80-120	
Thallium	mg/L	0.1	0.10	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2980661 2980662

Parameter	Units	92491663009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.10	0.10	103	102	75-125	1	20	
Arsenic	mg/L	ND	0.1	0.1	0.10	0.10	101	100	75-125	1	20	
Barium	mg/L	0.047	0.1	0.1	0.14	0.14	98	97	75-125	0	20	
Beryllium	mg/L	ND	0.1	0.1	0.097	0.096	97	96	75-125	1	20	

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QUALITY CONTROL DATA

Project: BRANCH BCD NETWORK
Pace Project No.: 92491393

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2980661 2980662

Parameter	Units	92491663009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cadmium	mg/L	ND	0.1	0.1	0.10	0.098	100	98	75-125	2	20	
Chromium	mg/L	0.012	0.1	0.1	0.12	0.11	106	102	75-125	4	20	
Cobalt	mg/L	ND	0.1	0.1	0.10	0.10	103	102	75-125	1	20	
Lead	mg/L	ND	0.1	0.1	0.10	0.10	100	100	75-125	0	20	
Lithium	mg/L	0.0010J	0.1	0.1	0.10	0.099	98	98	75-125	0	20	
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	103	100	75-125	2	20	
Selenium	mg/L	0.0030J	0.1	0.1	0.10	0.10	99	102	75-125	3	20	
Thallium	mg/L	ND	0.1	0.1	0.10	0.10	101	102	75-125	1	20	

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QUALITY CONTROL DATA

Project: BRANCH BCD NETWORK
Pace Project No.: 92491393

QC Batch: 561377
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92491393001, 92491393002, 92491393003

METHOD BLANK: 2977870 Matrix: Water
Associated Lab Samples: 92491393001, 92491393002, 92491393003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00050	0.000078	08/21/20 12:32	

LABORATORY CONTROL SAMPLE: 2977871

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0027	108	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2977872 2977873

Parameter	Units	92491389001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0026	0.0026	104	106	75-125	2	20	

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QUALITY CONTROL DATA

Project: BRANCH BCD NETWORK
Pace Project No.: 92491393

QC Batch: 561894
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92491393015

METHOD BLANK: 2980088 Matrix: Water
Associated Lab Samples: 92491393015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00050	0.000078	08/25/20 08:19	

LABORATORY CONTROL SAMPLE: 2980089

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0026	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2980090 2980091

Parameter	Units	92491616002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0023	0.0026	90	102	75-125	12	20	

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QUALITY CONTROL DATA

Project: BRANCH BCD NETWORK
Pace Project No.: 92491393

QC Batch: 561900
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92491393004, 92491393005, 92491393006, 92491393007, 92491393008, 92491393009, 92491393010, 92491393011, 92491393012, 92491393013, 92491393014

METHOD BLANK: 2980098 Matrix: Water
Associated Lab Samples: 92491393004, 92491393005, 92491393006, 92491393007, 92491393008, 92491393009, 92491393010, 92491393011, 92491393012, 92491393013, 92491393014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00050	0.000078	08/25/20 09:32	

LABORATORY CONTROL SAMPLE: 2980099

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0026	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2980100 2980101

Parameter	Units	92491663001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0023	0.0024	90	94	75-125	3	20	

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QUALITY CONTROL DATA

Project: BRANCH BCD NETWORK
Pace Project No.: 92491393

QC Batch: 561236
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92491393001, 92491393002, 92491393003

METHOD BLANK: 2977010 Matrix: Water
Associated Lab Samples: 92491393001, 92491393002, 92491393003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Fluoride	mg/L	ND	0.10	0.050	08/20/20 16:29	

LABORATORY CONTROL SAMPLE: 2977011

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluoride	mg/L	2.5	2.4	95	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2977012 2977013

Parameter	Units	92490037006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Fluoride	mg/L	0.055J	2.5	2.5	2.7	2.4	107	94	90-110	12	10	R1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2977014 2977015

Parameter	Units	92491455002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Fluoride	mg/L	ND	2.5	2.5	2.4	2.3	95	92	90-110	4	10	

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QUALITY CONTROL DATA

Project: BRANCH BCD NETWORK
Pace Project No.: 92491393

QC Batch: 561506
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92491393004, 92491393005, 92491393006, 92491393007, 92491393008

METHOD BLANK: 2978310 Matrix: Water
Associated Lab Samples: 92491393004, 92491393005, 92491393006, 92491393007, 92491393008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Fluoride	mg/L	ND	0.10	0.050	08/21/20 17:28	

LABORATORY CONTROL SAMPLE: 2978311

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluoride	mg/L	2.5	2.4	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2978312 2978313

Parameter	Units	92491393004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Fluoride	mg/L	0.17	2.5	2.5	3.0	3.0	112	112	90-110	0	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2978314 2978315

Parameter	Units	92491663005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Fluoride	mg/L	0.060J	2.5	2.5	2.7	2.7	105	106	90-110	1	10	

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QUALITY CONTROL DATA

Project: BRANCH BCD NETWORK
Pace Project No.: 92491393

QC Batch: 562094
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92491393009, 92491393010, 92491393011, 92491393012, 92491393013, 92491393014, 92491393015

METHOD BLANK: 2981303 Matrix: Water
Associated Lab Samples: 92491393009, 92491393010, 92491393011, 92491393012, 92491393013, 92491393014, 92491393015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Fluoride	mg/L	ND	0.10	0.050	08/25/20 12:53	

LABORATORY CONTROL SAMPLE: 2981304

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluoride	mg/L	2.5	2.7	108	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2981305 2981306

Parameter	Units	92492088001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Fluoride	mg/L	ND	2.5	2.5	2.6	2.6	104	105	90-110	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2981307 2981308

Parameter	Units	92491393009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Fluoride	mg/L	ND	2.5	2.5	2.6	2.6	103	103	90-110	0	10	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BRANCH BCD NETWORK
Pace Project No.: 92491393

Sample: BRGWA-12I **Lab ID: 92491393001** Collected: 08/18/20 13:05 Received: 08/19/20 10:10 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.240 ± 0.122 (0.185) C:91% T:NA**	pCi/L	09/08/20 17:44	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.748 ± 0.489 (0.931) C:70% T:80%**	pCi/L	09/09/20 14:47	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.988 ± 0.611 (1.12)**	pCi/L	09/10/20 15:16	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BRANCH BCD NETWORK
Pace Project No.: 92491393

Sample: BRGWA-12S **Lab ID: 92491393002** Collected: 08/18/20 16:25 Received: 08/19/20 10:10 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.157 ± 0.111 (0.189) C:90% T:NA**	pCi/L	09/08/20 17:44	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.812 ± 0.497 (0.953) C:70% T:90%**	pCi/L	09/09/20 11:25	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.969 ± 0.608 (1.14)**	pCi/L	09/10/20 15:16	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BRANCH BCD NETWORK
Pace Project No.: 92491393

Sample: BRGWA-23S **Lab ID: 92491393003** Collected: 08/18/20 15:28 Received: 08/19/20 10:10 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.197 ± 0.113 (0.177) C:84% T:NA**	pCi/L	09/08/20 17:44	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.587 ± 0.442 (0.866) C:72% T:79%**	pCi/L	09/09/20 11:25	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.784 ± 0.555 (1.04)**	pCi/L	09/10/20 15:16	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BRANCH BCD NETWORK
Pace Project No.: 92491393

Sample: BRGWC-25I **Lab ID: 92491393004** Collected: 08/19/20 09:50 Received: 08/20/20 10:03 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.288 ± 0.130 (0.188) C:86% T:NA**	pCi/L	09/08/20 17:44	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.179 ± 0.343 (0.752) C:72% T:90%**	pCi/L	09/09/20 11:25	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.467 ± 0.473 (0.940)**	pCi/L	09/10/20 15:16	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BRANCH BCD NETWORK
Pace Project No.: 92491393

Sample: BRGWC-29I **Lab ID: 92491393005** Collected: 08/19/20 10:50 Received: 08/20/20 10:03 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.299 ± 0.162 (0.267) C:91% T:NA**	pCi/L	09/08/20 17:44	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.577 ± 0.428 (0.848) C:77% T:82%**	pCi/L	09/09/20 11:25	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.876 ± 0.590 (1.12)**	pCi/L	09/10/20 15:16	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BRANCH BCD NETWORK
Pace Project No.: 92491393

Sample: BRGWC-27I **Lab ID: 92491393006** Collected: 08/19/20 12:05 Received: 08/20/20 10:03 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.260 ± 0.132 (0.203) C:91% T:NA**	pCi/L	09/08/20 17:44	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.424 ± 0.358 (0.718) C:74% T:87%**	pCi/L	09/09/20 11:26	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.684 ± 0.490 (0.921)**	pCi/L	09/10/20 15:16	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BRANCH BCD NETWORK
Pace Project No.: 92491393

Sample: BRGWC-32S **Lab ID: 92491393007** Collected: 08/19/20 13:20 Received: 08/20/20 10:03 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0531 ± 0.0881 (0.172) C:92% T:NA**	pCi/L	09/08/20 17:44	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.429 ± 0.407 (0.839) C:75% T:82%**	pCi/L	09/09/20 11:26	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.482 ± 0.495 (1.01)**	pCi/L	09/10/20 15:16	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BRANCH BCD NETWORK
Pace Project No.: 92491393

Sample: BRGWC-30I **Lab ID: 92491393008** Collected: 08/19/20 15:05 Received: 08/20/20 10:03 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.299 ± 0.125 (0.167) C:88% T:NA**	pCi/L	09/08/20 17:44	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.703 ± 0.450 (0.863) C:72% T:86%**	pCi/L	09/09/20 11:26	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.00 ± 0.575 (1.03)**	pCi/L	09/11/20 08:26	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BRANCH BCD NETWORK
Pace Project No.: 92491393

Sample: BRGWC-45 **Lab ID: 92491393009** Collected: 08/20/20 12:12 Received: 08/21/20 11:08 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.194 ± 0.154 (0.275) C:88% T:NA**	pCi/L	09/03/20 18:45	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.307 ± 0.468 (1.01) C:62% T:74%**	pCi/L	09/09/20 15:08	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.501 ± 0.622 (1.29)**	pCi/L	09/10/20 15:16	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BRANCH BCD NETWORK
Pace Project No.: 92491393

Sample: BRGWC-47 **Lab ID: 92491393010** Collected: 08/20/20 14:00 Received: 08/21/20 11:08 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.500 ± 0.164 (0.181) C:86% T:NA**	pCi/L	09/03/20 18:45	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.14 ± 0.652 (1.17) C:53% T:73%**	pCi/L	09/09/20 15:08	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.64 ± 0.816 (1.35)**	pCi/L	09/10/20 15:16	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BRANCH BCD NETWORK
Pace Project No.: 92491393

Sample: BRGWC-50 **Lab ID: 92491393011** Collected: 08/20/20 09:32 Received: 08/21/20 11:08 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.735 ± 0.193 (0.151) C:89% T:NA**	pCi/L	09/03/20 18:18	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**2.04 ± 0.699 (0.948) C:71% T:67%**	pCi/L	09/09/20 15:08	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**2.78 ± 0.892 (1.10)**	pCi/L	09/10/20 15:16	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BRANCH BCD NETWORK
Pace Project No.: 92491393

Sample: BRGWC-52I **Lab ID: 92491393012** Collected: 08/20/20 09:45 Received: 08/21/20 11:08 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.684 ± 0.388 (0.589) C:84% T:NA**	pCi/L	09/04/20 07:17	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**2.29 ± 0.728 (0.901) C:70% T:69%**	pCi/L	09/09/20 14:43	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**2.97 ± 1.12 (1.49)**	pCi/L	09/10/20 15:16	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BRANCH BCD NETWORK
Pace Project No.: 92491393

Sample: DUP-2 **Lab ID: 92491393013** Collected: 08/20/20 00:00 Received: 08/21/20 11:08 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.602 ± 0.324 (0.420) C:87% T:NA**	pCi/L	09/04/20 07:18	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**2.11 ± 0.682 (0.878) C:71% T:75%**	pCi/L	09/09/20 14:43	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**2.71 ± 1.01 (1.30)**	pCi/L	09/10/20 15:16	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BRANCH BCD NETWORK
Pace Project No.: 92491393

Sample: FB-2 **Lab ID: 92491393014** Collected: 08/20/20 09:20 Received: 08/21/20 11:08 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0152 ± 0.200 (0.536) C:84% T:NA**	pCi/L	09/04/20 07:18	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.713 ± 0.432 (0.796) C:69% T:83%**	pCi/L	09/09/20 14:43	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.728 ± 0.632 (1.33)**	pCi/L	09/10/20 15:16	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BRANCH BCD NETWORK
Pace Project No.: 92491393

Sample: EB-1 **Lab ID: 92491393015** Collected: 08/20/20 12:45 Received: 08/21/20 11:08 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.115 ± 0.167 (0.346) C:89% T:NA**	pCi/L	09/04/20 07:51	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.206 ± 0.334 (0.724) C:69% T:84%**	pCi/L	09/09/20 14:43	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.321 ± 0.501 (1.07)**	pCi/L	09/10/20 15:16	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: BRANCH BCD NETWORK
Pace Project No.: 92491393

QC Batch: 411440 | Analysis Method: EPA 9320
QC Batch Method: EPA 9320 | Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92491393002, 92491393003, 92491393004, 92491393005, 92491393006, 92491393007, 92491393008

METHOD BLANK: 1990348 Matrix: Water
Associated Lab Samples: 92491393002, 92491393003, 92491393004, 92491393005, 92491393006, 92491393007, 92491393008

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.805 ± 0.381 (0.635) C:74% T:86%	pCi/L	09/09/20 11:25	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: BRANCH BCD NETWORK
Pace Project No.: 92491393

QC Batch: 411439
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92491393001, 92491393009, 92491393010, 92491393011, 92491393012, 92491393013, 92491393014, 92491393015

METHOD BLANK: 1990347 Matrix: Water
Associated Lab Samples: 92491393001, 92491393009, 92491393010, 92491393011, 92491393012, 92491393013, 92491393014, 92491393015

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.274 ± 0.326 (0.685) C:63% T:88%	pCi/L	09/09/20 12:01	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: BRANCH BCD NETWORK
Pace Project No.: 92491393

QC Batch: 412359 Analysis Method: EPA 9315
QC Batch Method: EPA 9315 Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92491393001, 92491393002, 92491393003, 92491393004, 92491393005, 92491393006, 92491393007, 92491393008

METHOD BLANK: 1994519 Matrix: Water
Associated Lab Samples: 92491393001, 92491393002, 92491393003, 92491393004, 92491393005, 92491393006, 92491393007, 92491393008

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0753 ± 0.0856 (0.159) C:96% T:NA	pCi/L	09/08/20 17:44	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: BRANCH BCD NETWORK
Pace Project No.: 92491393

QC Batch: 411375 | Analysis Method: EPA 9315
QC Batch Method: EPA 9315 | Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92491393009, 92491393010, 92491393011, 92491393012, 92491393013, 92491393014, 92491393015

METHOD BLANK: 1989998 | Matrix: Water
Associated Lab Samples: 92491393009, 92491393010, 92491393011, 92491393012, 92491393013, 92491393014, 92491393015

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.135 ± 0.115 (0.203) C:91% T:NA	pCi/L	09/03/20 16:47	

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QUALIFIERS

Project: BRANCH BCD NETWORK
Pace Project No.: 92491393

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval). Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
R1	RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRANCH BCD NETWORK
Pace Project No.: 92491393

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92491393001	**BRGWA-12I**				
92491393002	**BRGWA-12S**				
92491393003	**BRGWA-23S**				
92491393004	**BRGWC-25I**				
92491393005	**BRGWC-29I**				
92491393006	**BRGWC-27I**				
92491393007	**BRGWC-32S**				
92491393008	**BRGWC-30I**				
92491393009	**BRGWC-45**				
92491393010	**BRGWC-47**				
92491393011	**BRGWC-50**				
92491393012	**BRGWC-52I**				
92491393001	**BRGWA-12I**	EPA 3005A	561324	EPA 6020B	561396
92491393002	**BRGWA-12S**	EPA 3005A	561324	EPA 6020B	561396
92491393003	**BRGWA-23S**	EPA 3005A	561324	EPA 6020B	561396
92491393004	**BRGWC-25I**	EPA 3005A	561963	EPA 6020B	562039
92491393005	**BRGWC-29I**	EPA 3005A	561963	EPA 6020B	562039
92491393006	**BRGWC-27I**	EPA 3005A	561963	EPA 6020B	562039
92491393007	**BRGWC-32S**	EPA 3005A	561963	EPA 6020B	562039
92491393008	**BRGWC-30I**	EPA 3005A	561963	EPA 6020B	562039
92491393009	**BRGWC-45**	EPA 3005A	561964	EPA 6020B	562041
92491393010	**BRGWC-47**	EPA 3005A	561964	EPA 6020B	562041
92491393011	**BRGWC-50**	EPA 3005A	561964	EPA 6020B	562041
92491393012	**BRGWC-52I**	EPA 3005A	561964	EPA 6020B	562041
92491393013	**DUP-2**	EPA 3005A	561964	EPA 6020B	562041
92491393014	**FB-2**	EPA 3005A	561964	EPA 6020B	562041
92491393015	**EB-1**	EPA 3005A	561964	EPA 6020B	562041
92491393001	**BRGWA-12I**	EPA 7470A	561377	EPA 7470A	561555
92491393002	**BRGWA-12S**	EPA 7470A	561377	EPA 7470A	561555
92491393003	**BRGWA-23S**	EPA 7470A	561377	EPA 7470A	561555
92491393004	**BRGWC-25I**	EPA 7470A	561900	EPA 7470A	562049
92491393005	**BRGWC-29I**	EPA 7470A	561900	EPA 7470A	562049
92491393006	**BRGWC-27I**	EPA 7470A	561900	EPA 7470A	562049
92491393007	**BRGWC-32S**	EPA 7470A	561900	EPA 7470A	562049
92491393008	**BRGWC-30I**	EPA 7470A	561900	EPA 7470A	562049
92491393009	**BRGWC-45**	EPA 7470A	561900	EPA 7470A	562049
92491393010	**BRGWC-47**	EPA 7470A	561900	EPA 7470A	562049
92491393011	**BRGWC-50**	EPA 7470A	561900	EPA 7470A	562049
92491393012	**BRGWC-52I**	EPA 7470A	561900	EPA 7470A	562049
92491393013	**DUP-2**	EPA 7470A	561900	EPA 7470A	562049
92491393014	**FB-2**	EPA 7470A	561900	EPA 7470A	562049
92491393015	**EB-1**	EPA 7470A	561894	EPA 7470A	562048
92491393001	**BRGWA-12I**	EPA 9315	412359		
92491393002	**BRGWA-12S**	EPA 9315	412359		
92491393003	**BRGWA-23S**	EPA 9315	412359		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRANCH BCD NETWORK
Pace Project No.: 92491393

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92491393004	**BRGWC-25I**	EPA 9315	412359		
92491393005	**BRGWC-29I**	EPA 9315	412359		
92491393006	**BRGWC-27I**	EPA 9315	412359		
92491393007	**BRGWC-32S**	EPA 9315	412359		
92491393008	**BRGWC-30I**	EPA 9315	412359		
92491393009	**BRGWC-45**	EPA 9315	411375		
92491393010	**BRGWC-47**	EPA 9315	411375		
92491393011	**BRGWC-50**	EPA 9315	411375		
92491393012	**BRGWC-52I**	EPA 9315	411375		
92491393013	**DUP-2**	EPA 9315	411375		
92491393014	**FB-2**	EPA 9315	411375		
92491393015	**EB-1**	EPA 9315	411375		
92491393001	**BRGWA-12I**	EPA 9320	411439		
92491393002	**BRGWA-12S**	EPA 9320	411440		
92491393003	**BRGWA-23S**	EPA 9320	411440		
92491393004	**BRGWC-25I**	EPA 9320	411440		
92491393005	**BRGWC-29I**	EPA 9320	411440		
92491393006	**BRGWC-27I**	EPA 9320	411440		
92491393007	**BRGWC-32S**	EPA 9320	411440		
92491393008	**BRGWC-30I**	EPA 9320	411440		
92491393009	**BRGWC-45**	EPA 9320	411439		
92491393010	**BRGWC-47**	EPA 9320	411439		
92491393011	**BRGWC-50**	EPA 9320	411439		
92491393012	**BRGWC-52I**	EPA 9320	411439		
92491393013	**DUP-2**	EPA 9320	411439		
92491393014	**FB-2**	EPA 9320	411439		
92491393015	**EB-1**	EPA 9320	411439		
92491393001	**BRGWA-12I**	Total Radium Calculation	413385		
92491393002	**BRGWA-12S**	Total Radium Calculation	413385		
92491393003	**BRGWA-23S**	Total Radium Calculation	413385		
92491393004	**BRGWC-25I**	Total Radium Calculation	413385		
92491393005	**BRGWC-29I**	Total Radium Calculation	413385		
92491393006	**BRGWC-27I**	Total Radium Calculation	413385		
92491393007	**BRGWC-32S**	Total Radium Calculation	413385		
92491393008	**BRGWC-30I**	Total Radium Calculation	413442		
92491393009	**BRGWC-45**	Total Radium Calculation	413385		
92491393010	**BRGWC-47**	Total Radium Calculation	413385		
92491393011	**BRGWC-50**	Total Radium Calculation	413385		
92491393012	**BRGWC-52I**	Total Radium Calculation	413385		
92491393013	**DUP-2**	Total Radium Calculation	413385		
92491393014	**FB-2**	Total Radium Calculation	413385		
92491393015	**EB-1**	Total Radium Calculation	413385		
92491393001	**BRGWA-12I**	EPA 300.0 Rev 2.1 1993	561236		
92491393002	**BRGWA-12S**	EPA 300.0 Rev 2.1 1993	561236		
92491393003	**BRGWA-23S**	EPA 300.0 Rev 2.1 1993	561236		

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Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRANCH BCD NETWORK
Pace Project No.: 92491393

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92491393004	**BRGWC-25I**	EPA 300.0 Rev 2.1 1993	561506		
92491393005	**BRGWC-29I**	EPA 300.0 Rev 2.1 1993	561506		
92491393006	**BRGWC-27I**	EPA 300.0 Rev 2.1 1993	561506		
92491393007	**BRGWC-32S**	EPA 300.0 Rev 2.1 1993	561506		
92491393008	**BRGWC-30I**	EPA 300.0 Rev 2.1 1993	561506		
92491393009	**BRGWC-45**	EPA 300.0 Rev 2.1 1993	562094		
92491393010	**BRGWC-47**	EPA 300.0 Rev 2.1 1993	562094		
92491393011	**BRGWC-50**	EPA 300.0 Rev 2.1 1993	562094		
92491393012	**BRGWC-52I**	EPA 300.0 Rev 2.1 1993	562094		
92491393013	**DUP-2**	EPA 300.0 Rev 2.1 1993	562094		
92491393014	**FB-2**	EPA 300.0 Rev 2.1 1993	562094		
92491393015	**EB-1**	EPA 300.0 Rev 2.1 1993	562094		

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Pace Analytical

Sample Condition Upon Recei

WO# : 92491393

92491393

Client Name: GA Power

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☑ Commercial ☐ Pace Other _____

Tracking #: _____

Proj. Due Date:
Proj. Name:

Custody Seal on Cooler/Box Present: ☑ yes ☐ no Seals intact: ☑ yes ☐ no

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other _____

Thermometer Used 233

Type of Ice: (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 3.6°C

Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: 5/19/20 CH

Temp should be above freezing to 6°C

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, Wi-DRO (water)	☐Yes ☑No	Initial when completed / Lot # of added preservative
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
~~Headspace in VOA Vials (>6mm):~~	~~☐Yes ☐No ☑N/A~~	~~15.~~
Trip Blank Present:	☐Yes ☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):		

~~Client Notification/ Resolution:~~ ~~Field Data Required? Y / N~~

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: _____

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

F-ALLC003rev.3, 11September2006

Pace Analytical	Document Name: Bottle Identification Form (BIF)	Document Issued: March 14, 2019 Page 1 of 1
	Document No.: F-CAR-CS-043-Rev.00	Issuing Authority: Pace Carolinas Quality Office

Project # **WO# : 92491393**

PM: KLH1 Due Date: 09/02/20

CLIENT: GA-GA Power

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottle

Matrix	Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP1S-1 liter Plastic H2SO4 (pH < 2) (Cl-)	BP4S-125 mL Plastic H2SO4 (pH < 2)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4Z-125 mL Plastic NaOH (pH > 12) (Cl-)	BP4C-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)
	1		—					—																					
	2		—					—																					
	3		—					—																					
	4																												
	5																												
	6																												
	7																												
	8																												
	9																												
	10																												
	11																												
	12																												

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification O
Out of hold, Incorrect preservative, out of temp, Incorrect containers.

Pace Analytical

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-In Number Here

ALL SHADED AREAS are for LAB USE ONLY

Company: Georgia Power - Coal Combustion Residuals

Billing Information:

Address: 2480 Maner Road
Atlanta, GA 30339

Report To: Joju Abraham

Email To: scsinvoices@southernco.com

Copy To: Golder

Site Collection Info/Address: Plant Branch

phone: (404) 506-7239
Email: jabraham@southernco.com

State: Georgia City: Milledgeville Time Zone Collected:
[ ]PT [ ]MT [ ]CT [X]ET

Phone: (404) 506-7239
Email: jabraham@southernco.com

Project Name: Plant Branch BCD Network
Project # CCR

Pace Profile#

Collected By (print): Travis Martinez, Andrea McClure

Purchase Order #
Quote #

Pace Project Manager:
kevin.herring@pacelabs.com

Collected By (signature):

Turnaround Date Required:

Immediately Packed on Ice:
[X] Yes [ ] No

Rush:
[ ] Same Day [ ] Next Day
[ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day
(Expedite Charges Apply)

Field Filtered (if applicable):
[ ] Yes [ ] No

Analysis: _____

Container Preservative Type **: 1 | | | | 1 | | 1 | | | | |

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Water (WT), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	pH	# of Ctns	Metals App IV - see comments	Fluoride	Radium 226.228	Mercury	Lab Sample # / Comments
BRGWA-12I	GW	G	8-18-2020	1305			6.25	4	X	X	X	X	92491393
BRGWA-12S	GW	G	8-18-2020	1625			5.75	4	X	X	X	X	
BRGWA-23S	GW	G	8-18-2020	1528			5.56	4	X	X	X	X	

Analyses

Lab Profile/Line:

Lab Sample Receipt Checklist:
Custody Seals Present/Intact Y N NA
Custody Signatures Present Y N NA
Collector Signature Present Y N NA
Bottles Intact Y N NA
Correct Bottles Y N NA
Sufficient Volume Y N NA
Samples Received on Ice Y N NA
VOA - Headspace Acceptable Y N NA
USDA Regulated Soils Y N NA
Samples in Holding Time Y N NA
Residual Chlorine Present Y N NA
Cl Strips: _____
Sample pH Acceptable Y N NA
pH Strips: _____
Sulfide Present Y N NA
Lead Acetate Strips: _____

LAB USE ONLY:
Lab Sample # / Comments:

(App IV Metals): Sb, As, Ba, Be, Cd, Cr, Co, Hg, Pb, Li, Mo, Se, Tl

Type of Ice Used: (Wet) Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y (N) N/A

Lab Tracking #:

Samples received via:
FEDEX UPS Client (Courier) Pace Courier

LAB Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: 233
Cooler 1 Temp Upon Receipt: 2 oC
Cooler 1 Therm Corr. Factor: 0 oC
Cooler 1 Corrected Temp: 2 oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Golder	8-19-2020/0815		08/19/20 1010
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: 1 of: 1

Pace Analytical

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields

LAB USE ONLY- Affi... Label Here or List Pace Workorder Number or

WO# : 92491393

PM: KLH1 Due Date: 09/02/20

CLIENT: GA-GA Power

ALL S...

Container Prese...

1				1							

** Preservative Types (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) ...
(6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate,
(C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

Company: Georgia Power - Coal Combustion Residuals	Billing Information:	
Address: 2480 Maner Road Atlanta, GA 30339		
Report To: Joju Abraham	Email To: scsinvoices@southernco.com	
Copy To: Golder	Site Collection Info/Address: Plant Branch	
phone: (404) 506-7239 Email: jabraham@southernco.com	State: Georgia City: Milledgeville Time Zone Collected: [ ]PT [ ]MT [ ]CT [X]ET	
Phone: (404) 506-7239 Email: jabraham@southernco.com	Project Name: Plant Branch BCD Network Project # CCR	Pace Profile#
Collected By (print): Travis Martinez, Andrea McClure	Purchase Order # Quote #	Pace Project Manager: kevin.herring@pacelabs.com
Collected By (signature):	Turnaround Date Required:	Immediately Packed on Ice: [X] Yes [ ] No
	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply)	Field Filtered (if applicable): [ ] Yes [ ] No Analysis: _____

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Water (WT), Other (OT)

Analyses

Lab Profile/Line:

Lab Sample Receipt Checklist:
Custody Seals Present/Intact Y N NA
Custody Signatures Present Y N NA
Collector Signature Present Y N NA
Bottles Intact Y N NA
Correct Bottles Y N NA
Sufficient Volume Y N NA
Samples Received on Ice Y N NA
VOA - Headspace Acceptable Y N NA
USDA Regulated Soils Y N NA
Samples In Holding Time Y N NA
Residual Chlorine Present Y N NA
Cl Strips: _____
Sample pH Acceptable Y N NA
pH Strips: _____
Sulfide Present Y N NA
Lead Acetate Strips: _____

LAB USE ONLY:
Lab Sample # / Comments:

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Time	Composite End Date	Time	pH	# of Ctns	Metals App IV - see comments	Fluoride	Radium 226.228	Mercury	Lab Sample # / Comments
BRGWC-25I	GW	G	8-19-2020	0950			6.32	4	X	X	X	X	004
BRGWC-29I	GW	G	8-19-2020	1050			4.67	4	X	X	X	X	005
BRGWC-27I	GW	G	8-19-2020	1205			5.81	4	X	X	X	X	006
BRGWC-32S	GW	G	8-19-2020	1320			5.97	4	X	X	X	X	007
BRGWC-30I	GW	G	8-19-2020	1505			6.36	4	X	X	X	X	008

(App IV Metals): Sb, As, Ba, Be, Cd, Cr, Co, Hg, Pb, Li, Mo, Se, Tl

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #:

Samples received via:
FEDEX UPS Client Courier Pace Courier

LAB Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: THB230
Cooler 1 Temp Upon Receipt: 1.5 oC
Cooler 1 Therm Corr. Factor: 0.0 oC
Cooler 1 Corrected Temp: 1.5 oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Emily Golder	8-20-2020 0815	K. Wellington Pace	8/20/20 1003
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-In Number Here

ALL SHADED AREAS are for LAB USE ONLY

Company: Georgia Power - Coal Combustion Residuals	Billing Information:
Address: 2480 Maner Road Atlanta, GA 30339	
Report To: Joju Abraham	Email To: scsinvoices@southernco.com
Copy To: Golder	Site Collection Info/Address: Plant Branch
phone: (404) 506-7239 Email: jabraham@southernco.com	State: Georgia City: Milledgeville Time Zone Collected: [ ]PT [ ]MT [ ]CT [X]ET
Phone: (404) 506-7239 Email: jabraham@southernco.com	Project Name: Plant Branch BCD Network Project # CCR — Pace Profile#
Collected By (print): Travis Martinez, Andrea McClure	Purchase Order # Quote # — Pace Project Manager: kevin.herring@pacelabs.com
Collected By (signature):	Turnaround Date Required — Immediately Packed on Ice: [X] Yes [ ] No
	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply) — Field Filtered (if applicable): [ ] Yes [ ] No Analysis:

Container Preservative Type **: 1 | | | | 1 | 1 | | | | |

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Water (WT), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	pH	# of Ctns	Metals App IV - see comments	Fluoride	Radium 226.228	Mercury	Lab Sample # / Comments
													92491343
BRGWC-45	GW	G	8-20-2020	1212			5.86	4	X	X	X	X	009
BRGWC-47	GW	G	8-20-2020	1400			5.75	4	X	X	X	X	010
BRGWC-50	GW	G	8-20-2020	0932			5.26	4	X	X	X	X	011
BRGWC-52I	GW	G	8-20-2020	0945			6.85	6	X	X	X	X	Rad-3 (+2 Radium) 012
Dup-2	GW	G	8-20-2020	—			—	4	X	X	X	X	013
FB-2	WT	G	8-20-2020	0920			—	4	X	X	X	X	014
EB-1	WT	G	8-20-2020	1245			—	4	X	X	X	X	015

Analyses

Lab Profile/Line:

Lab Sample Receipt Checklist:
Custody Seals Present/Intact Y N NA
Custody Signatures Present Y N NA
Collector Signature Present Y N NA
Bottles Intact Y N NA
Correct Bottles Y N NA
Sufficient Volume Y N NA
Samples Received on Ice Y N NA
VOA - Headspace Acceptable Y N NA
USDA Regulated Soils Y N NA
Samples in Holding Time Y N NA
Residual Chlorine Present Y N NA
Cl Strips: _____
Sample pH Acceptable Y N NA
pH Strips: _____
Sulfide Present Y N NA
Lead Acetate Strips: _____

LAB USE ONLY:
Lab Sample # / Comments:

(App IV Metals): Sb, As, Ba, Be, Cd, Cr, Co, Hg, Pb, Li, Mo, Se, Tl

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #:

Samples received via: FEDEX UPS Client Courier Pace Courier

LAB Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: 233
Cooler 1 Temp Upon Receipt: 3.8 oC
Cooler 1 Therm Corr. Factor: 0 oC
Cooler 1 Corrected Temp: 3.8 oC
Comments:

Relinquished by/Company: (Signature) A. McClure/Golder	Date/Time: 8/21/20 1108	Received by/Company: (Signature) K. Williford/PACO	Date/Time: 8/21/20 1108	MTJL LAB USE ONLY Table #:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Acctnum: Template: Prelogin:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	PM: PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

Quality Control Sample Performance Assessment

Pace Analytical
www.pacelabs.com

Test: Ra-226
Analyst: LAL
Date: 9/3/2020
Worklist: 55839
Matrix: DW

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	1989998
MB concentration:	0.135
M/B Counting Uncertainty:	0.113
MB MDC:	0.203
MB Numerical Performance Indicator:	2.34
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	N
	LCS55839	LCSD55839
Count Date:	9/4/2020	
Spike I.D.:	19-033	
Decay Corrected Spike Concentration (pCi/mL):	24.045	
Volume Used (mL):	0.10	
Aliquot Volume (L, g, F):	0.502	
Target Conc. (pCi/L, g, F):	4.785	
Uncertainty (Calculated):	0.057	
Result (pCi/L, g, F):	4.098	
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.782	
Numerical Performance Indicator:	-1.72	
Percent Recovery:	85.64%	
Status vs Numerical Indicator:	N/A	
Status vs Recovery:	Pass	
Upper % Recovery Limits:	125%	
Lower % Recovery Limits:	75%	

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Sample I.D.:	92491393012	
Duplicate Sample I.D.	92491393012DUP	
Sample Result (pCi/L, g, F):	0.684	
Sample Result Counting Uncertainty (pCi/L, g, F):	0.375	
Sample Duplicate Result (pCi/L, g, F):	0.377	
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.254	
Are sample and/or duplicate results below RL?	See Below ##	
Duplicate Numerical Performance Indicator:	1.327 OK	92491393012
Duplicate RPD:	57.84%	92491393012DUP
Duplicate Status vs Numerical Indicator:	N/A	
Duplicate Status vs RPD:	Fail***	
% RPD Limit:	25%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

~~***Batch must be re-prepped due to unacceptable precision.~~ N/A
LAM 9/4/2020

LAM 9/4/2020

Aug. 4, 2020

Quality Control Sample Performance Assessment

Pace Analytical™

Test:	Ra-226
Analyst:	LAL
Date:	9/3/2020
Worklist:	55839
Matrix:	DW

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	1989998
MB concentration:	0.135
MB Counting Uncertainty:	0.113
MB MDC:	0.203
MB Numerical Performance Indicator:	2.34
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	N
	LCS55839	LCSD55839
Count Date:	9/4/2020	
Spike I.D.:	19-033	
Decay Corrected Spike Concentration (pCi/mL):	24.045	
Volume Used (mL):	0.10	
Aliquot Volume (L, g, F):	0.502	
Target Conc. (pCi/L, g, F):	4.785	
Uncertainty (Calculated):	0.057	
Result (pCi/L, g, F):	4.098	
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.782	
Numerical Performance Indicator:	-1.72	
Percent Recovery:	85.64%	
Status vs Numerical Indicator:	N/A	
Status vs Recovery:	Pass	
Upper % Recovery Limits:	125%	
Lower % Recovery Limits:	75%	

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	92491653008	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	92491663008DUP	
Sample Result (pCi/L, g, F):	0.467	
Sample Result Counting Uncertainty (pCi/L, g, F):	0.143	
Sample Duplicate Result (pCi/L, g, F):	0.359	
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.256	
Are sample and/or duplicate results below RL?	See Below ##	
Duplicate Numerical Performance Indicator:	0.728 OK	92491663008
Duplicate RPD:	26.34%	92491663008DUP
Duplicate Status vs Numerical Indicator:	N/A	
Duplicate Status vs RPD:	Fail***	
% RPD Limit:	25%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

~~***Batch must be re-prepped due to unacceptable precision.~~ N/A LAM 9/4/2020

Quality Control Sample Performance Assessment

Test: Ra-226
Analyst: LAL
Date: 9/8/2020
Worklist: 55962
Matrix: DW

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	1994519
MB concentration:	0.075
MB Counting Uncertainty:	0.086
MB MDC:	0.159
MB Numerical Performance Indicator:	1.74
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS55962	LCSD55962
Count Date:	9/9/2020	9/9/2020
Spike I.D.:	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.045	24.045
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.506	0.506
Target Conc. (pCi/L, g, F):	4.757	4.755
Uncertainty (Calculated):	0.057	0.057
Result (pCi/L, g, F):	4.703	4.482
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.784	0.767
Numerical Performance Indicator:	-0.13	-0.69
Percent Recovery:	98.88%	94.27%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS55962	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD55962	
Sample Result (pCi/L, g, F):	4.703	
Sample Result Counting Uncertainty (pCi/L, g, F):	0.784	
Sample Duplicate Result (pCi/L, g, F):	4.482	
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.767	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	0.395	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	4.77%	
Duplicate Status vs Numerical Indicator:	N/A	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	25%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

LAM 9/9/2020

9.9.20

Quality Control Sample Performance Assessment

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www.pacelabs.com

Test:	Ra-226
Analyst:	LAL
Date:	9/8/2020
Worklist:	55962
Matrix:	DW

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	1994519
MB concentration:	0.075
MB Counting Uncertainty:	0.085
MB MDC:	0.159
MB Numerical Performance Indicator:	1.74
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	N
	LCS55962	LCSD55962
Count Date:	9/9/2020	
Spike I.D.:	19-033	
Decay Corrected Spike Concentration (pCi/mL):	24.045	
Volume Used (mL):	0.10	
Aliquot Volume (L, g, F):	0.506	
Target Conc. (pCi/L, g, F):	4.757	
Uncertainty (Calculated):	0.057	
Result (pCi/L, g, F):	4.703	
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.784	
Numerical Performance Indicator:	-0.13	
Percent Recovery:	98.88%	
Status vs Numerical Indicator:	N/A	
Status vs Recovery:	Pass	
Upper % Recovery Limits:	125%	
Lower % Recovery Limits:	75%	

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	92491393007	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	92491393007DUP	
Sample Result (pCi/L, g, F):	0.053	
Sample Result Counting Uncertainty (pCi/L, g, F):	0.088	
Sample Duplicate Result (pCi/L, g, F):	0.094	
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.086	
Are sample and/or duplicate results below RL?	See Below ##	
Duplicate Numerical Performance Indicator:	-0.651	92491393007
Duplicate RPD:	55.49%	92491393007DUP
Duplicate Status vs Numerical Indicator:	N/A	
Duplicate Status vs RPD:	Fail***	
% RPD Limit:	25%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

~~***Batch must be re-prepped due to unacceptable precision.~~ N/A
LAM 9/9/2020

LAM 9/9/2020

LAM 9.9.20

Quality Control Sample Performance Assessment

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Test:	Ra-228
Analyst:	VAL
Date:	9/2/2020
Worklist:	55853
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	1990347
MB concentration:	0.274
M/B 2 Sigma CSU:	0.326
MB MDC:	0.685
MB Numerical Performance Indicator:	1.55
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS55853	LCSD55853
Count Date:	9/8/2020	9/9/2020
Spike I.D.:	20-030	20-030
Decay Corrected Spike Concentration (pCi/mL):	38.472	38.472
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.810	0.812
Target Conc. (pCi/L, g, F):	4.748	4.736
Uncertainty (Calculated):	0.233	0.232
Result (pCi/L, g, F):	4.963	5.603
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.118	1.205
Numerical Performance Indicator:	0.37	1.38
Percent Recovery:	104.53%	118.30%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS55853	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD55853	
Sample Result (pCi/L, g, F):	4.963	
Sample Result 2 Sigma CSU (pCi/L, g, F):	1.118	
Sample Duplicate Result (pCi/L, g, F):	5.603	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.205	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	-0.762	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	12.36%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

JJ 9-10-20

9/10/2020

Quality Control Sample Performance Assessment

Pace Analytical

Test:	Ra-226
Analyst:	VAL
Date:	9/3/2020
Worklist:	55854
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	1990348
MB concentration:	0.805
M/B 2 Sigma CSU:	0.381
MB MDC:	0.635
MB Numerical Performance Indicator:	4.14
MB Status vs Numerical Indicator:	Fail*
MB Status vs. MDC:	See Comment*

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS55854	LCSD55854
Count Date:	9/9/2020	9/9/2020
Spike I.D.:	20-030	20-030
Decay Corrected Spike Concentration (pCi/mL):	38.472	38.472
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.815	0.812
Target Conc. (pCi/L, g, F):	4.716	4.741
Uncertainty (Calculated):	0.231	0.232
Result (pCi/L, g, F):	5.944	5.257
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.289	1.159
Numerical Performance Indicator:	1.83	0.86
Percent Recovery:	125.98%	110.89%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS55854	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD55854	
Sample Result (pCi/L, g, F):	5.944	
Sample Result 2 Sigma CSU (pCi/L, g, F):	1.289	
Sample Duplicate Result (pCi/L, g, F):	5.257	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.159	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	0.777	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	12.74%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:
*The method blank result is below the reporting limit for this analysis and is acceptable.

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

March 26, 2020

Joju Abraham
Georgia Power - Coal Combustion Residuals
2480 Maner Road
Atlanta, GA 30339

RE: Project: PLANT BRANCH AP-BCD 2ND SA
Pace Project No.: 2629733

Dear Joju Abraham:
Enclosed are the analytical results for sample(s) received by the laboratory between March 04, 2020 and March 06, 2020. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tyler Forney for
Kevin Herring
kevin.herring@pacelabs.com
(704)875-9092
HORIZON Database Administrator

Enclosures

cc: Daniela Herrera, Golder
Ben Hodges, Georgia Power
Jimmy Jones, Golder Associates Inc.
Kristen Jurinko
Julie Lehrman, Golder Associates Inc.
Lauren Petty, Southern Company Services, Inc.
Carolyn Powrozek, Golder
Dawn Prell, Golder Associates Inc.
Tim Richards, Golder Associates - Atlanta

REPORT OF LABORATORY ANALYSIS

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Peachtree Corners, GA 30092
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CERTIFICATIONS

Project: PLANT BRANCH AP-BCD 2ND SA
Pace Project No.: 2629733

Pace Analytical Services Atlanta
110 Technology Parkway Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
Georgia DW Microbiology Certification #: 812
North Carolina Certification #: 381
South Carolina Certification #: 98011001
Virginia Certification #: 460204

Pace Analytical Services Asheville
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

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SAMPLE SUMMARY

Project: PLANT BRANCH AP-BCD 2ND SA
Pace Project No.: 2629733

Lab ID	Sample ID	Matrix	Date Collected	Date Received
2629733001	**BRGWA-12S**	Water	03/03/20 15:22	03/04/20 10:45
2629733002	**BRGWA-12I**	Water	03/03/20 17:15	03/04/20 10:45
2629733003	**BRGWA-23S**	Water	03/04/20 11:20	03/05/20 15:30
2629733004	**BRGWC-47**	Water	03/04/20 11:28	03/05/20 15:30
2629733005	**FB-1**	Water	03/04/20 10:55	03/05/20 15:30
2629733006	**EB-1**	Water	03/04/20 11:11	03/05/20 15:30
2629733007	**BRGWC-27I**	Water	03/04/20 12:46	03/05/20 15:30
2629733008	**BRGWC-50**	Water	03/04/20 13:33	03/05/20 15:30
2629733009	**BRGWC-25I**	Water	03/04/20 14:25	03/05/20 15:30
2629733010	**BRGWC-52I**	Water	03/04/20 15:10	03/05/20 15:30
2629733011	**DUP-1**	Water	03/04/20 00:00	03/05/20 15:30
2629733012	**DUP-2**	Water	03/04/20 00:00	03/05/20 15:30
2629733013	**EB-2**	Water	03/04/20 16:03	03/05/20 15:30
2629733014	**BRGWC-29I**	Water	03/04/20 16:05	03/05/20 15:30
2629733015	**BRGWC-30I**	Water	03/05/20 09:10	03/06/20 09:45
2629733016	**BRGWC-32S**	Water	03/05/20 10:25	03/06/20 09:45
2629733017	**BRGWC-45**	Water	03/05/20 16:05	03/06/20 09:45
2629733018	**EB-3**	Water	03/05/20 15:30	03/06/20 09:45
2629733019	**FB-3**	Water	03/05/20 13:00	03/06/20 09:45

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SAMPLE ANALYTE COUNT

Project: PLANT BRANCH AP-BCD 2ND SA
Pace Project No.: 2629733

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
2629733001	**BRGWA-12S**	EPA 6010D	DRB	1	PASI-GA
		EPA 6020B	CSW	12	PASI-GA
		SM 2540C	NJ1	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	BRJ	3	PASI-A
2629733002	**BRGWA-12I**	EPA 6010D	DRB	1	PASI-GA
		EPA 6020B	CSW	12	PASI-GA
		SM 2540C	NJ1	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	BRJ	3	PASI-A
2629733003	**BRGWA-23S**	EPA 6010D	DRB	1	PASI-GA
		EPA 6020B	CSW	12	PASI-GA
		SM 2540C	NJ1	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
2629733004	**BRGWC-47**	EPA 6010D	DRB	1	PASI-GA
		EPA 6020B	CSW	12	PASI-GA
		SM 2540C	NJ1	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
2629733005	**FB-1**	EPA 6010D	DRB	1	PASI-GA
		EPA 6020B	CSW	12	PASI-GA
		SM 2540C	NJ1	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
2629733006	**EB-1**	EPA 6010D	DRB	1	PASI-GA
		EPA 6020B	CSW	12	PASI-GA
		SM 2540C	NJ1	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
2629733007	**BRGWC-27I**	EPA 6010D	DRB	1	PASI-GA
		EPA 6020B	CSW	12	PASI-GA
		SM 2540C	NJ1	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
2629733008	**BRGWC-50**	EPA 6010D	DRB	1	PASI-GA
		EPA 6020B	CSW	12	PASI-GA
		SM 2540C	NJ1	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
2629733009	**BRGWC-25I**	EPA 6010D	DRB	1	PASI-GA
		EPA 6020B	CSW	12	PASI-GA
		SM 2540C	NJ1	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
2629733010	**BRGWC-52I**	EPA 6010D	DRB	1	PASI-GA

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SAMPLE ANALYTE COUNT

Project: PLANT BRANCH AP-BCD 2ND SA
Pace Project No.: 2629733

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 6020B	CSW	12	PASI-GA
		SM 2540C	NJ1	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
2629733011	**DUP-1**	EPA 6010D	DRB	1	PASI-GA
		EPA 6020B	CSW	12	PASI-GA
		SM 2540C	NJ1	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
2629733012	**DUP-2**	EPA 6010D	DRB	1	PASI-GA
		EPA 6020B	CSW	12	PASI-GA
		SM 2540C	NJ1	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
2629733013	**EB-2**	EPA 6010D	DRB	1	PASI-GA
		EPA 6020B	CSW	12	PASI-GA
		SM 2540C	NJ1	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
2629733014	**BRGWC-29I**	EPA 6010D	DRB	1	PASI-GA
		EPA 6020B	CSW	12	PASI-GA
		SM 2540C	NJ1	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
2629733015	**BRGWC-30I**	EPA 6010D	DRB	1	PASI-GA
		EPA 6020B	CSW	12	PASI-GA
		SM 2540C	NJ1	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
2629733016	**BRGWC-32S**	EPA 6010D	DRB	1	PASI-GA
		EPA 6020B	CSW	12	PASI-GA
		SM 2540C	NJ1	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
2629733017	**BRGWC-45**	EPA 6010D	KLH	1	PASI-GA
		EPA 6020B	CSW	12	PASI-GA
		SM 2540C	NJ1	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
2629733018	**EB-3**	EPA 6010D	KLH	1	PASI-GA
		EPA 6020B	CSW	12	PASI-GA
		SM 2540C	NJ1	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
2629733019	**FB-3**	EPA 6010D	KLH	1	PASI-GA
		EPA 6020B	CSW	12	PASI-GA

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SAMPLE ANALYTE COUNT

Project: PLANT BRANCH AP-BCD 2ND SA
Pace Project No.: 2629733

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 2540C	NJ1	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A

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SUMMARY OF DETECTION

Project: PLANT BRANCH AP-BCD 2ND SA
Pace Project No.: 2629733

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
2629733001	**BRGWA-12S**					
	Field pH	5.94	Std. Units		03/26/20 14:34	
EPA 6010D	Calcium	6.8	mg/L	0.50	03/11/20 18:31	
EPA 6020B	Arsenic	0.0015J	mg/L	0.0050	03/10/20 20:27	
EPA 6020B	Barium	0.060	mg/L	0.010	03/10/20 20:27	
EPA 6020B	Boron	0.0065J	mg/L	0.10	03/10/20 20:27	
EPA 6020B	Chromium	0.0028J	mg/L	0.010	03/10/20 20:27	
SM 2540C	Total Dissolved Solids	72.0	mg/L	10.0	03/06/20 12:46	
EPA 300.0 Rev 2.1 1993	Chloride	3.2	mg/L	1.0	03/07/20 16:02	
EPA 300.0 Rev 2.1 1993	Sulfate	0.51J	mg/L	1.0	03/07/20 16:02	
2629733002	**BRGWA-12I**					
	Field pH	6.33	Std. Units		03/26/20 14:34	
EPA 6010D	Calcium	19.4	mg/L	0.50	03/11/20 18:34	
EPA 6020B	Antimony	0.0063	mg/L	0.0030	03/10/20 20:50	
EPA 6020B	Arsenic	0.0023J	mg/L	0.0050	03/10/20 20:50	
EPA 6020B	Barium	0.076	mg/L	0.010	03/10/20 20:50	
EPA 6020B	Boron	0.010J	mg/L	0.10	03/10/20 20:50	
EPA 6020B	Chromium	0.0026J	mg/L	0.010	03/10/20 20:50	
EPA 6020B	Lithium	0.0033J	mg/L	0.030	03/10/20 20:50	
SM 2540C	Total Dissolved Solids	115	mg/L	10.0	03/06/20 12:46	
EPA 300.0 Rev 2.1 1993	Chloride	2.6	mg/L	1.0	03/07/20 16:46	
EPA 300.0 Rev 2.1 1993	Fluoride	0.056J	mg/L	0.30	03/07/20 16:46	
EPA 300.0 Rev 2.1 1993	Sulfate	1.8	mg/L	1.0	03/07/20 16:46	
2629733003	**BRGWA-23S**					
	Field pH	5.7	Std. Units		03/26/20 14:34	
EPA 6010D	Calcium	11.5	mg/L	0.50	03/11/20 22:00	
EPA 6020B	Barium	0.087	mg/L	0.010	03/12/20 21:20	
EPA 6020B	Boron	0.044J	mg/L	0.10	03/12/20 21:20	
EPA 6020B	Chromium	0.0019J	mg/L	0.010	03/12/20 21:20	
EPA 6020B	Cobalt	0.0012J	mg/L	0.0050	03/12/20 21:20	
EPA 6020B	Lithium	0.0074J	mg/L	0.030	03/12/20 21:20	
EPA 6020B	Selenium	0.0019J	mg/L	0.010	03/12/20 21:20	
SM 2540C	Total Dissolved Solids	118	mg/L	10.0	03/11/20 11:14	
EPA 300.0 Rev 2.1 1993	Chloride	3.3	mg/L	1.0	03/12/20 22:41	
EPA 300.0 Rev 2.1 1993	Sulfate	38.6	mg/L	1.0	03/12/20 22:41	
2629733004	**BRGWC-47**					
	Field pH	5.76	Std. Units		03/26/20 14:34	
EPA 6010D	Calcium	353	mg/L	5.0	03/13/20 19:08	
EPA 6020B	Arsenic	0.00049J	mg/L	0.0050	03/12/20 21:26	
EPA 6020B	Barium	0.038	mg/L	0.010	03/12/20 21:26	
EPA 6020B	Boron	0.49	mg/L	0.10	03/12/20 21:26	
EPA 6020B	Cadmium	0.00024J	mg/L	0.0025	03/12/20 21:26	
EPA 6020B	Chromium	0.00078J	mg/L	0.010	03/12/20 21:26	
EPA 6020B	Cobalt	0.0011J	mg/L	0.0050	03/12/20 21:26	
EPA 6020B	Lead	0.00012J	mg/L	0.0050	03/12/20 21:26	
EPA 6020B	Lithium	0.042	mg/L	0.030	03/12/20 21:26	
SM 2540C	Total Dissolved Solids	2140	mg/L	10.0	03/11/20 11:14	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: PLANT BRANCH AP-BCD 2ND SA
Pace Project No.: 2629733

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
2629733004	**BRGWC-47**					
EPA 300.0 Rev 2.1 1993	Chloride	4.2	mg/L	1.0	03/12/20 22:56	
EPA 300.0 Rev 2.1 1993	Sulfate	1380	mg/L	25.0	03/13/20 13:57	
2629733007	**BRGWC-27I**					
	Field pH	5.8	Std. Units		03/26/20 14:34	
EPA 6010D	Calcium	72.3	mg/L	0.50	03/11/20 22:14	
EPA 6020B	Barium	0.015	mg/L	0.010	03/12/20 21:43	
EPA 6020B	Beryllium	0.00012J	mg/L	0.0030	03/12/20 21:43	
EPA 6020B	Boron	0.81	mg/L	0.10	03/12/20 21:43	
EPA 6020B	Cobalt	0.0080	mg/L	0.0050	03/12/20 21:43	
EPA 6020B	Lithium	0.0014J	mg/L	0.030	03/12/20 21:43	
EPA 6020B	Selenium	0.0022J	mg/L	0.010	03/12/20 21:43	
SM 2540C	Total Dissolved Solids	326	mg/L	10.0	03/11/20 11:15	
EPA 300.0 Rev 2.1 1993	Chloride	5.1	mg/L	1.0	03/12/20 23:41	
EPA 300.0 Rev 2.1 1993	Sulfate	205	mg/L	4.0	03/13/20 14:17	
2629733008	**BRGWC-50**					
	Field pH	5.2	Std. Units		03/26/20 14:34	
EPA 6010D	Calcium	245	mg/L	0.50	03/11/20 22:18	
EPA 6020B	Arsenic	0.00046J	mg/L	0.0050	03/12/20 21:49	
EPA 6020B	Barium	0.019	mg/L	0.010	03/12/20 21:49	
EPA 6020B	Beryllium	0.0052	mg/L	0.0030	03/12/20 21:49	
EPA 6020B	Boron	0.32	mg/L	0.10	03/12/20 21:49	
EPA 6020B	Cadmium	0.013	mg/L	0.0025	03/12/20 21:49	
EPA 6020B	Chromium	0.00071J	mg/L	0.010	03/12/20 21:49	
EPA 6020B	Cobalt	1.5	mg/L	0.050	03/13/20 13:39	
EPA 6020B	Lead	0.00010J	mg/L	0.0050	03/12/20 21:49	
EPA 6020B	Lithium	0.042	mg/L	0.030	03/12/20 21:49	
EPA 6020B	Selenium	0.0026J	mg/L	0.010	03/12/20 21:49	
SM 2540C	Total Dissolved Solids	2270	mg/L	10.0	03/11/20 11:15	
EPA 300.0 Rev 2.1 1993	Chloride	21.6	mg/L	1.0	03/12/20 23:55	
EPA 300.0 Rev 2.1 1993	Fluoride	0.14J	mg/L	0.30	03/12/20 23:55	
EPA 300.0 Rev 2.1 1993	Sulfate	1370	mg/L	25.0	03/13/20 14:38	
2629733009	**BRGWC-25I**					
	Field pH	6.02	Std. Units		03/26/20 14:34	
EPA 6010D	Calcium	52.0	mg/L	0.50	03/11/20 22:21	
EPA 6020B	Barium	0.026	mg/L	0.010	03/12/20 21:54	
EPA 6020B	Boron	1.2	mg/L	0.10	03/12/20 21:54	
EPA 6020B	Cobalt	0.0039J	mg/L	0.0050	03/12/20 21:54	
SM 2540C	Total Dissolved Solids	330	mg/L	10.0	03/11/20 11:15	
EPA 300.0 Rev 2.1 1993	Chloride	5.0	mg/L	1.0	03/13/20 00:10	
EPA 300.0 Rev 2.1 1993	Fluoride	0.070J	mg/L	0.30	03/13/20 00:10	
EPA 300.0 Rev 2.1 1993	Sulfate	165	mg/L	3.0	03/13/20 14:58	
2629733010	**BRGWC-52I**					
	Field pH	6.54	Std. Units		03/26/20 14:34	
EPA 6010D	Calcium	49.5	mg/L	0.50	03/11/20 22:24	
EPA 6020B	Antimony	0.00043J	mg/L	0.0030	03/12/20 22:11	B

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: PLANT BRANCH AP-BCD 2ND SA
Pace Project No.: 2629733

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
2629733010	**BRGWC-52I**					
EPA 6020B	Arsenic	0.0047J	mg/L	0.0050	03/12/20 22:11	
EPA 6020B	Barium	0.022	mg/L	0.010	03/12/20 22:11	
EPA 6020B	Boron	1.4	mg/L	0.10	03/12/20 22:11	
EPA 6020B	Lithium	0.0020J	mg/L	0.030	03/12/20 22:11	
SM 2540C	Total Dissolved Solids	351	mg/L	10.0	03/11/20 11:15	
EPA 300.0 Rev 2.1 1993	Chloride	6.1	mg/L	1.0	03/13/20 00:25	
EPA 300.0 Rev 2.1 1993	Fluoride	0.10J	mg/L	0.30	03/13/20 00:25	
EPA 300.0 Rev 2.1 1993	Sulfate	129	mg/L	3.0	03/13/20 15:20	
2629733011	**DUP-1**					
EPA 6010D	Calcium	71.4	mg/L	0.50	03/11/20 22:28	
EPA 6020B	Barium	0.016	mg/L	0.010	03/12/20 22:17	
EPA 6020B	Beryllium	0.00011J	mg/L	0.0030	03/12/20 22:17	
EPA 6020B	Boron	0.82	mg/L	0.10	03/12/20 22:17	
EPA 6020B	Chromium	0.00058J	mg/L	0.010	03/12/20 22:17	
EPA 6020B	Cobalt	0.0079	mg/L	0.0050	03/12/20 22:17	
EPA 6020B	Lithium	0.0014J	mg/L	0.030	03/12/20 22:17	
EPA 6020B	Selenium	0.0022J	mg/L	0.010	03/12/20 22:17	
SM 2540C	Total Dissolved Solids	283	mg/L	10.0	03/11/20 11:15	
EPA 300.0 Rev 2.1 1993	Chloride	5.1	mg/L	1.0	03/13/20 01:24	
EPA 300.0 Rev 2.1 1993	Sulfate	199	mg/L	4.0	03/13/20 15:42	
2629733012	**DUP-2**					
EPA 6010D	Calcium	49.2	mg/L	0.50	03/11/20 22:32	
EPA 6020B	Antimony	0.00029J	mg/L	0.0030	03/12/20 22:23	B
EPA 6020B	Arsenic	0.0044J	mg/L	0.0050	03/12/20 22:23	
EPA 6020B	Barium	0.022	mg/L	0.010	03/12/20 22:23	
EPA 6020B	Boron	1.4	mg/L	0.10	03/12/20 22:23	
EPA 6020B	Chromium	0.0014J	mg/L	0.010	03/12/20 22:23	
EPA 6020B	Lithium	0.0021J	mg/L	0.030	03/12/20 22:23	
SM 2540C	Total Dissolved Solids	126	mg/L	10.0	03/11/20 11:15	
EPA 300.0 Rev 2.1 1993	Chloride	6.1	mg/L	1.0	03/13/20 02:08	
EPA 300.0 Rev 2.1 1993	Fluoride	0.16J	mg/L	0.30	03/13/20 02:08	
EPA 300.0 Rev 2.1 1993	Sulfate	131	mg/L	3.0	03/13/20 17:14	
2629733013	**EB-2**					
EPA 6020B	Boron	0.0063J	mg/L	0.10	03/12/20 22:29	
EPA 6020B	Chromium	0.0049J	mg/L	0.010	03/12/20 22:29	
EPA 6020B	Lead	0.000053J	mg/L	0.0050	03/12/20 22:29	
SM 2540C	Total Dissolved Solids	11.0	mg/L	10.0	03/11/20 16:02	
2629733014	**BRGWC-29I**					
	Field pH	4.5	Std. Units		03/26/20 14:34	
EPA 6010D	Calcium	59.3	mg/L	0.50	03/11/20 22:45	
EPA 6020B	Arsenic	0.00044J	mg/L	0.0050	03/12/20 22:34	
EPA 6020B	Barium	0.018	mg/L	0.010	03/12/20 22:34	
EPA 6020B	Beryllium	0.00073J	mg/L	0.0030	03/12/20 22:34	
EPA 6020B	Boron	1.1	mg/L	0.10	03/12/20 22:34	
EPA 6020B	Chromium	0.020	mg/L	0.010	03/12/20 22:34	

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SUMMARY OF DETECTION

Project: PLANT BRANCH AP-BCD 2ND SA
Pace Project No.: 2629733

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
2629733014	**BRGWC-29I**					
EPA 6020B	Cobalt	0.0070	mg/L	0.0050	03/12/20 22:34	
EPA 6020B	Lead	0.00030J	mg/L	0.0050	03/12/20 22:34	
EPA 6020B	Lithium	0.0029J	mg/L	0.030	03/12/20 22:34	
EPA 6020B	Selenium	0.0018J	mg/L	0.010	03/12/20 22:34	
EPA 6020B	Thallium	0.00016J	mg/L	0.0010	03/12/20 22:34	
SM 2540C	Total Dissolved Solids	391	mg/L	10.0	03/11/20 16:03	
EPA 300.0 Rev 2.1 1993	Chloride	5.8	mg/L	1.0	03/13/20 02:38	
EPA 300.0 Rev 2.1 1993	Sulfate	238	mg/L	5.0	03/13/20 17:36	
2629733015	**BRGWC-30I**					
	Field pH	5.99	Std. Units		03/26/20 14:34	
EPA 6010D	Calcium	119	mg/L	0.50	03/11/20 22:49	
EPA 6020B	Barium	0.025	mg/L	0.010	03/16/20 14:38	
EPA 6020B	Boron	1.5	mg/L	0.10	03/16/20 14:38	
EPA 6020B	Cobalt	0.0011J	mg/L	0.0050	03/16/20 14:38	
EPA 6020B	Lithium	0.016J	mg/L	0.030	03/16/20 14:38	
SM 2540C	Total Dissolved Solids	681	mg/L	10.0	03/11/20 16:03	
EPA 300.0 Rev 2.1 1993	Chloride	4.3	mg/L	1.0	03/13/20 02:53	
EPA 300.0 Rev 2.1 1993	Fluoride	0.051J	mg/L	0.30	03/13/20 02:53	
EPA 300.0 Rev 2.1 1993	Sulfate	369	mg/L	7.0	03/13/20 17:57	
2629733016	**BRGWC-32S**					
	Field pH	5.74	Std. Units		03/26/20 14:34	
EPA 6010D	Calcium	52.1	mg/L	0.50	03/11/20 22:52	
EPA 6020B	Antimony	0.0014J	mg/L	0.0030	03/16/20 15:01	
EPA 6020B	Barium	0.026	mg/L	0.010	03/16/20 15:01	
EPA 6020B	Boron	1.5	mg/L	0.10	03/16/20 15:01	
EPA 6020B	Chromium	0.0014J	mg/L	0.010	03/16/20 15:01	
EPA 6020B	Lithium	0.0022J	mg/L	0.030	03/16/20 15:01	
EPA 6020B	Selenium	0.10	mg/L	0.010	03/16/20 15:01	
SM 2540C	Total Dissolved Solids	489	mg/L	10.0	03/11/20 16:04	
EPA 300.0 Rev 2.1 1993	Chloride	6.0	mg/L	1.0	03/13/20 03:07	
EPA 300.0 Rev 2.1 1993	Sulfate	269	mg/L	5.0	03/13/20 18:18	
2629733017	**BRGWC-45**					
	Field pH	5.95	Std. Units		03/26/20 14:34	
EPA 6010D	Calcium	37.9	mg/L	0.50	03/18/20 18:40	
EPA 6020B	Antimony	0.0016J	mg/L	0.0030	03/16/20 15:06	
EPA 6020B	Barium	0.078	mg/L	0.010	03/16/20 15:06	
EPA 6020B	Boron	0.044J	mg/L	0.10	03/16/20 15:06	
EPA 6020B	Chromium	0.00053J	mg/L	0.010	03/16/20 15:06	
EPA 6020B	Cobalt	0.0091	mg/L	0.0050	03/16/20 15:06	
EPA 6020B	Lead	0.00026J	mg/L	0.0050	03/16/20 15:06	
EPA 6020B	Lithium	0.0030J	mg/L	0.030	03/16/20 15:06	
SM 2540C	Total Dissolved Solids	297	mg/L	10.0	03/12/20 12:57	
EPA 300.0 Rev 2.1 1993	Chloride	37.1	mg/L	1.0	03/13/20 03:22	
EPA 300.0 Rev 2.1 1993	Sulfate	106	mg/L	2.0	03/13/20 18:39	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: PLANT BRANCH AP-BCD 2ND SA
Pace Project No.: 2629733

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
2629733018	**EB-3**					
EPA 6020B	Boron	0.0051J	mg/L	0.10	03/16/20 15:12	

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ANALYTICAL RESULTS

Project: PLANT BRANCH AP-BCD 2ND SA
Pace Project No.: 2629733

Sample: BRGWA-12S **Lab ID: 2629733001** Collected: 03/03/20 15:22 Received: 03/04/20 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	**5.94**	Std. Units			1		03/26/20 14:34		
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Calcium	**6.8**	mg/L	0.50	0.14	1	03/10/20 18:00	03/11/20 18:31	7440-70-2	
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00027	1	03/05/20 22:25	03/10/20 20:27	7440-36-0	
Arsenic	**0.0015J**	mg/L	0.0050	0.00035	1	03/05/20 22:25	03/10/20 20:27	7440-38-2	
Barium	**0.060**	mg/L	0.010	0.00049	1	03/05/20 22:25	03/10/20 20:27	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/05/20 22:25	03/10/20 20:27	7440-41-7	
Boron	**0.0065J**	mg/L	0.10	0.0049	1	03/05/20 22:25	03/10/20 20:27	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/05/20 22:25	03/10/20 20:27	7440-43-9	
Chromium	**0.0028J**	mg/L	0.010	0.00039	1	03/05/20 22:25	03/10/20 20:27	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	03/05/20 22:25	03/10/20 20:27	7440-48-4	
Lead	ND	mg/L	0.0050	0.000046	1	03/05/20 22:25	03/10/20 20:27	7439-92-1	
Lithium	ND	mg/L	0.030	0.00078	1	03/05/20 22:25	03/10/20 20:27	7439-93-2	
Selenium	ND	mg/L	0.010	0.0013	1	03/05/20 22:25	03/10/20 20:27	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000052	1	03/05/20 22:25	03/10/20 20:27	7440-28-0	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**72.0**	mg/L	10.0	10.0	1		03/06/20 12:46		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993								
Chloride	**3.2**	mg/L	1.0	0.60	1		03/07/20 16:02	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		03/07/20 16:02	16984-48-8	M1
Sulfate	**0.51J**	mg/L	1.0	0.50	1		03/07/20 16:02	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT BRANCH AP-BCD 2ND SA
Pace Project No.: 2629733

Sample: BRGWA-12I **Lab ID: 2629733002** Collected: 03/03/20 17:15 Received: 03/04/20 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	**6.33**	Std. Units			1		03/26/20 14:34		
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Calcium	**19.4**	mg/L	0.50	0.14	1	03/10/20 18:00	03/11/20 18:34	7440-70-2	
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	**0.0063**	mg/L	0.0030	0.00027	1	03/05/20 22:25	03/10/20 20:50	7440-36-0	
Arsenic	**0.0023J**	mg/L	0.0050	0.00035	1	03/05/20 22:25	03/10/20 20:50	7440-38-2	
Barium	**0.076**	mg/L	0.010	0.00049	1	03/05/20 22:25	03/10/20 20:50	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/05/20 22:25	03/10/20 20:50	7440-41-7	
Boron	**0.010J**	mg/L	0.10	0.0049	1	03/05/20 22:25	03/10/20 20:50	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/05/20 22:25	03/10/20 20:50	7440-43-9	
Chromium	**0.0026J**	mg/L	0.010	0.00039	1	03/05/20 22:25	03/10/20 20:50	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	03/05/20 22:25	03/10/20 20:50	7440-48-4	
Lead	ND	mg/L	0.0050	0.000046	1	03/05/20 22:25	03/10/20 20:50	7439-92-1	
Lithium	**0.0033J**	mg/L	0.030	0.00078	1	03/05/20 22:25	03/10/20 20:50	7439-93-2	
Selenium	ND	mg/L	0.010	0.0013	1	03/05/20 22:25	03/10/20 20:50	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000052	1	03/05/20 22:25	03/10/20 20:50	7440-28-0	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**115**	mg/L	10.0	10.0	1		03/06/20 12:46		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993								
Chloride	**2.6**	mg/L	1.0	0.60	1		03/07/20 16:46	16887-00-6	
Fluoride	**0.056J**	mg/L	0.30	0.050	1		03/07/20 16:46	16984-48-8	
Sulfate	**1.8**	mg/L	1.0	0.50	1		03/07/20 16:46	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT BRANCH AP-BCD 2ND SA
Pace Project No.: 2629733

Sample: BRGWA-23S **Lab ID: 2629733003** Collected: 03/04/20 11:20 Received: 03/05/20 15:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	**5.7**	Std. Units			1		03/26/20 14:34		
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Calcium	**11.5**	mg/L	0.50	0.14	1	03/10/20 18:30	03/11/20 22:00	7440-70-2	
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00027	1	03/11/20 19:35	03/12/20 21:20	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	03/11/20 19:35	03/12/20 21:20	7440-38-2	
Barium	**0.087**	mg/L	0.010	0.00049	1	03/11/20 19:35	03/12/20 21:20	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/11/20 19:35	03/12/20 21:20	7440-41-7	
Boron	**0.044J**	mg/L	0.10	0.0049	1	03/11/20 19:35	03/12/20 21:20	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/11/20 19:35	03/12/20 21:20	7440-43-9	
Chromium	**0.0019J**	mg/L	0.010	0.00039	1	03/11/20 19:35	03/12/20 21:20	7440-47-3	
Cobalt	**0.0012J**	mg/L	0.0050	0.00030	1	03/11/20 19:35	03/12/20 21:20	7440-48-4	
Lead	ND	mg/L	0.0050	0.000046	1	03/11/20 19:35	03/12/20 21:20	7439-92-1	
Lithium	**0.0074J**	mg/L	0.030	0.00078	1	03/11/20 19:35	03/12/20 21:20	7439-93-2	
Selenium	**0.0019J**	mg/L	0.010	0.0013	1	03/11/20 19:35	03/12/20 21:20	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000052	1	03/11/20 19:35	03/12/20 21:20	7440-28-0	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**118**	mg/L	10.0	10.0	1		03/11/20 11:14		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993								
Chloride	**3.3**	mg/L	1.0	0.60	1		03/12/20 22:41	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		03/12/20 22:41	16984-48-8	
Sulfate	**38.6**	mg/L	1.0	0.50	1		03/12/20 22:41	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT BRANCH AP-BCD 2ND SA
Pace Project No.: 2629733

Sample: BRGWC-47 **Lab ID: 2629733004** Collected: 03/04/20 11:28 Received: 03/05/20 15:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	**5.76**	Std. Units			1		03/26/20 14:34		
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Calcium	**353**	mg/L	5.0	1.4	10	03/10/20 18:30	03/13/20 19:08	7440-70-2	
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00027	1	03/11/20 19:35	03/12/20 21:26	7440-36-0	
Arsenic	**0.00049J**	mg/L	0.0050	0.00035	1	03/11/20 19:35	03/12/20 21:26	7440-38-2	
Barium	**0.038**	mg/L	0.010	0.00049	1	03/11/20 19:35	03/12/20 21:26	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/11/20 19:35	03/12/20 21:26	7440-41-7	
Boron	**0.49**	mg/L	0.10	0.0049	1	03/11/20 19:35	03/12/20 21:26	7440-42-8	
Cadmium	**0.00024J**	mg/L	0.0025	0.00011	1	03/11/20 19:35	03/12/20 21:26	7440-43-9	
Chromium	**0.00078J**	mg/L	0.010	0.00039	1	03/11/20 19:35	03/12/20 21:26	7440-47-3	
Cobalt	**0.0011J**	mg/L	0.0050	0.00030	1	03/11/20 19:35	03/12/20 21:26	7440-48-4	
Lead	**0.00012J**	mg/L	0.0050	0.000046	1	03/11/20 19:35	03/12/20 21:26	7439-92-1	
Lithium	**0.042**	mg/L	0.030	0.00078	1	03/11/20 19:35	03/12/20 21:26	7439-93-2	
Selenium	ND	mg/L	0.010	0.0013	1	03/11/20 19:35	03/12/20 21:26	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000052	1	03/11/20 19:35	03/12/20 21:26	7440-28-0	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**2140**	mg/L	10.0	10.0	1		03/11/20 11:14		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993								
Chloride	**4.2**	mg/L	1.0	0.60	1		03/12/20 22:56	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		03/12/20 22:56	16984-48-8	
Sulfate	**1380**	mg/L	25.0	12.5	25		03/13/20 13:57	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT BRANCH AP-BCD 2ND SA
Pace Project No.: 2629733

Sample: FB-1 **Lab ID: 2629733005** Collected: 03/04/20 10:55 Received: 03/05/20 15:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Calcium	ND	mg/L	0.50	0.14	1	03/10/20 18:30	03/11/20 22:07	7440-70-2	
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00027	1	03/11/20 19:35	03/12/20 21:31	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	03/11/20 19:35	03/12/20 21:31	7440-38-2	
Barium	ND	mg/L	0.010	0.00049	1	03/11/20 19:35	03/12/20 21:31	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/11/20 19:35	03/12/20 21:31	7440-41-7	
Boron	ND	mg/L	0.10	0.0049	1	03/11/20 19:35	03/12/20 21:31	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/11/20 19:35	03/12/20 21:31	7440-43-9	
Chromium	ND	mg/L	0.010	0.00039	1	03/11/20 19:35	03/12/20 21:31	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	03/11/20 19:35	03/12/20 21:31	7440-48-4	
Lead	ND	mg/L	0.0050	0.000046	1	03/11/20 19:35	03/12/20 21:31	7439-92-1	
Lithium	ND	mg/L	0.030	0.00078	1	03/11/20 19:35	03/12/20 21:31	7439-93-2	
Selenium	ND	mg/L	0.010	0.0013	1	03/11/20 19:35	03/12/20 21:31	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000052	1	03/11/20 19:35	03/12/20 21:31	7440-28-0	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		03/11/20 11:14		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993								
Chloride	ND	mg/L	1.0	0.60	1		03/12/20 23:11	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		03/12/20 23:11	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		03/12/20 23:11	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT BRANCH AP-BCD 2ND SA
Pace Project No.: 2629733

Sample: EB-1 **Lab ID: 2629733006** Collected: 03/04/20 11:11 Received: 03/05/20 15:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Calcium	ND	mg/L	0.50	0.14	1	03/10/20 18:30	03/11/20 22:10	7440-70-2	
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00027	1	03/11/20 19:35	03/12/20 21:37	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	03/11/20 19:35	03/12/20 21:37	7440-38-2	
Barium	ND	mg/L	0.010	0.00049	1	03/11/20 19:35	03/12/20 21:37	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/11/20 19:35	03/12/20 21:37	7440-41-7	
Boron	ND	mg/L	0.10	0.0049	1	03/11/20 19:35	03/12/20 21:37	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/11/20 19:35	03/12/20 21:37	7440-43-9	
Chromium	ND	mg/L	0.010	0.00039	1	03/11/20 19:35	03/12/20 21:37	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	03/11/20 19:35	03/12/20 21:37	7440-48-4	
Lead	ND	mg/L	0.0050	0.000046	1	03/11/20 19:35	03/12/20 21:37	7439-92-1	
Lithium	ND	mg/L	0.030	0.00078	1	03/11/20 19:35	03/12/20 21:37	7439-93-2	
Selenium	ND	mg/L	0.010	0.0013	1	03/11/20 19:35	03/12/20 21:37	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000052	1	03/11/20 19:35	03/12/20 21:37	7440-28-0	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		03/11/20 11:15		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993								
Chloride	ND	mg/L	1.0	0.60	1		03/12/20 23:26	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		03/12/20 23:26	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		03/12/20 23:26	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT BRANCH AP-BCD 2ND SA
Pace Project No.: 2629733

Sample: BRGWC-27I **Lab ID: 2629733007** Collected: 03/04/20 12:46 Received: 03/05/20 15:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	**5.8**	Std. Units			1		03/26/20 14:34		
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Calcium	**72.3**	mg/L	0.50	0.14	1	03/10/20 18:30	03/11/20 22:14	7440-70-2	
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00027	1	03/11/20 19:35	03/12/20 21:43	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	03/11/20 19:35	03/12/20 21:43	7440-38-2	
Barium	**0.015**	mg/L	0.010	0.00049	1	03/11/20 19:35	03/12/20 21:43	7440-39-3	
Beryllium	**0.00012J**	mg/L	0.0030	0.000074	1	03/11/20 19:35	03/12/20 21:43	7440-41-7	
Boron	**0.81**	mg/L	0.10	0.0049	1	03/11/20 19:35	03/12/20 21:43	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/11/20 19:35	03/12/20 21:43	7440-43-9	
Chromium	ND	mg/L	0.010	0.00039	1	03/11/20 19:35	03/12/20 21:43	7440-47-3	
Cobalt	**0.0080**	mg/L	0.0050	0.00030	1	03/11/20 19:35	03/12/20 21:43	7440-48-4	
Lead	ND	mg/L	0.0050	0.000046	1	03/11/20 19:35	03/12/20 21:43	7439-92-1	
Lithium	**0.0014J**	mg/L	0.030	0.00078	1	03/11/20 19:35	03/12/20 21:43	7439-93-2	
Selenium	**0.0022J**	mg/L	0.010	0.0013	1	03/11/20 19:35	03/12/20 21:43	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000052	1	03/11/20 19:35	03/12/20 21:43	7440-28-0	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**326**	mg/L	10.0	10.0	1		03/11/20 11:15		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993								
Chloride	**5.1**	mg/L	1.0	0.60	1		03/12/20 23:41	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		03/12/20 23:41	16984-48-8	
Sulfate	**205**	mg/L	4.0	2.0	4		03/13/20 14:17	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT BRANCH AP-BCD 2ND SA
Pace Project No.: 2629733

Sample: BRGWC-50 **Lab ID: 2629733008** Collected: 03/04/20 13:33 Received: 03/05/20 15:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	**5.2**	Std. Units			1		03/26/20 14:34		
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Calcium	**245**	mg/L	0.50	0.14	1	03/10/20 18:30	03/11/20 22:18	7440-70-2	
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00027	1	03/11/20 19:35	03/12/20 21:49	7440-36-0	
Arsenic	**0.00046J**	mg/L	0.0050	0.00035	1	03/11/20 19:35	03/12/20 21:49	7440-38-2	
Barium	**0.019**	mg/L	0.010	0.00049	1	03/11/20 19:35	03/12/20 21:49	7440-39-3	
Beryllium	**0.0052**	mg/L	0.0030	0.000074	1	03/11/20 19:35	03/12/20 21:49	7440-41-7	
Boron	**0.32**	mg/L	0.10	0.0049	1	03/11/20 19:35	03/12/20 21:49	7440-42-8	
Cadmium	**0.013**	mg/L	0.0025	0.00011	1	03/11/20 19:35	03/12/20 21:49	7440-43-9	
Chromium	**0.00071J**	mg/L	0.010	0.00039	1	03/11/20 19:35	03/12/20 21:49	7440-47-3	
Cobalt	**1.5**	mg/L	0.050	0.0030	10	03/11/20 19:35	03/13/20 13:39	7440-48-4	
Lead	**0.00010J**	mg/L	0.0050	0.000046	1	03/11/20 19:35	03/12/20 21:49	7439-92-1	
Lithium	**0.042**	mg/L	0.030	0.00078	1	03/11/20 19:35	03/12/20 21:49	7439-93-2	
Selenium	**0.0026J**	mg/L	0.010	0.0013	1	03/11/20 19:35	03/12/20 21:49	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000052	1	03/11/20 19:35	03/12/20 21:49	7440-28-0	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**2270**	mg/L	10.0	10.0	1		03/11/20 11:15		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993								
Chloride	**21.6**	mg/L	1.0	0.60	1		03/12/20 23:55	16887-00-6	
Fluoride	**0.14J**	mg/L	0.30	0.050	1		03/12/20 23:55	16984-48-8	
Sulfate	**1370**	mg/L	25.0	12.5	25		03/13/20 14:38	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT BRANCH AP-BCD 2ND SA
Pace Project No.: 2629733

Sample: BRGWC-25I **Lab ID: 2629733009** Collected: 03/04/20 14:25 Received: 03/05/20 15:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	**6.02**	Std. Units			1		03/26/20 14:34		
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Calcium	**52.0**	mg/L	0.50	0.14	1	03/10/20 18:30	03/11/20 22:21	7440-70-2	
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00027	1	03/11/20 19:35	03/12/20 21:54	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	03/11/20 19:35	03/12/20 21:54	7440-38-2	
Barium	**0.026**	mg/L	0.010	0.00049	1	03/11/20 19:35	03/12/20 21:54	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/11/20 19:35	03/12/20 21:54	7440-41-7	
Boron	**1.2**	mg/L	0.10	0.0049	1	03/11/20 19:35	03/12/20 21:54	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/11/20 19:35	03/12/20 21:54	7440-43-9	
Chromium	ND	mg/L	0.010	0.00039	1	03/11/20 19:35	03/12/20 21:54	7440-47-3	
Cobalt	**0.0039J**	mg/L	0.0050	0.00030	1	03/11/20 19:35	03/12/20 21:54	7440-48-4	
Lead	ND	mg/L	0.0050	0.000046	1	03/11/20 19:35	03/12/20 21:54	7439-92-1	
Lithium	ND	mg/L	0.030	0.00078	1	03/11/20 19:35	03/12/20 21:54	7439-93-2	
Selenium	ND	mg/L	0.010	0.0013	1	03/11/20 19:35	03/12/20 21:54	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000052	1	03/11/20 19:35	03/12/20 21:54	7440-28-0	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**330**	mg/L	10.0	10.0	1		03/11/20 11:15		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993								
Chloride	**5.0**	mg/L	1.0	0.60	1		03/13/20 00:10	16887-00-6	
Fluoride	**0.070J**	mg/L	0.30	0.050	1		03/13/20 00:10	16984-48-8	
Sulfate	**165**	mg/L	3.0	1.5	3		03/13/20 14:58	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT BRANCH AP-BCD 2ND SA
Pace Project No.: 2629733

Sample: BRGWC-52I **Lab ID: 2629733010** Collected: 03/04/20 15:10 Received: 03/05/20 15:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	**6.54**	Std. Units			1		03/26/20 14:34		
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Calcium	**49.5**	mg/L	0.50	0.14	1	03/10/20 18:30	03/11/20 22:24	7440-70-2	
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	**0.00043J**	mg/L	0.0030	0.00027	1	03/11/20 19:35	03/12/20 22:11	7440-36-0	B
Arsenic	**0.0047J**	mg/L	0.0050	0.00035	1	03/11/20 19:35	03/12/20 22:11	7440-38-2	
Barium	**0.022**	mg/L	0.010	0.00049	1	03/11/20 19:35	03/12/20 22:11	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/11/20 19:35	03/12/20 22:11	7440-41-7	
Boron	**1.4**	mg/L	0.10	0.0049	1	03/11/20 19:35	03/12/20 22:11	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/11/20 19:35	03/12/20 22:11	7440-43-9	
Chromium	ND	mg/L	0.010	0.00039	1	03/11/20 19:35	03/12/20 22:11	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	03/11/20 19:35	03/12/20 22:11	7440-48-4	
Lead	ND	mg/L	0.0050	0.000046	1	03/11/20 19:35	03/12/20 22:11	7439-92-1	
Lithium	**0.0020J**	mg/L	0.030	0.00078	1	03/11/20 19:35	03/12/20 22:11	7439-93-2	
Selenium	ND	mg/L	0.010	0.0013	1	03/11/20 19:35	03/12/20 22:11	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000052	1	03/11/20 19:35	03/12/20 22:11	7440-28-0	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**351**	mg/L	10.0	10.0	1		03/11/20 11:15		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993								
Chloride	**6.1**	mg/L	1.0	0.60	1		03/13/20 00:25	16887-00-6	
Fluoride	**0.10J**	mg/L	0.30	0.050	1		03/13/20 00:25	16984-48-8	
Sulfate	**129**	mg/L	3.0	1.5	3		03/13/20 15:20	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT BRANCH AP-BCD 2ND SA
Pace Project No.: 2629733

Sample: DUP-1 **Lab ID: 2629733011** Collected: 03/04/20 00:00 Received: 03/05/20 15:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Calcium	**71.4**	mg/L	0.50	0.14	1	03/10/20 18:30	03/11/20 22:28	7440-70-2	
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00027	1	03/11/20 19:35	03/12/20 22:17	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	03/11/20 19:35	03/12/20 22:17	7440-38-2	
Barium	**0.016**	mg/L	0.010	0.00049	1	03/11/20 19:35	03/12/20 22:17	7440-39-3	
Beryllium	**0.00011J**	mg/L	0.0030	0.000074	1	03/11/20 19:35	03/12/20 22:17	7440-41-7	
Boron	**0.82**	mg/L	0.10	0.0049	1	03/11/20 19:35	03/12/20 22:17	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/11/20 19:35	03/12/20 22:17	7440-43-9	
Chromium	**0.00058J**	mg/L	0.010	0.00039	1	03/11/20 19:35	03/12/20 22:17	7440-47-3	
Cobalt	**0.0079**	mg/L	0.0050	0.00030	1	03/11/20 19:35	03/12/20 22:17	7440-48-4	
Lead	ND	mg/L	0.0050	0.000046	1	03/11/20 19:35	03/12/20 22:17	7439-92-1	
Lithium	**0.0014J**	mg/L	0.030	0.00078	1	03/11/20 19:35	03/12/20 22:17	7439-93-2	
Selenium	**0.0022J**	mg/L	0.010	0.0013	1	03/11/20 19:35	03/12/20 22:17	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000052	1	03/11/20 19:35	03/12/20 22:17	7440-28-0	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**283**	mg/L	10.0	10.0	1		03/11/20 11:15		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993								
Chloride	**5.1**	mg/L	1.0	0.60	1		03/13/20 01:24	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		03/13/20 01:24	16984-48-8	M1
Sulfate	**199**	mg/L	4.0	2.0	4		03/13/20 15:42	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT BRANCH AP-BCD 2ND SA
Pace Project No.: 2629733

Sample: DUP-2 **Lab ID: 2629733012** Collected: 03/04/20 00:00 Received: 03/05/20 15:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Calcium	**49.2**	mg/L	0.50	0.14	1	03/10/20 18:30	03/11/20 22:32	7440-70-2	
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	**0.00029J**	mg/L	0.0030	0.00027	1	03/11/20 19:35	03/12/20 22:23	7440-36-0	B
Arsenic	**0.0044J**	mg/L	0.0050	0.00035	1	03/11/20 19:35	03/12/20 22:23	7440-38-2	
Barium	**0.022**	mg/L	0.010	0.00049	1	03/11/20 19:35	03/12/20 22:23	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/11/20 19:35	03/12/20 22:23	7440-41-7	
Boron	**1.4**	mg/L	0.10	0.0049	1	03/11/20 19:35	03/12/20 22:23	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/11/20 19:35	03/12/20 22:23	7440-43-9	
Chromium	**0.0014J**	mg/L	0.010	0.00039	1	03/11/20 19:35	03/12/20 22:23	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	03/11/20 19:35	03/12/20 22:23	7440-48-4	
Lead	ND	mg/L	0.0050	0.000046	1	03/11/20 19:35	03/12/20 22:23	7439-92-1	
Lithium	**0.0021J**	mg/L	0.030	0.00078	1	03/11/20 19:35	03/12/20 22:23	7439-93-2	
Selenium	ND	mg/L	0.010	0.0013	1	03/11/20 19:35	03/12/20 22:23	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000052	1	03/11/20 19:35	03/12/20 22:23	7440-28-0	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**126**	mg/L	10.0	10.0	1		03/11/20 11:15		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993								
Chloride	**6.1**	mg/L	1.0	0.60	1		03/13/20 02:08	16887-00-6	
Fluoride	**0.16J**	mg/L	0.30	0.050	1		03/13/20 02:08	16984-48-8	
Sulfate	**131**	mg/L	3.0	1.5	3		03/13/20 17:14	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT BRANCH AP-BCD 2ND SA
Pace Project No.: 2629733

Sample: EB-2 **Lab ID: 2629733013** Collected: 03/04/20 16:03 Received: 03/05/20 15:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Calcium	ND	mg/L	0.50	0.14	1	03/10/20 18:30	03/11/20 22:42	7440-70-2	
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00027	1	03/11/20 19:35	03/12/20 22:29	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	03/11/20 19:35	03/12/20 22:29	7440-38-2	
Barium	ND	mg/L	0.010	0.00049	1	03/11/20 19:35	03/12/20 22:29	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/11/20 19:35	03/12/20 22:29	7440-41-7	
Boron	**0.0063J**	mg/L	0.10	0.0049	1	03/11/20 19:35	03/12/20 22:29	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/11/20 19:35	03/12/20 22:29	7440-43-9	
Chromium	**0.0049J**	mg/L	0.010	0.00039	1	03/11/20 19:35	03/12/20 22:29	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	03/11/20 19:35	03/12/20 22:29	7440-48-4	
Lead	**0.000053J**	mg/L	0.0050	0.000046	1	03/11/20 19:35	03/12/20 22:29	7439-92-1	
Lithium	ND	mg/L	0.030	0.00078	1	03/11/20 19:35	03/12/20 22:29	7439-93-2	
Selenium	ND	mg/L	0.010	0.0013	1	03/11/20 19:35	03/12/20 22:29	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000052	1	03/11/20 19:35	03/12/20 22:29	7440-28-0	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**11.0**	mg/L	10.0	10.0	1		03/11/20 16:02		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993								
Chloride	ND	mg/L	1.0	0.60	1		03/13/20 02:23	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		03/13/20 02:23	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		03/13/20 02:23	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT BRANCH AP-BCD 2ND SA
Pace Project No.: 2629733

Sample: BRGWC-29I **Lab ID: 2629733014** Collected: 03/04/20 16:05 Received: 03/05/20 15:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	**4.5**	Std. Units			1		03/26/20 14:34		
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Calcium	**59.3**	mg/L	0.50	0.14	1	03/10/20 18:30	03/11/20 22:45	7440-70-2	
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00027	1	03/11/20 19:35	03/12/20 22:34	7440-36-0	
Arsenic	**0.00044J**	mg/L	0.0050	0.00035	1	03/11/20 19:35	03/12/20 22:34	7440-38-2	
Barium	**0.018**	mg/L	0.010	0.00049	1	03/11/20 19:35	03/12/20 22:34	7440-39-3	
Beryllium	**0.00073J**	mg/L	0.0030	0.000074	1	03/11/20 19:35	03/12/20 22:34	7440-41-7	
Boron	**1.1**	mg/L	0.10	0.0049	1	03/11/20 19:35	03/12/20 22:34	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/11/20 19:35	03/12/20 22:34	7440-43-9	
Chromium	**0.020**	mg/L	0.010	0.00039	1	03/11/20 19:35	03/12/20 22:34	7440-47-3	
Cobalt	**0.0070**	mg/L	0.0050	0.00030	1	03/11/20 19:35	03/12/20 22:34	7440-48-4	
Lead	**0.00030J**	mg/L	0.0050	0.000046	1	03/11/20 19:35	03/12/20 22:34	7439-92-1	
Lithium	**0.0029J**	mg/L	0.030	0.00078	1	03/11/20 19:35	03/12/20 22:34	7439-93-2	
Selenium	**0.0018J**	mg/L	0.010	0.0013	1	03/11/20 19:35	03/12/20 22:34	7782-49-2	
Thallium	**0.00016J**	mg/L	0.0010	0.000052	1	03/11/20 19:35	03/12/20 22:34	7440-28-0	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**391**	mg/L	10.0	10.0	1		03/11/20 16:03		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993								
Chloride	**5.8**	mg/L	1.0	0.60	1		03/13/20 02:38	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		03/13/20 02:38	16984-48-8	
Sulfate	**238**	mg/L	5.0	2.5	5		03/13/20 17:36	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT BRANCH AP-BCD 2ND SA
Pace Project No.: 2629733

Sample: BRGWC-30I **Lab ID: 2629733015** Collected: 03/05/20 09:10 Received: 03/06/20 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	**5.99**	Std. Units			1		03/26/20 14:34		
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Calcium	**119**	mg/L	0.50	0.14	1	03/10/20 18:30	03/11/20 22:49	7440-70-2	
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00027	1	03/11/20 19:30	03/16/20 14:38	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	03/11/20 19:30	03/16/20 14:38	7440-38-2	
Barium	**0.025**	mg/L	0.010	0.00049	1	03/11/20 19:30	03/16/20 14:38	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/11/20 19:30	03/16/20 14:38	7440-41-7	
Boron	**1.5**	mg/L	0.10	0.0049	1	03/11/20 19:30	03/16/20 14:38	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/11/20 19:30	03/16/20 14:38	7440-43-9	
Chromium	ND	mg/L	0.010	0.00039	1	03/11/20 19:30	03/16/20 14:38	7440-47-3	
Cobalt	**0.0011J**	mg/L	0.0050	0.00030	1	03/11/20 19:30	03/16/20 14:38	7440-48-4	
Lead	ND	mg/L	0.0050	0.000046	1	03/11/20 19:30	03/16/20 14:38	7439-92-1	
Lithium	**0.016J**	mg/L	0.030	0.00078	1	03/11/20 19:30	03/16/20 14:38	7439-93-2	
Selenium	ND	mg/L	0.010	0.0013	1	03/11/20 19:30	03/16/20 14:38	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000052	1	03/11/20 19:30	03/16/20 14:38	7440-28-0	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**681**	mg/L	10.0	10.0	1		03/11/20 16:03		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993								
Chloride	**4.3**	mg/L	1.0	0.60	1		03/13/20 02:53	16887-00-6	
Fluoride	**0.051J**	mg/L	0.30	0.050	1		03/13/20 02:53	16984-48-8	
Sulfate	**369**	mg/L	7.0	3.5	7		03/13/20 17:57	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT BRANCH AP-BCD 2ND SA
Pace Project No.: 2629733

Sample: BRGWC-32S **Lab ID: 2629733016** Collected: 03/05/20 10:25 Received: 03/06/20 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	**5.74**	Std. Units			1		03/26/20 14:34		
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Calcium	**52.1**	mg/L	0.50	0.14	1	03/10/20 18:30	03/11/20 22:52	7440-70-2	
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	**0.0014J**	mg/L	0.0030	0.00027	1	03/11/20 19:30	03/16/20 15:01	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	03/11/20 19:30	03/16/20 15:01	7440-38-2	
Barium	**0.026**	mg/L	0.010	0.00049	1	03/11/20 19:30	03/16/20 15:01	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/11/20 19:30	03/16/20 15:01	7440-41-7	
Boron	**1.5**	mg/L	0.10	0.0049	1	03/11/20 19:30	03/16/20 15:01	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/11/20 19:30	03/16/20 15:01	7440-43-9	
Chromium	**0.0014J**	mg/L	0.010	0.00039	1	03/11/20 19:30	03/16/20 15:01	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	03/11/20 19:30	03/16/20 15:01	7440-48-4	
Lead	ND	mg/L	0.0050	0.000046	1	03/11/20 19:30	03/16/20 15:01	7439-92-1	
Lithium	**0.0022J**	mg/L	0.030	0.00078	1	03/11/20 19:30	03/16/20 15:01	7439-93-2	
Selenium	**0.10**	mg/L	0.010	0.0013	1	03/11/20 19:30	03/16/20 15:01	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000052	1	03/11/20 19:30	03/16/20 15:01	7440-28-0	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**489**	mg/L	10.0	10.0	1		03/11/20 16:04		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993								
Chloride	**6.0**	mg/L	1.0	0.60	1		03/13/20 03:07	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		03/13/20 03:07	16984-48-8	
Sulfate	**269**	mg/L	5.0	2.5	5		03/13/20 18:18	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT BRANCH AP-BCD 2ND SA
Pace Project No.: 2629733

Sample: BRGWC-45 **Lab ID: 2629733017** Collected: 03/05/20 16:05 Received: 03/06/20 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	**5.95**	Std. Units			1		03/26/20 14:34		
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Calcium	**37.9**	mg/L	0.50	0.14	1	03/11/20 18:00	03/18/20 18:40	7440-70-2	
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	**0.0016J**	mg/L	0.0030	0.00027	1	03/11/20 19:30	03/16/20 15:06	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	03/11/20 19:30	03/16/20 15:06	7440-38-2	
Barium	**0.078**	mg/L	0.010	0.00049	1	03/11/20 19:30	03/16/20 15:06	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/11/20 19:30	03/16/20 15:06	7440-41-7	
Boron	**0.044J**	mg/L	0.10	0.0049	1	03/11/20 19:30	03/16/20 15:06	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/11/20 19:30	03/16/20 15:06	7440-43-9	
Chromium	**0.00053J**	mg/L	0.010	0.00039	1	03/11/20 19:30	03/16/20 15:06	7440-47-3	
Cobalt	**0.0091**	mg/L	0.0050	0.00030	1	03/11/20 19:30	03/16/20 15:06	7440-48-4	
Lead	**0.00026J**	mg/L	0.0050	0.000046	1	03/11/20 19:30	03/16/20 15:06	7439-92-1	
Lithium	**0.0030J**	mg/L	0.030	0.00078	1	03/11/20 19:30	03/16/20 15:06	7439-93-2	
Selenium	ND	mg/L	0.010	0.0013	1	03/11/20 19:30	03/16/20 15:06	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000052	1	03/11/20 19:30	03/16/20 15:06	7440-28-0	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**297**	mg/L	10.0	10.0	1		03/12/20 12:57		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993								
Chloride	**37.1**	mg/L	1.0	0.60	1		03/13/20 03:22	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		03/13/20 03:22	16984-48-8	
Sulfate	**106**	mg/L	2.0	1.0	2		03/13/20 18:39	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT BRANCH AP-BCD 2ND SA
Pace Project No.: 2629733

Sample: EB-3 **Lab ID: 2629733018** Collected: 03/05/20 15:30 Received: 03/06/20 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Calcium	ND	mg/L	0.50	0.14	1	03/11/20 18:00	03/18/20 19:01	7440-70-2	
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00027	1	03/11/20 19:30	03/16/20 15:12	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	03/11/20 19:30	03/16/20 15:12	7440-38-2	
Barium	ND	mg/L	0.010	0.00049	1	03/11/20 19:30	03/16/20 15:12	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/11/20 19:30	03/16/20 15:12	7440-41-7	
Boron	**0.0051J**	mg/L	0.10	0.0049	1	03/11/20 19:30	03/16/20 15:12	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/11/20 19:30	03/16/20 15:12	7440-43-9	
Chromium	ND	mg/L	0.010	0.00039	1	03/11/20 19:30	03/16/20 15:12	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	03/11/20 19:30	03/16/20 15:12	7440-48-4	
Lead	ND	mg/L	0.0050	0.000046	1	03/11/20 19:30	03/16/20 15:12	7439-92-1	
Lithium	ND	mg/L	0.030	0.00078	1	03/11/20 19:30	03/16/20 15:12	7439-93-2	
Selenium	ND	mg/L	0.010	0.0013	1	03/11/20 19:30	03/16/20 15:12	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000052	1	03/11/20 19:30	03/16/20 15:12	7440-28-0	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		03/12/20 12:58		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993								
Chloride	ND	mg/L	1.0	0.60	1		03/13/20 03:37	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		03/13/20 03:37	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		03/13/20 03:37	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT BRANCH AP-BCD 2ND SA
Pace Project No.: 2629733

Sample: FB-3 **Lab ID: 2629733019** Collected: 03/05/20 13:00 Received: 03/06/20 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Calcium	ND	mg/L	0.50	0.14	1	03/11/20 18:00	03/18/20 19:04	7440-70-2	
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00027	1	03/11/20 19:30	03/16/20 15:18	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	03/11/20 19:30	03/16/20 15:18	7440-38-2	
Barium	ND	mg/L	0.010	0.00049	1	03/11/20 19:30	03/16/20 15:18	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/11/20 19:30	03/16/20 15:18	7440-41-7	
Boron	ND	mg/L	0.10	0.0049	1	03/11/20 19:30	03/16/20 15:18	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/11/20 19:30	03/16/20 15:18	7440-43-9	
Chromium	ND	mg/L	0.010	0.00039	1	03/11/20 19:30	03/16/20 15:18	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	03/11/20 19:30	03/16/20 15:18	7440-48-4	
Lead	ND	mg/L	0.0050	0.000046	1	03/11/20 19:30	03/16/20 15:18	7439-92-1	
Lithium	ND	mg/L	0.030	0.00078	1	03/11/20 19:30	03/16/20 15:18	7439-93-2	
Selenium	ND	mg/L	0.010	0.0013	1	03/11/20 19:30	03/16/20 15:18	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000052	1	03/11/20 19:30	03/16/20 15:18	7440-28-0	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		03/12/20 12:58		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993								
Chloride	ND	mg/L	1.0	0.60	1		03/13/20 04:21	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		03/13/20 04:21	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		03/13/20 04:21	14808-79-8	

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QUALITY CONTROL DATA

Project: PLANT BRANCH AP-BCD 2ND SA
Pace Project No.: 2629733

QC Batch: 44425
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D MET
Associated Lab Samples: 2629733001, 2629733002

METHOD BLANK: 203825
Matrix: Water
Associated Lab Samples: 2629733001, 2629733002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	0.50	0.14	03/11/20 17:22	

LABORATORY CONTROL SAMPLE: 203826

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 203827 203828

Parameter	Units	2629679001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	5.3	1	1	6.6	6.3	129	101	75-125	4	20	M1

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QUALITY CONTROL DATA

Project: PLANT BRANCH AP-BCD 2ND SA
Pace Project No.: 2629733

QC Batch: 44427 Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A Analysis Description: 6010D MET
Associated Lab Samples: 2629733003, 2629733004, 2629733005, 2629733006, 2629733007, 2629733008, 2629733009, 2629733010, 2629733011, 2629733012, 2629733013, 2629733014, 2629733015, 2629733016

METHOD BLANK: 203834 Matrix: Water
Associated Lab Samples: 2629733003, 2629733004, 2629733005, 2629733006, 2629733007, 2629733008, 2629733009, 2629733010, 2629733011, 2629733012, 2629733013, 2629733014, 2629733015, 2629733016

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	0.50	0.14	03/11/20 21:07	

LABORATORY CONTROL SAMPLE: 203835

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 203836 203837

Parameter	Units	2629765017 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	69.8	1	1	70.2	71.5	34	170	75-125	2	20	M1

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QUALITY CONTROL DATA

Project: PLANT BRANCH AP-BCD 2ND SA
Pace Project No.: 2629733

QC Batch: 44482 Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A Analysis Description: 6010D MET
Associated Lab Samples: 2629733017, 2629733018, 2629733019

METHOD BLANK: 204090 Matrix: Water
Associated Lab Samples: 2629733017, 2629733018, 2629733019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	0.50	0.14	03/18/20 18:33	

LABORATORY CONTROL SAMPLE: 204091

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	0.99	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 204092 204093

Parameter	Units	2629733017 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	37.9	1	1	38.6	39.1	76	118	75-125	1	20	

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QUALITY CONTROL DATA

Project: PLANT BRANCH AP-BCD 2ND SA
Pace Project No.: 2629733

QC Batch: 44282 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020B MET
Associated Lab Samples: 2629733001, 2629733002

METHOD BLANK: 202999 Matrix: Water
Associated Lab Samples: 2629733001, 2629733002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00027	03/10/20 20:16	
Arsenic	mg/L	ND	0.0050	0.00035	03/10/20 20:16	
Barium	mg/L	ND	0.010	0.00049	03/10/20 20:16	
Beryllium	mg/L	ND	0.0030	0.000074	03/10/20 20:16	
Boron	mg/L	ND	0.10	0.0049	03/10/20 20:16	
Cadmium	mg/L	ND	0.0025	0.00011	03/10/20 20:16	
Chromium	mg/L	ND	0.010	0.00039	03/10/20 20:16	
Cobalt	mg/L	ND	0.0050	0.00030	03/10/20 20:16	
Lead	mg/L	ND	0.0050	0.000046	03/10/20 20:16	
Lithium	mg/L	ND	0.030	0.00078	03/10/20 20:16	
Selenium	mg/L	ND	0.010	0.0013	03/10/20 20:16	
Thallium	mg/L	ND	0.0010	0.000052	03/10/20 20:16	

LABORATORY CONTROL SAMPLE: 203000

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	108	80-120	
Arsenic	mg/L	0.1	0.10	100	80-120	
Barium	mg/L	0.1	0.10	102	80-120	
Beryllium	mg/L	0.1	0.10	100	80-120	
Boron	mg/L	1	1.0	103	80-120	
Cadmium	mg/L	0.1	0.10	101	80-120	
Chromium	mg/L	0.1	0.10	102	80-120	
Cobalt	mg/L	0.1	0.10	102	80-120	
Lead	mg/L	0.1	0.10	103	80-120	
Lithium	mg/L	0.1	0.10	103	80-120	
Selenium	mg/L	0.1	0.10	101	80-120	
Thallium	mg/L	0.1	0.10	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 203001 203002

Parameter	Units	2629733001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.11	0.11	111	110	75-125	1	20	
Arsenic	mg/L	0.0015J	0.1	0.1	0.11	0.11	106	105	75-125	1	20	
Barium	mg/L	0.060	0.1	0.1	0.17	0.18	115	116	75-125	1	20	
Beryllium	mg/L	ND	0.1	0.1	0.10	0.10	101	100	75-125	0	20	
Boron	mg/L	0.0065J	1	1	1.0	1.0	102	103	75-125	0	20	

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QUALITY CONTROL DATA

Project: PLANT BRANCH AP-BCD 2ND SA
Pace Project No.: 2629733

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 203001 203002

Parameter	Units	2629733001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cadmium	mg/L	ND	0.1	0.1	0.11	0.11	106	105	75-125	0	20	
Chromium	mg/L	0.0028J	0.1	0.1	0.11	0.11	112	107	75-125	4	20	
Cobalt	mg/L	ND	0.1	0.1	0.11	0.11	107	108	75-125	1	20	
Lead	mg/L	ND	0.1	0.1	0.11	0.10	108	105	75-125	2	20	
Lithium	mg/L	ND	0.1	0.1	0.099	0.099	99	99	75-125	0	20	
Selenium	mg/L	ND	0.1	0.1	0.11	0.10	106	104	75-125	3	20	
Thallium	mg/L	ND	0.1	0.1	0.11	0.10	107	105	75-125	2	20	

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QUALITY CONTROL DATA

Project: PLANT BRANCH AP-BCD 2ND SA
Pace Project No.: 2629733

QC Batch: 44486 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020B MET
Associated Lab Samples: 2629733003, 2629733004, 2629733005, 2629733006, 2629733007, 2629733008, 2629733009, 2629733010, 2629733011, 2629733012, 2629733013, 2629733014

METHOD BLANK: 204134 Matrix: Water
Associated Lab Samples: 2629733003, 2629733004, 2629733005, 2629733006, 2629733007, 2629733008, 2629733009, 2629733010, 2629733011, 2629733012, 2629733013, 2629733014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	0.00041J	0.0030	0.00027	03/12/20 19:54	
Arsenic	mg/L	ND	0.0050	0.00035	03/12/20 19:54	
Barium	mg/L	ND	0.010	0.00049	03/12/20 19:54	
Beryllium	mg/L	ND	0.0030	0.000074	03/12/20 19:54	
Boron	mg/L	ND	0.10	0.0049	03/12/20 19:54	
Cadmium	mg/L	ND	0.0025	0.00011	03/12/20 19:54	
Chromium	mg/L	ND	0.010	0.00039	03/12/20 19:54	
Cobalt	mg/L	ND	0.0050	0.00030	03/12/20 19:54	
Lead	mg/L	ND	0.0050	0.000046	03/12/20 19:54	
Lithium	mg/L	ND	0.030	0.00078	03/12/20 19:54	
Selenium	mg/L	ND	0.010	0.0013	03/12/20 19:54	
Thallium	mg/L	ND	0.0010	0.000052	03/12/20 19:54	

LABORATORY CONTROL SAMPLE: 204135

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	108	80-120	
Arsenic	mg/L	0.1	0.10	101	80-120	
Barium	mg/L	0.1	0.10	101	80-120	
Beryllium	mg/L	0.1	0.10	102	80-120	
Boron	mg/L	1	1.0	104	80-120	
Cadmium	mg/L	0.1	0.10	103	80-120	
Chromium	mg/L	0.1	0.10	101	80-120	
Cobalt	mg/L	0.1	0.10	101	80-120	
Lead	mg/L	0.1	0.10	102	80-120	
Lithium	mg/L	0.1	0.10	100	80-120	
Selenium	mg/L	0.1	0.096	96	80-120	
Thallium	mg/L	0.1	0.10	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 204136 204137

Parameter	Units	2629703017 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.11	0.11	109	110	75-125	1	20	
Arsenic	mg/L	ND	0.1	0.1	0.10	0.10	103	102	75-125	1	20	
Barium	mg/L	0.77	0.1	0.1	0.88	0.91	104	136	75-125	4	20	M1
Beryllium	mg/L	0.00014J	0.1	0.1	0.094	0.095	94	95	75-125	1	20	

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QUALITY CONTROL DATA

Project: PLANT BRANCH AP-BCD 2ND SA
Pace Project No.: 2629733

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 204136 204137

Parameter	Units	2629703017 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	mg/L	0.14	1	1	1.1	1.1	94	95	75-125	1	20	
Cadmium	mg/L	ND	0.1	0.1	0.11	0.11	107	105	75-125	1	20	
Chromium	mg/L	0.0027J	0.1	0.1	0.11	0.11	106	103	75-125	3	20	
Cobalt	mg/L	0.00093J	0.1	0.1	0.10	0.10	102	104	75-125	2	20	
Lead	mg/L	0.0010J	0.1	0.1	0.099	0.10	98	99	75-125	1	20	
Lithium	mg/L	0.015J	0.1	0.1	0.11	0.11	94	96	75-125	2	20	
Selenium	mg/L	ND	0.1	0.1	0.079	0.078	79	77	75-125	2	20	
Thallium	mg/L	0.000092J	0.1	0.1	0.099	0.10	99	100	75-125	1	20	

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QUALITY CONTROL DATA

Project: PLANT BRANCH AP-BCD 2ND SA
Pace Project No.: 2629733

QC Batch: 44487 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020B MET
Associated Lab Samples: 2629733015, 2629733016, 2629733017, 2629733018, 2629733019

METHOD BLANK: 204143 Matrix: Water
Associated Lab Samples: 2629733015, 2629733016, 2629733017, 2629733018, 2629733019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00027	03/16/20 14:26	
Arsenic	mg/L	0.00036J	0.0050	0.00035	03/16/20 14:26	
Barium	mg/L	ND	0.010	0.00049	03/16/20 14:26	
Beryllium	mg/L	ND	0.0030	0.000074	03/16/20 14:26	
Boron	mg/L	ND	0.10	0.0049	03/16/20 14:26	
Cadmium	mg/L	ND	0.0025	0.00011	03/16/20 14:26	
Chromium	mg/L	ND	0.010	0.00039	03/16/20 14:26	
Cobalt	mg/L	ND	0.0050	0.00030	03/16/20 14:26	
Lead	mg/L	ND	0.0050	0.000046	03/16/20 14:26	
Lithium	mg/L	ND	0.030	0.00078	03/16/20 14:26	
Selenium	mg/L	ND	0.010	0.0013	03/16/20 14:26	
Thallium	mg/L	ND	0.0010	0.000052	03/16/20 14:26	

LABORATORY CONTROL SAMPLE: 204144

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	101	80-120	
Arsenic	mg/L	0.1	0.098	98	80-120	
Barium	mg/L	0.1	0.098	98	80-120	
Beryllium	mg/L	0.1	0.10	101	80-120	
Boron	mg/L	1	1.0	101	80-120	
Cadmium	mg/L	0.1	0.10	100	80-120	
Chromium	mg/L	0.1	0.10	101	80-120	
Cobalt	mg/L	0.1	0.099	99	80-120	
Lead	mg/L	0.1	0.096	96	80-120	
Lithium	mg/L	0.1	0.10	100	80-120	
Selenium	mg/L	0.1	0.095	95	80-120	
Thallium	mg/L	0.1	0.097	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 204145 204146

Parameter	Units	2629733015 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.11	0.10	106	102	75-125	3	20	
Arsenic	mg/L	ND	0.1	0.1	0.10	0.10	105	101	75-125	4	20	
Barium	mg/L	0.025	0.1	0.1	0.13	0.12	102	98	75-125	3	20	
Beryllium	mg/L	ND	0.1	0.1	0.095	0.092	95	92	75-125	4	20	
Boron	mg/L	1.5	1	1	2.6	2.4	112	94	75-125	7	20	

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QUALITY CONTROL DATA

Project: PLANT BRANCH AP-BCD 2ND SA
Pace Project No.: 2629733

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 204145 204146

Parameter	Units	2629733015 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cadmium	mg/L	ND	0.1	0.1	0.10	0.10	104	102	75-125	2	20	
Chromium	mg/L	ND	0.1	0.1	0.098	0.096	97	95	75-125	2	20	
Cobalt	mg/L	0.0011J	0.1	0.1	0.098	0.098	97	97	75-125	0	20	
Lead	mg/L	ND	0.1	0.1	0.096	0.095	96	95	75-125	1	20	
Lithium	mg/L	0.016J	0.1	0.1	0.12	0.11	99	93	75-125	5	20	
Selenium	mg/L	ND	0.1	0.1	0.10	0.10	101	99	75-125	2	20	
Thallium	mg/L	ND	0.1	0.1	0.098	0.095	98	95	75-125	3	20	

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QUALITY CONTROL DATA

Project: PLANT BRANCH AP-BCD 2ND SA
Pace Project No.: 2629733

QC Batch: 44309
QC Batch Method: SM 2540C
Analysis Method: SM 2540C
Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 2629733001, 2629733002

LABORATORY CONTROL SAMPLE: 203157

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	396	99	84-108	

SAMPLE DUPLICATE: 203158

Parameter	Units	2629679001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	52.0	49.0	6	10	

SAMPLE DUPLICATE: 203159

Parameter	Units	2629766004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	63.0	67.0	6	10	

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QUALITY CONTROL DATA

Project: PLANT BRANCH AP-BCD 2ND SA
Pace Project No.: 2629733

QC Batch: 44453 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 2629733003, 2629733004, 2629733005, 2629733006, 2629733007, 2629733008, 2629733009, 2629733010, 2629733011, 2629733012

LABORATORY CONTROL SAMPLE: 203948

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	394	98	84-108	

SAMPLE DUPLICATE: 203949

Parameter	Units	2629751001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	337	344	2	10	

SAMPLE DUPLICATE: 203950

Parameter	Units	2629733003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	118	119	1	10	

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QUALITY CONTROL DATA

Project: PLANT BRANCH AP-BCD 2ND SA
Pace Project No.: 2629733

QC Batch: 44470 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 2629733013, 2629733014, 2629733015, 2629733016

LABORATORY CONTROL SAMPLE: 204029

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	413	103	84-108	

SAMPLE DUPLICATE: 204030

Parameter	Units	2629733013 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	11.0	10.0	10	10	

SAMPLE DUPLICATE: 204031

Parameter	Units	2629884001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	152	167	9	10	

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QUALITY CONTROL DATA

Project: PLANT BRANCH AP-BCD 2ND SA
Pace Project No.: 2629733

QC Batch: 44505 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 2629733017, 2629733018, 2629733019

LABORATORY CONTROL SAMPLE: 204334

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	390	98	84-108	

SAMPLE DUPLICATE: 204335

Parameter	Units	2629733017 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	297	314	6	10	

SAMPLE DUPLICATE: 204336

Parameter	Units	2629734014 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	457	455	0	10	

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QUALITY CONTROL DATA

Project: PLANT BRANCH AP-BCD 2ND SA
Pace Project No.: 2629733

QC Batch: 529130 Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 2629733001, 2629733002

METHOD BLANK: 2826277 Matrix: Water
Associated Lab Samples: 2629733001, 2629733002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	03/07/20 11:50	
Fluoride	mg/L	ND	0.10	0.050	03/07/20 11:50	
Sulfate	mg/L	ND	1.0	0.50	03/07/20 11:50	

LABORATORY CONTROL SAMPLE: 2826278

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	51.6	103	90-110	
Fluoride	mg/L	2.5	2.3	91	90-110	
Sulfate	mg/L	50	50.3	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2826279 2826280

Parameter	Units	92468399001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	3.3	50	50	54.6	51.8	102	97	90-110	5	10	
Fluoride	mg/L	ND	2.5	2.5	2.1	2.0	81	76	90-110	6	10	M1
Sulfate	mg/L	10	50	50	60.0	57.2	100	94	90-110	5	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2826281 2826282

Parameter	Units	2629733001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	3.2	50	50	52.6	53.3	99	100	90-110	1	10	
Fluoride	mg/L	ND	2.5	2.5	2.1	2.1	82	85	90-110	3	10	M1
Sulfate	mg/L	0.51J	50	50	48.9	49.4	97	98	90-110	1	10	

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QUALITY CONTROL DATA

Project: PLANT BRANCH AP-BCD 2ND SA
Pace Project No.: 2629733

QC Batch: 529972 Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 2629733003, 2629733004, 2629733005, 2629733006, 2629733007, 2629733008, 2629733009, 2629733010, 2629733011, 2629733012, 2629733013, 2629733014, 2629733015, 2629733016, 2629733017, 2629733018, 2629733019

METHOD BLANK: 2830385 Matrix: Water
Associated Lab Samples: 2629733003, 2629733004, 2629733005, 2629733006, 2629733007, 2629733008, 2629733009, 2629733010, 2629733011, 2629733012, 2629733013, 2629733014, 2629733015, 2629733016, 2629733017, 2629733018, 2629733019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	03/13/20 08:37	
Fluoride	mg/L	ND	0.10	0.050	03/13/20 08:37	
Sulfate	mg/L	ND	1.0	0.50	03/13/20 08:37	

LABORATORY CONTROL SAMPLE: 2830386

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	52.5	105	90-110	
Fluoride	mg/L	2.5	2.4	94	90-110	
Sulfate	mg/L	50	54.5	109	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2830387 2830388

Parameter	Units	92468702015 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	45.5	50	50	95.4	95.2	100	99	90-110	0	10	
Fluoride	mg/L	1.5	2.5	2.5	3.5	3.6	82	87	90-110	4	10	M1
Sulfate	mg/L	1690	50	50	1760	1780	126	179	90-110	2	10	M6

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2830389 2830390

Parameter	Units	2629733011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	5.1	50	50	56.2	55.3	102	100	90-110	2	10	
Fluoride	mg/L	ND	2.5	2.5	1.5	1.6	60	62	90-110	4	10	M1
Sulfate	mg/L	199	50	50	246	244	94	90	90-110	1	10	

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QUALIFIERS

Project: PLANT BRANCH AP-BCD 2ND SA
Pace Project No.: 2629733

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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TNI - The NELAC Institute.

LABORATORIES

PASI-A	Pace Analytical Services - Asheville
PASI-GA	Pace Analytical Services - Atlanta, GA

ANALYTE QUALIFIERS

B	Analyte was detected in the associated method blank.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
M6	Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: PLANT BRANCH AP-BCD 2ND SA
Pace Project No.: 2629733

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2629733001	BRGWA-12S				
2629733002	BRGWA-12I				
2629733003	BRGWA-23S				
2629733004	BRGWC-47				
2629733007	BRGWC-27I				
2629733008	BRGWC-50				
2629733009	BRGWC-25I				
2629733010	BRGWC-52I				
2629733014	BRGWC-29I				
2629733015	BRGWC-30I				
2629733016	BRGWC-32S				
2629733017	BRGWC-45				
2629733001	BRGWA-12S	EPA 3010A	44425	EPA 6010D	44437
2629733002	BRGWA-12I	EPA 3010A	44425	EPA 6010D	44437
2629733003	BRGWA-23S	EPA 3010A	44427	EPA 6010D	44443
2629733004	BRGWC-47	EPA 3010A	44427	EPA 6010D	44443
2629733005	FB-1	EPA 3010A	44427	EPA 6010D	44443
2629733006	EB-1	EPA 3010A	44427	EPA 6010D	44443
2629733007	BRGWC-27I	EPA 3010A	44427	EPA 6010D	44443
2629733008	BRGWC-50	EPA 3010A	44427	EPA 6010D	44443
2629733009	BRGWC-25I	EPA 3010A	44427	EPA 6010D	44443
2629733010	BRGWC-52I	EPA 3010A	44427	EPA 6010D	44443
2629733011	DUP-1	EPA 3010A	44427	EPA 6010D	44443
2629733012	DUP-2	EPA 3010A	44427	EPA 6010D	44443
2629733013	EB-2	EPA 3010A	44427	EPA 6010D	44443
2629733014	BRGWC-29I	EPA 3010A	44427	EPA 6010D	44443
2629733015	BRGWC-30I	EPA 3010A	44427	EPA 6010D	44443
2629733016	BRGWC-32S	EPA 3010A	44427	EPA 6010D	44443
2629733017	BRGWC-45	EPA 3010A	44482	EPA 6010D	44490
2629733018	EB-3	EPA 3010A	44482	EPA 6010D	44490
2629733019	FB-3	EPA 3010A	44482	EPA 6010D	44490
2629733001	BRGWA-12S	EPA 3005A	44282	EPA 6020B	44315
2629733002	BRGWA-12I	EPA 3005A	44282	EPA 6020B	44315
2629733003	BRGWA-23S	EPA 3005A	44486	EPA 6020B	44510
2629733004	BRGWC-47	EPA 3005A	44486	EPA 6020B	44510
2629733005	FB-1	EPA 3005A	44486	EPA 6020B	44510
2629733006	EB-1	EPA 3005A	44486	EPA 6020B	44510
2629733007	BRGWC-27I	EPA 3005A	44486	EPA 6020B	44510
2629733008	BRGWC-50	EPA 3005A	44486	EPA 6020B	44510
2629733009	BRGWC-25I	EPA 3005A	44486	EPA 6020B	44510
2629733010	BRGWC-52I	EPA 3005A	44486	EPA 6020B	44510
2629733011	DUP-1	EPA 3005A	44486	EPA 6020B	44510
2629733012	DUP-2	EPA 3005A	44486	EPA 6020B	44510
2629733013	EB-2	EPA 3005A	44486	EPA 6020B	44510
2629733014	BRGWC-29I	EPA 3005A	44486	EPA 6020B	44510
2629733015	BRGWC-30I	EPA 3005A	44487	EPA 6020B	44511

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Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: PLANT BRANCH AP-BCD 2ND SA
Pace Project No.: 2629733

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2629733016	**BRGWC-32S**	EPA 3005A	44487	EPA 6020B	44511
2629733017	**BRGWC-45**	EPA 3005A	44487	EPA 6020B	44511
2629733018	**EB-3**	EPA 3005A	44487	EPA 6020B	44511
2629733019	**FB-3**	EPA 3005A	44487	EPA 6020B	44511
2629733001	**BRGWA-12S**	SM 2540C	44309		
2629733002	**BRGWA-12I**	SM 2540C	44309		
2629733003	**BRGWA-23S**	SM 2540C	44453		
2629733004	**BRGWC-47**	SM 2540C	44453		
2629733005	**FB-1**	SM 2540C	44453		
2629733006	**EB-1**	SM 2540C	44453		
2629733007	**BRGWC-27I**	SM 2540C	44453		
2629733008	**BRGWC-50**	SM 2540C	44453		
2629733009	**BRGWC-25I**	SM 2540C	44453		
2629733010	**BRGWC-52I**	SM 2540C	44453		
2629733011	**DUP-1**	SM 2540C	44453		
2629733012	**DUP-2**	SM 2540C	44453		
2629733013	**EB-2**	SM 2540C	44470		
2629733014	**BRGWC-29I**	SM 2540C	44470		
2629733015	**BRGWC-30I**	SM 2540C	44470		
2629733016	**BRGWC-32S**	SM 2540C	44470		
2629733017	**BRGWC-45**	SM 2540C	44505		
2629733018	**EB-3**	SM 2540C	44505		
2629733019	**FB-3**	SM 2540C	44505		
2629733001	**BRGWA-12S**	EPA 300.0 Rev 2.1 1993	529130		
2629733002	**BRGWA-12I**	EPA 300.0 Rev 2.1 1993	529130		
2629733003	**BRGWA-23S**	EPA 300.0 Rev 2.1 1993	529972		
2629733004	**BRGWC-47**	EPA 300.0 Rev 2.1 1993	529972		
2629733005	**FB-1**	EPA 300.0 Rev 2.1 1993	529972		
2629733006	**EB-1**	EPA 300.0 Rev 2.1 1993	529972		
2629733007	**BRGWC-27I**	EPA 300.0 Rev 2.1 1993	529972		
2629733008	**BRGWC-50**	EPA 300.0 Rev 2.1 1993	529972		
2629733009	**BRGWC-25I**	EPA 300.0 Rev 2.1 1993	529972		
2629733010	**BRGWC-52I**	EPA 300.0 Rev 2.1 1993	529972		
2629733011	**DUP-1**	EPA 300.0 Rev 2.1 1993	529972		
2629733012	**DUP-2**	EPA 300.0 Rev 2.1 1993	529972		
2629733013	**EB-2**	EPA 300.0 Rev 2.1 1993	529972		
2629733014	**BRGWC-29I**	EPA 300.0 Rev 2.1 1993	529972		
2629733015	**BRGWC-30I**	EPA 300.0 Rev 2.1 1993	529972		
2629733016	**BRGWC-32S**	EPA 300.0 Rev 2.1 1993	529972		
2629733017	**BRGWC-45**	EPA 300.0 Rev 2.1 1993	529972		
2629733018	**EB-3**	EPA 300.0 Rev 2.1 1993	529972		
2629733019	**FB-3**	EPA 300.0 Rev 2.1 1993	529972		

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www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Docu

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed acc

WO# : 2629733

2629733

Page:

Section A Required Client Information:

Company:	GA Power
Address:	Atlanta, GA
Email To:	SCS Contacts
Phone:	Fax:
Requested Due Date/TAT:	10 Day

Section B Required Project Information:

Report To:	SCS Contacts
Copy To:	Golder Contacts
Purchase Order No.:	
Project Name:	Plant Branch AP-BCD 2nd Semi-Annual
Project Number:	166625418

Section C Invoice Information:

Attention:	Southern Co.
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	Kevin Herring
Pace Profile #:	2905-5

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER

☐ UST ☐ RCRA ☑ OTHER CCR

Site Location STATE: GA

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE DATE	COLLECTED COMPOSITE TIME	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Chloride/Fluoride/Sulfate	Metals 6010/6020/7470*	TDS	RAD 226/228	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	BRGWC-30I	WT	G			3-5-20	0910		5	2		3						X	X	X	X			
2	BRGWC-32S	WT	G			3-5-20	1025		5	2		3						X	X	X	X			
3	BRGWC-45	WT	G			3-5-20	1605		7	2		5						X	X	X	X			extra radiums
4	EB-3	WT	G			3-5-20	1530		5	2		3						X	X	X	X			
5	FB-3	WT	G			3-5-20	~~1534~~ 1300		5	2		3						X	X	X	X			
6																								
7																								
8																								
9																								
10																								
11																								
12																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Please note dry wells, strike thorugh any wells not sampled, and note when the last sample for the event has been taken.	DARREN COX / GOLDER	3-6-2020	945		3/6/20	0945	0.2	Y	N	Y
*Metals=As,B,Ba,Be,Ca,Cd,Co,Cr,No, Pb,Sb,Se,U,Tl,Hg										

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: DARREN COX

SIGNATURE of SAMPLER:

DATE Signed (MM/DD/YY): 3-6-2020

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-Feb-2007

Sample Condition Upon Receipt

Pace Analytical

Client Name: GA Power

WO#: 2629733

PM: KH Due Date: 03/18/20

CLIENT: 26-GA Power

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Commercial ☐ Pace Other

Tracking #: _____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Proj. Name:

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other _____

Thermometer Used 230 Type of Ice: (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 0.2°C Biological Tissue is Frozen: Yes No

Temp should be above freezing to 6°C Comments:

Date and Initials of person examining contents: 3/6/20 dy

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☐Yes ☑No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	3/6/20
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☑No	Initial when completed: AW Lot # of added preservative:
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	15.
Trip Blank Present:	☐Yes ☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ **Date:** _____

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

December 17, 2019

Joju Abraham
Georgia Power - Coal Combustion Residuals
2480 Maner Road
Atlanta, GA 30339

RE: Project: Plant Branch
Pace Project No.: 2624487

Dear Joju Abraham:
Enclosed are the analytical results for sample(s) received by the laboratory on October 17, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kevin Herring for
Betsy McDaniel
betsy.mcdaniel@pacelabs.com
(770)734-4200
Project Manager

Enclosures

cc: Julie Lehrman, Golder Associates Inc.
Dawn Prell, Golder Associates Inc.
Eric Rolle, Georgia Power - Coal Combustion Residuals
Rebecca Thornton, Pace Analytical Atlanta

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CERTIFICATIONS

Project: Plant Branch
Pace Project No.: 2624487

Pace Analytical Services Atlanta
110 Technology Parkway Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
Georgia DW Microbiology Certification #: 812
North Carolina Certification #: 381
South Carolina Certification #: 98011001
Virginia Certification #: 460204

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SAMPLE SUMMARY

Project: Plant Branch
Pace Project No.: 2624487

Lab ID	Sample ID	Matrix	Date Collected	Date Received
2624487001	**BRGWC-29I**	Water	10/16/19 09:50	10/17/19 11:35
2624487002	**BRGWC-47**	Water	10/16/19 11:35	10/17/19 11:35
2624487003	**BRGWC-50**	Water	10/16/19 13:25	10/17/19 11:35
2624487004	**BRGWC-52I**	Water	10/16/19 14:55	10/17/19 11:35
2624487005	**Dup-2**	Water	10/16/19 00:00	10/17/19 11:35

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SAMPLE ANALYTE COUNT

Project: Plant Branch
Pace Project No.: 2624487

Lab ID	Sample ID	Method	Analysts	Analytes Reported
2624487001	**BRGWC-29I**	EPA 6020B	CSW	14
		SM 2540C	MZP	1
		EPA 300.0	MWB	3
2624487002	**BRGWC-47**	EPA 6020B	CSW	14
		SM 2540C	MZP	1
		EPA 300.0	MWB	3
2624487003	**BRGWC-50**	EPA 6020B	CSW	14
		SM 2540C	MZP	1
		EPA 300.0	MWB	3
2624487004	**BRGWC-52I**	EPA 6020B	CSW	14
		SM 2540C	MZP	1
		EPA 300.0	MWB	3
2624487005	**Dup-2**	EPA 6020B	CSW	14
		SM 2540C	MZP	1
		EPA 300.0	MWB	3

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ANALYTICAL RESULTS

Project: Plant Branch
Pace Project No.: 2624487

Sample: BRGWC-29I **Lab ID: 2624487001** Collected: 10/16/19 09:50 Received: 10/17/19 11:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00027	1	10/21/19 16:03	10/23/19 20:20	7440-36-0	
Arsenic	**0.00065J**	mg/L	0.0050	0.00035	1	10/21/19 16:03	10/23/19 20:20	7440-38-2	
Barium	**0.019**	mg/L	0.010	0.00049	1	10/21/19 16:03	10/23/19 20:20	7440-39-3	
Beryllium	**0.00072J**	mg/L	0.0030	0.000074	1	10/21/19 16:03	10/23/19 20:20	7440-41-7	
Boron	**1.2**	mg/L	0.040	0.0049	1	10/21/19 16:03	10/23/19 20:20	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	10/21/19 16:03	10/23/19 20:20	7440-43-9	
Calcium	**54.0**	mg/L	5.0	0.55	50	10/21/19 16:03	10/23/19 20:26	7440-70-2	
Chromium	ND	mg/L	0.010	0.00039	1	10/21/19 16:03	10/23/19 20:20	7440-47-3	
Cobalt	**0.0058**	mg/L	0.0050	0.00030	1	10/21/19 16:03	10/23/19 20:20	7440-48-4	
Lead	**0.00027J**	mg/L	0.0050	0.000046	1	10/21/19 16:03	10/23/19 20:20	7439-92-1	
Lithium	**0.0029J**	mg/L	0.030	0.00078	1	10/21/19 16:03	10/23/19 20:20	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00095	1	10/21/19 16:03	10/23/19 20:20	7439-98-7	
Selenium	ND	mg/L	0.010	0.0013	1	10/21/19 16:03	10/23/19 20:20	7782-49-2	
Thallium	**0.00017J**	mg/L	0.0010	0.000052	1	10/21/19 16:03	10/23/19 20:20	7440-28-0	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**2030**	mg/L	10.0	10.0	1		10/23/19 15:47		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**6.9**	mg/L	1.0	0.024	1		10/24/19 21:42	16887-00-6	
Fluoride	**0.11J**	mg/L	0.30	0.029	1		10/24/19 21:42	16984-48-8	
Sulfate	**266**	mg/L	20.0	0.34	20		10/25/19 05:18	14808-79-8	

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(770)734-4200

ANALYTICAL RESULTS

Project: Plant Branch
Pace Project No.: 2624487

Sample: BRGWC-47 **Lab ID: 2624487002** Collected: 10/16/19 11:35 Received: 10/17/19 11:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00027	1	10/21/19 16:03	10/23/19 20:43	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	10/21/19 16:03	10/23/19 20:43	7440-38-2	
Barium	**0.032**	mg/L	0.010	0.00049	1	10/21/19 16:03	10/23/19 20:43	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	10/21/19 16:03	10/23/19 20:43	7440-41-7	
Boron	**0.36**	mg/L	0.040	0.0049	1	10/21/19 16:03	10/23/19 20:43	7440-42-8	
Cadmium	**0.00018J**	mg/L	0.0025	0.00011	1	10/21/19 16:03	10/23/19 20:43	7440-43-9	
Calcium	**338**	mg/L	5.0	0.55	50	10/21/19 16:03	10/23/19 20:49	7440-70-2	
Chromium	ND	mg/L	0.010	0.00039	1	10/21/19 16:03	10/23/19 20:43	7440-47-3	
Cobalt	**0.00032J**	mg/L	0.0050	0.00030	1	10/21/19 16:03	10/23/19 20:43	7440-48-4	
Lead	ND	mg/L	0.0050	0.000046	1	10/21/19 16:03	10/23/19 20:43	7439-92-1	
Lithium	**0.038**	mg/L	0.030	0.00078	1	10/21/19 16:03	10/25/19 09:50	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00095	1	10/21/19 16:03	10/23/19 20:43	7439-98-7	
Selenium	**0.0017J**	mg/L	0.010	0.0013	1	10/21/19 16:03	10/23/19 20:43	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000052	1	10/21/19 16:03	10/23/19 20:43	7440-28-0	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**2220**	mg/L	10.0	10.0	1		10/23/19 15:47		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**4.6**	mg/L	1.0	0.024	1		10/24/19 22:04	16887-00-6	
Fluoride	**0.076J**	mg/L	0.30	0.029	1		10/24/19 22:04	16984-48-8	
Sulfate	**1560**	mg/L	50.0	0.85	50		10/25/19 06:45	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Branch
Pace Project No.: 2624487

Sample: BRGWC-50 **Lab ID: 2624487003** Collected: 10/16/19 13:25 Received: 10/17/19 11:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00027	1	10/21/19 16:03	10/23/19 20:55	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	10/21/19 16:03	10/23/19 20:55	7440-38-2	
Barium	**0.017**	mg/L	0.010	0.00049	1	10/21/19 16:03	10/23/19 20:55	7440-39-3	
Beryllium	**0.0027J**	mg/L	0.0030	0.000074	1	10/21/19 16:03	10/23/19 20:55	7440-41-7	
Boron	**0.31**	mg/L	0.040	0.0049	1	10/21/19 16:03	10/23/19 20:55	7440-42-8	
Cadmium	**0.014**	mg/L	0.0025	0.00011	1	10/21/19 16:03	10/23/19 20:55	7440-43-9	
Calcium	**241**	mg/L	5.0	0.55	50	10/21/19 16:03	10/23/19 21:00	7440-70-2	
Chromium	**0.00050J**	mg/L	0.010	0.00039	1	10/21/19 16:03	10/23/19 20:55	7440-47-3	
Cobalt	**1.4**	mg/L	0.0050	0.00030	1	10/21/19 16:03	10/23/19 20:55	7440-48-4	
Lead	**0.000085J**	mg/L	0.0050	0.000046	1	10/21/19 16:03	10/23/19 20:55	7439-92-1	
Lithium	**0.034**	mg/L	0.030	0.00078	1	10/21/19 16:03	10/25/19 09:56	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00095	1	10/21/19 16:03	10/23/19 20:55	7439-98-7	
Selenium	**0.0020J**	mg/L	0.010	0.0013	1	10/21/19 16:03	10/23/19 20:55	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000052	1	10/21/19 16:03	10/23/19 20:55	7440-28-0	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**2280**	mg/L	10.0	10.0	1		10/23/19 15:47		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**21.9**	mg/L	1.0	0.024	1		10/24/19 22:47	16887-00-6	
Fluoride	**0.39**	mg/L	0.30	0.029	1		10/24/19 22:47	16984-48-8	
Sulfate	**1590**	mg/L	50.0	0.85	50		10/25/19 07:07	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Branch
Pace Project No.: 2624487

Sample: BRGWC-52I **Lab ID: 2624487004** Collected: 10/16/19 14:55 Received: 10/17/19 11:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00027	1	10/21/19 16:03	10/23/19 21:06	7440-36-0	
Arsenic	**0.0026J**	mg/L	0.0050	0.00035	1	10/21/19 16:03	10/23/19 21:06	7440-38-2	
Barium	**0.015**	mg/L	0.010	0.00049	1	10/21/19 16:03	10/23/19 21:06	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	10/21/19 16:03	10/23/19 21:06	7440-41-7	
Boron	**1.3**	mg/L	0.040	0.0049	1	10/21/19 16:03	10/23/19 21:06	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	10/21/19 16:03	10/23/19 21:06	7440-43-9	
Calcium	**48.4**	mg/L	5.0	0.55	50	10/21/19 16:03	10/23/19 21:12	7440-70-2	
Chromium	ND	mg/L	0.010	0.00039	1	10/21/19 16:03	10/23/19 21:06	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	10/21/19 16:03	10/23/19 21:06	7440-48-4	
Lead	ND	mg/L	0.0050	0.000046	1	10/21/19 16:03	10/23/19 21:06	7439-92-1	
Lithium	**0.0023J**	mg/L	0.030	0.00078	1	10/21/19 16:03	10/25/19 10:01	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00095	1	10/21/19 16:03	10/23/19 21:06	7439-98-7	
Selenium	ND	mg/L	0.010	0.0013	1	10/21/19 16:03	10/23/19 21:06	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000052	1	10/21/19 16:03	10/23/19 21:06	7440-28-0	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**346**	mg/L	10.0	10.0	1		10/23/19 15:47		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**7.0**	mg/L	1.0	0.024	1		10/24/19 23:09	16887-00-6	
Fluoride	**0.22J**	mg/L	0.30	0.029	1		10/24/19 23:09	16984-48-8	
Sulfate	**155**	mg/L	10.0	0.17	10		10/25/19 07:29	14808-79-8	

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(770)734-4200

ANALYTICAL RESULTS

Project: Plant Branch
Pace Project No.: 2624487

Sample: Dup-2 **Lab ID: 2624487005** Collected: 10/16/19 00:00 Received: 10/17/19 11:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00027	1	10/21/19 16:03	10/23/19 21:17	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	10/21/19 16:03	10/23/19 21:17	7440-38-2	
Barium	**0.018**	mg/L	0.010	0.00049	1	10/21/19 16:03	10/23/19 21:17	7440-39-3	
Beryllium	**0.00061J**	mg/L	0.0030	0.000074	1	10/21/19 16:03	10/23/19 21:17	7440-41-7	
Boron	**1.1**	mg/L	0.040	0.0049	1	10/21/19 16:03	10/23/19 21:17	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	10/21/19 16:03	10/23/19 21:17	7440-43-9	
Calcium	**53.5**	mg/L	5.0	0.55	50	10/21/19 16:03	10/23/19 21:23	7440-70-2	
Chromium	ND	mg/L	0.010	0.00039	1	10/21/19 16:03	10/23/19 21:17	7440-47-3	
Cobalt	**0.0056**	mg/L	0.0050	0.00030	1	10/21/19 16:03	10/23/19 21:17	7440-48-4	
Lead	**0.00027J**	mg/L	0.0050	0.000046	1	10/21/19 16:03	10/23/19 21:17	7439-92-1	
Lithium	**0.0027J**	mg/L	0.030	0.00078	1	10/21/19 16:03	10/25/19 10:07	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00095	1	10/21/19 16:03	10/23/19 21:17	7439-98-7	
Selenium	ND	mg/L	0.010	0.0013	1	10/21/19 16:03	10/23/19 21:17	7782-49-2	
Thallium	**0.00016J**	mg/L	0.0010	0.000052	1	10/21/19 16:03	10/23/19 21:17	7440-28-0	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**393**	mg/L	10.0	10.0	1		10/23/19 15:48		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**6.9**	mg/L	1.0	0.024	1		10/24/19 23:31	16887-00-6	
Fluoride	**0.12J**	mg/L	0.30	0.029	1		10/24/19 23:31	16984-48-8	
Sulfate	**275**	mg/L	20.0	0.34	20		10/25/19 07:51	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Branch
Pace Project No.: 2624487

QC Batch: 37286 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020B MET
Associated Lab Samples: 2624487001, 2624487002, 2624487003, 2624487004, 2624487005

METHOD BLANK: 168679 Matrix: Water
Associated Lab Samples: 2624487001, 2624487002, 2624487003, 2624487004, 2624487005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00027	10/23/19 18:31	
Arsenic	mg/L	ND	0.0050	0.00035	10/23/19 18:31	
Barium	mg/L	ND	0.010	0.00049	10/23/19 18:31	
Beryllium	mg/L	ND	0.0030	0.000074	10/23/19 18:31	
Boron	mg/L	ND	0.040	0.0049	10/23/19 18:31	
Cadmium	mg/L	ND	0.0025	0.00011	10/23/19 18:31	
Calcium	mg/L	ND	0.10	0.011	10/23/19 18:31	
Chromium	mg/L	ND	0.010	0.00039	10/23/19 18:31	
Cobalt	mg/L	ND	0.0050	0.00030	10/23/19 18:31	
Lead	mg/L	ND	0.0050	0.000046	10/23/19 18:31	
Lithium	mg/L	ND	0.030	0.00078	10/23/19 18:31	
Molybdenum	mg/L	ND	0.010	0.00095	10/23/19 18:31	
Selenium	mg/L	ND	0.010	0.0013	10/23/19 18:31	
Thallium	mg/L	ND	0.0010	0.000052	10/23/19 18:31	

LABORATORY CONTROL SAMPLE: 168680

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	102	80-120	
Arsenic	mg/L	0.1	0.098	98	80-120	
Barium	mg/L	0.1	0.10	101	80-120	
Beryllium	mg/L	0.1	0.10	103	80-120	
Boron	mg/L	1	0.99	99	80-120	
Cadmium	mg/L	0.1	0.10	100	80-120	
Calcium	mg/L	1	1.0	101	80-120	
Chromium	mg/L	0.1	0.099	99	80-120	
Cobalt	mg/L	0.1	0.098	98	80-120	
Lead	mg/L	0.1	0.10	101	80-120	
Lithium	mg/L	0.1	0.10	103	80-120	
Molybdenum	mg/L	0.1	0.10	101	80-120	
Selenium	mg/L	0.1	0.095	95	80-120	
Thallium	mg/L	0.1	0.10	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 168681 168682

Parameter	Units	2624484003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.10	0.10	100	100	75-125	0	20	

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QUALITY CONTROL DATA

Project: Plant Branch
Pace Project No.: 2624487

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 168681 168682

Parameter	Units	2624484003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	0.00040J	0.1	0.1	0.10	0.10	100	100	75-125	0	20	
Barium	mg/L	0.037	0.1	0.1	0.15	0.14	109	107	75-125	1	20	
Beryllium	mg/L	0.00015J	0.1	0.1	0.095	0.094	95	94	75-125	0	20	
Boron	mg/L	2.2	1	1	3.1	3.1	90	90	75-125	0	20	
Cadmium	mg/L	ND	0.1	0.1	0.10	0.10	100	100	75-125	1	20	
Calcium	mg/L	61.2	1	1	62.7	66.1	145	485	75-125	5	20	M6
Chromium	mg/L	0.0064J	0.1	0.1	0.11	0.10	100	98	75-125	2	20	
Cobalt	mg/L	ND	0.1	0.1	0.097	0.097	97	97	75-125	0	20	
Lead	mg/L	ND	0.1	0.1	0.097	0.097	97	97	75-125	0	20	
Lithium	mg/L	0.0022J	0.1	0.1	0.096	0.095	94	93	75-125	1	20	
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	104	101	75-125	3	20	
Selenium	mg/L	ND	0.1	0.1	0.096	0.096	96	95	75-125	0	20	
Thallium	mg/L	ND	0.1	0.1	0.098	0.098	98	98	75-125	0	20	

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QUALITY CONTROL DATA

Project: Plant Branch
Pace Project No.: 2624487

QC Batch: 37419 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 2624487001, 2624487002, 2624487003, 2624487004, 2624487005

LABORATORY CONTROL SAMPLE: 169291

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	391	98	84-108	

SAMPLE DUPLICATE: 169292

Parameter	Units	2624484007 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	ND	ND		10	

SAMPLE DUPLICATE: 169293

Parameter	Units	2624491004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	500	501	0	10	

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QUALITY CONTROL DATA

Project: Plant Branch
Pace Project No.: 2624487

QC Batch: 37461 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 2624487001, 2624487002, 2624487003, 2624487004, 2624487005

METHOD BLANK: 169631 Matrix: Water
Associated Lab Samples: 2624487001, 2624487002, 2624487003, 2624487004, 2624487005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	0.043J	1.0	0.024	10/24/19 16:21	
Fluoride	mg/L	ND	0.30	0.029	10/24/19 16:21	
Sulfate	mg/L	ND	1.0	0.017	10/24/19 16:21	

LABORATORY CONTROL SAMPLE: 169632

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	10	10.6	106	90-110	
Fluoride	mg/L	10	10.9	109	90-110	
Sulfate	mg/L	10	10.4	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 169633 169634

Parameter	Units	2624484001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	5.4	10	10	15.3	15.3	99	100	90-110	0	15	
Fluoride	mg/L	0.17J	10	10	11.1	11.1	110	110	90-110	0	15	

MATRIX SPIKE SAMPLE: 169635

Parameter	Units	2624487002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	4.6	10	14.7	101	90-110	
Fluoride	mg/L	0.076J	10	10.6	106	90-110	

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QUALIFIERS

Project: Plant Branch
Pace Project No.: 2624487

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M6 Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Branch
Pace Project No.: 2624487

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2624487001	**BRGWC-29I**	EPA 3005A	37286	EPA 6020B	37308
2624487002	**BRGWC-47**	EPA 3005A	37286	EPA 6020B	37308
2624487003	**BRGWC-50**	EPA 3005A	37286	EPA 6020B	37308
2624487004	**BRGWC-52I**	EPA 3005A	37286	EPA 6020B	37308
2624487005	**Dup-2**	EPA 3005A	37286	EPA 6020B	37308
2624487001	**BRGWC-29I**	SM 2540C	37419		
2624487002	**BRGWC-47**	SM 2540C	37419		
2624487003	**BRGWC-50**	SM 2540C	37419		
2624487004	**BRGWC-52I**	SM 2540C	37419		
2624487005	**Dup-2**	SM 2540C	37419		
2624487001	**BRGWC-29I**	EPA 300.0	37461		
2624487002	**BRGWC-47**	EPA 300.0	37461		
2624487003	**BRGWC-50**	EPA 300.0	37461		
2624487004	**BRGWC-52I**	EPA 300.0	37461		
2624487005	**Dup-2**	EPA 300.0	37461		

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WO#: 2624487

2624487

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Workorder Number or

E ONLY

Company: Georgia Power - Coal Combustion Residuals	Billing Information:
Address: 2480 Maner Road Atlanta, GA 30339	
Report To: Joju Abraham	Email To: scsinvoices@southernco.com
Copy To: Golder	Site Collection Info/Address: Plant Branch
phone: (404) 506-7239 Email: jabraham@southernco.com	State: Georgia City: Milledgeville Time Zone Collected: [ ]PT [ ]MT [ ]CT [X]ET
Phone: (404) 506-7239 Email: jabraham@southernco.com	Project Name: Plant Branch BCD CCR Project #
Collected By (print): Travis Martinez	Purchase Order # : Quote #:
Collected By (signature):	Turnaround Date Required:
	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply)

Pace Profile#	Lab Project Manager:
Pace Project Manager: betsy.mcdaniel@pacelabs.com	
Immediately Packed on Ice: [X] Yes [ ] No	
Field Filtered (if applicable): [ ] Yes [ ] No Analysis:	

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Water (WT), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Time	Composite End Date	Time	Res Cl	# of Ctns	Preservative Type **	Analyses: Metals App III/IV - see comments		Radium 226.228		Chloride, Fluoride, Sulfate, TDS							Lab Profile/Line:
										1		1									
BRGWC-29I	GW	G	10/16/2019	9:50				4		1		2		1							
BRGWC-47	GW	G	10/16/2019	11:35				6		1		4		1							Rad-1
BRGWC-50	GW	G	10/16/2019	13:25				4		1		2		1							
BRGWC-52I	GW	G	10/16/2019	14:55				4		1		2		1							
DUP-2	GW	G	10/16/2019	--				4		1		2		1							

Lab Sample Receipt Checklist:
Custody Seals Present/Intact Y N NA
Custody Signatures Present Y N NA
Collector Signature Present Y N NA
Bottles Intact Y N NA
Correct Bottles Y N NA
Sufficient Volume Y N NA
Samples Received on Ice Y N NA
VOA - Headspace Acceptable Y N NA
USDA Regulated Soils Y N NA
Samples in Holding Time Y N NA
Residual Chlorine Present Y N NA
Cl Strips:
Sample pH Acceptable Y N NA
pH Strips:
Sulfide Present Y N NA
Lead Acetate Strips:

LAB USE ONLY:
Lab Sample # / Comments:

(App III Metals): B, Ca, (App IV Metals): Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #:

Samples received via:
FEDEX UPS Client Courier Pace Courier

LAB Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: 8
Cooler 1 Temp Upon Receipt: 1 oC
Cooler 1 Therm Corr. Factor: ___oC
Cooler 1 Corrected Temp: ___oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Golder	10-17-19/0815		10/17/19 11
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

PACE LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: 1 of: 1

Sample Condition Upon Receipt

Pace Analytical

Client Name: GRAPowder Project # _____

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☑ Commercial ☐ Pace Other _____

Tracking #: _____

Optional
Proj. Due Date:
Proj. Name:

Custody Seal on Cooler/Box Present: ☑ yes ☐ no Seals intact: ☑ yes ☐ no

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other _____

Thermometer Used 83 Type of Ice: Wet Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 0.8 Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: 10/17/19 MP

Temp should be above freezing to 6°C

				Comments:
Chain of Custody Present:	☑Yes	☐No	☐N/A	1.
Chain of Custody Filled Out:	☑Yes	☐No	☐N/A	2.
Chain of Custody Relinquished:	☑Yes	☐No	☐N/A	3.
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☑Yes	☐No	☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes	☑No	☐N/A	6.
Rush Turn Around Time Requested:	☐Yes	☑No	☐N/A	7.
Sufficient Volume:	☑Yes	☐No	☐N/A	8.
Correct Containers Used:	☑Yes	☐No	☐N/A	9.
-Pace Containers Used:	☑Yes	☐No	☐N/A	
Containers Intact:	☑Yes	☐No	☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☑N/A	11.
Sample Labels match COC:	☑Yes	☐No	☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W				
All containers needing preservation have been checked.	☑Yes	☐No	☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes	☐No	☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes	☑No		Initial when completed / Lot # of added preservative
Samples checked for dechlorination:	☐Yes	☐No	☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☑N/A	15.
Trip Blank Present:	☐Yes	☐No	☑N/A	16.
Trip Blank Custody Seals Present	☐Yes	☐No	☑N/A	
Pace Trip Blank Lot # (if purchased): _____				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

3000 W28

Project Manager Review: _____ Date: _____

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

September 27, 2019

Joju Abraham
Georgia Power - Coal Combustion Residuals
2480 Maner Road
Atlanta, GA 30339

RE: Project: Plant Branch BCD
Pace Project No.: 2622596

Dear Joju Abraham:
Enclosed are the analytical results for sample(s) received by the laboratory on August 30, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

This report replaces the report issued on September 10, 2019. This report was revised to correct the DUP sample ID per consultant request. No other changes have been made to this report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Betsy McDaniel
betsy.mcdaniel@pacelabs.com
(770)734-4200
Project Manager

Enclosures

cc: Kristen Jurinko, Golder Associates Inc.
Julie Lehrman, Golder Associates Inc.
Dawn Prell, Golder Associates Inc.
Eric Rolle, Georgia Power - Coal Combustion Residuals
Rebecca Thornton, Pace Analytical Atlanta
Dominic Weatherhill, Georgia Power

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CERTIFICATIONS

Project: Plant Branch BCD
Pace Project No.: 2622596

Atlanta Certification IDs

110 Technology Parkway Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
Georgia DW Microbiology Certification #: 812
North Carolina Certification #: 381
South Carolina Certification #: 98011001
Virginia Certification #: 460204

Asheville Certification IDs

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

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SAMPLE SUMMARY

Project: Plant Branch BCD
Pace Project No.: 2622596

Lab ID	Sample ID	Matrix	Date Collected	Date Received
2622596001	**BRGWA-23S**	Water	08/29/19 15:05	08/30/19 08:00
2622596002	**BRGWC-50**	Water	08/29/19 10:55	08/30/19 08:00
2622596003	**BRGWC-52I**	Water	08/29/19 12:40	08/30/19 08:00
2622596004	**Dup-2**	Water	08/29/19 00:00	08/30/19 08:00

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SAMPLE ANALYTE COUNT

Project: Plant Branch BCD
Pace Project No.: 2622596

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
2622596001	**BRGWA-23S**	EPA 6020B	KLH	12	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	BRJ	1	PASI-A
2622596002	**BRGWC-50**	EPA 6020B	CSW, KLH	12	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	BRJ	1	PASI-A
2622596003	**BRGWC-52I**	EPA 6020B	KLH	12	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	BRJ	1	PASI-A
2622596004	**Dup-2**	EPA 6020B	CSW, KLH	12	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	BRJ	1	PASI-A

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ANALYTICAL RESULTS

Project: Plant Branch BCD
Pace Project No.: 2622596

Sample: BRGWA-23S **Lab ID: 2622596001** Collected: 08/29/19 15:05 Received: 08/30/19 08:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00027	1	09/04/19 14:00	09/06/19 14:58	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	09/04/19 14:00	09/06/19 14:58	7440-38-2	
Barium	**0.076**	mg/L	0.010	0.00049	1	09/04/19 14:00	09/06/19 14:58	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	09/04/19 14:00	09/06/19 14:58	7440-41-7	
Cadmium	ND	mg/L	0.0010	0.00011	1	09/04/19 14:00	09/06/19 14:58	7440-43-9	
Chromium	**0.0016J**	mg/L	0.010	0.00039	1	09/04/19 14:00	09/06/19 14:58	7440-47-3	
Cobalt	**0.0015J**	mg/L	0.010	0.00030	1	09/04/19 14:00	09/06/19 14:58	7440-48-4	
Lead	**0.000070J**	mg/L	0.0050	0.000046	1	09/04/19 14:00	09/06/19 14:58	7439-92-1	
Lithium	**0.0070J**	mg/L	0.050	0.00078	1	09/04/19 14:00	09/06/19 14:58	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00095	1	09/04/19 14:00	09/06/19 14:58	7439-98-7	
Selenium	**0.0023J**	mg/L	0.010	0.0013	1	09/04/19 14:00	09/06/19 14:58	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000052	1	09/04/19 14:00	09/06/19 14:58	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.00014	1	09/05/19 09:07	09/05/19 13:35	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993								
Fluoride	**0.084J**	mg/L	0.10	0.050	1		09/07/19 13:52	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant Branch BCD
Pace Project No.: 2622596

Sample: BRGWC-50 **Lab ID: 2622596002** Collected: 08/29/19 10:55 Received: 08/30/19 08:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	**0.00052J**	mg/L	0.0030	0.00027	1	09/04/19 14:00	09/06/19 15:21	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	09/04/19 14:00	09/06/19 15:21	7440-38-2	
Barium	**0.018**	mg/L	0.010	0.00049	1	09/04/19 14:00	09/06/19 15:21	7440-39-3	
Beryllium	**0.0029J**	mg/L	0.0030	0.000074	1	09/04/19 14:00	09/06/19 15:21	7440-41-7	
Cadmium	**0.0071**	mg/L	0.0010	0.00011	1	09/04/19 14:00	09/06/19 15:21	7440-43-9	
Chromium	ND	mg/L	0.010	0.00039	1	09/04/19 14:00	09/06/19 15:21	7440-47-3	
Cobalt	**1.3**	mg/L	0.050	0.0015	5	09/04/19 14:00	09/09/19 13:11	7440-48-4	
Lead	**0.000049J**	mg/L	0.0050	0.000046	1	09/04/19 14:00	09/06/19 15:21	7439-92-1	
Lithium	**0.039J**	mg/L	0.050	0.00078	1	09/04/19 14:00	09/06/19 15:21	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00095	1	09/04/19 14:00	09/06/19 15:21	7439-98-7	
Selenium	ND	mg/L	0.010	0.0013	1	09/04/19 14:00	09/06/19 15:21	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000052	1	09/04/19 14:00	09/06/19 15:21	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.00014	1	09/05/19 09:07	09/05/19 13:37	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993								
Fluoride	**0.41**	mg/L	0.10	0.050	1		09/07/19 14:07	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant Branch BCD
Pace Project No.: 2622596

Sample: BRGWC-52I **Lab ID: 2622596003** Collected: 08/29/19 12:40 Received: 08/30/19 08:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00027	1	09/04/19 14:00	09/06/19 15:27	7440-36-0	
Arsenic	**0.00067J**	mg/L	0.0050	0.00035	1	09/04/19 14:00	09/06/19 15:27	7440-38-2	
Barium	**0.017**	mg/L	0.010	0.00049	1	09/04/19 14:00	09/06/19 15:27	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	09/04/19 14:00	09/06/19 15:27	7440-41-7	
Cadmium	ND	mg/L	0.0010	0.00011	1	09/04/19 14:00	09/06/19 15:27	7440-43-9	
Chromium	ND	mg/L	0.010	0.00039	1	09/04/19 14:00	09/06/19 15:27	7440-47-3	
Cobalt	**0.00063J**	mg/L	0.010	0.00030	1	09/04/19 14:00	09/06/19 15:27	7440-48-4	
Lead	ND	mg/L	0.0050	0.000046	1	09/04/19 14:00	09/06/19 15:27	7439-92-1	
Lithium	**0.0052J**	mg/L	0.050	0.00078	1	09/04/19 14:00	09/06/19 15:27	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00095	1	09/04/19 14:00	09/06/19 15:27	7439-98-7	
Selenium	ND	mg/L	0.010	0.0013	1	09/04/19 14:00	09/06/19 15:27	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000052	1	09/04/19 14:00	09/06/19 15:27	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.00014	1	09/05/19 09:07	09/05/19 13:39	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993								
Fluoride	**0.087J**	mg/L	0.10	0.050	1		09/07/19 14:23	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant Branch BCD
Pace Project No.: 2622596

Sample: Dup-2 **Lab ID: 2622596004** Collected: 08/29/19 00:00 Received: 08/30/19 08:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00027	1	09/04/19 14:00	09/06/19 15:33	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	09/04/19 14:00	09/06/19 15:33	7440-38-2	
Barium	**0.017**	mg/L	0.010	0.00049	1	09/04/19 14:00	09/06/19 15:33	7440-39-3	
Beryllium	**0.0030J**	mg/L	0.0030	0.000074	1	09/04/19 14:00	09/06/19 15:33	7440-41-7	
Cadmium	**0.0073**	mg/L	0.0025	0.00011	1	09/04/19 14:00	09/06/19 15:33	7440-43-9	
Chromium	ND	mg/L	0.010	0.00039	1	09/04/19 14:00	09/06/19 15:33	7440-47-3	
Cobalt	**1.3**	mg/L	0.012	0.0015	5	09/04/19 14:00	09/09/19 13:17	7440-48-4	
Lead	ND	mg/L	0.0050	0.000046	1	09/04/19 14:00	09/06/19 15:33	7439-92-1	
Lithium	**0.038**	mg/L	0.010	0.00078	1	09/04/19 14:00	09/06/19 15:33	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00095	1	09/04/19 14:00	09/06/19 15:33	7439-98-7	
Selenium	ND	mg/L	0.010	0.0013	1	09/04/19 14:00	09/06/19 15:33	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000052	1	09/04/19 14:00	09/06/19 15:33	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.00014	1	09/05/19 09:07	09/05/19 13:42	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993								
Fluoride	**0.37**	mg/L	0.10	0.050	1		09/07/19 14:38	16984-48-8	

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QUALITY CONTROL DATA

Project: Plant Branch BCD
Pace Project No.: 2622596

QC Batch: 34720 Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
Associated Lab Samples: 2622596001, 2622596002, 2622596003, 2622596004

METHOD BLANK: 156270 Matrix: Water
Associated Lab Samples: 2622596001, 2622596002, 2622596003, 2622596004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00050	0.00014	09/05/19 12:57	

LABORATORY CONTROL SAMPLE: 156271

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0025	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 156272 156273

Parameter	Units	2622587001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0023	0.0023	91	92	75-125	2	20	

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QUALITY CONTROL DATA

Project: Plant Branch BCD
Pace Project No.: 2622596

QC Batch: 34718 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020B MET
Associated Lab Samples: 2622596001, 2622596002, 2622596003, 2622596004

METHOD BLANK: 156264 Matrix: Water
Associated Lab Samples: 2622596001, 2622596002, 2622596003, 2622596004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00027	09/06/19 14:47	
Arsenic	mg/L	ND	0.0050	0.00035	09/06/19 14:47	
Barium	mg/L	ND	0.010	0.00049	09/06/19 14:47	
Beryllium	mg/L	ND	0.0030	0.000074	09/06/19 14:47	
Cadmium	mg/L	ND	0.0010	0.00011	09/06/19 14:47	
Chromium	mg/L	ND	0.010	0.00039	09/06/19 14:47	
Cobalt	mg/L	ND	0.010	0.00030	09/06/19 14:47	
Lead	mg/L	ND	0.0050	0.000046	09/06/19 14:47	
Lithium	mg/L	ND	0.050	0.00078	09/06/19 14:47	
Molybdenum	mg/L	ND	0.010	0.00095	09/06/19 14:47	
Selenium	mg/L	ND	0.010	0.0013	09/06/19 14:47	
Thallium	mg/L	ND	0.0010	0.000052	09/06/19 14:47	

LABORATORY CONTROL SAMPLE: 156265

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	106	80-120	
Arsenic	mg/L	0.1	0.10	101	80-120	
Barium	mg/L	0.1	0.10	101	80-120	
Beryllium	mg/L	0.1	0.10	101	80-120	
Cadmium	mg/L	0.1	0.10	101	80-120	
Chromium	mg/L	0.1	0.099	99	80-120	
Cobalt	mg/L	0.1	0.098	98	80-120	
Lead	mg/L	0.1	0.097	97	80-120	
Lithium	mg/L	0.1	0.10	101	80-120	
Molybdenum	mg/L	0.1	0.10	102	80-120	
Selenium	mg/L	0.1	0.098	98	80-120	
Thallium	mg/L	0.1	0.099	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 156266 156267

Parameter	Units	2622596001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.11	0.11	107	106	75-125	2	20	
Arsenic	mg/L	ND	0.1	0.1	0.10	0.098	101	98	75-125	4	20	
Barium	mg/L	0.076	0.1	0.1	0.18	0.17	102	98	75-125	2	20	
Beryllium	mg/L	ND	0.1	0.1	0.099	0.098	99	98	75-125	1	20	
Cadmium	mg/L	ND	0.1	0.1	0.10	0.099	101	98	75-125	3	20	

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QUALITY CONTROL DATA

Project: Plant Branch BCD
Pace Project No.: 2622596

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 156266 156267

Parameter	Units	2622596001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chromium	mg/L	0.0016J	0.1	0.1	0.10	0.10	101	101	75-125	0	20	
Cobalt	mg/L	0.0015J	0.1	0.1	0.10	0.10	100	100	75-125	1	20	
Lead	mg/L	0.000070J	0.1	0.1	0.10	0.10	101	100	75-125	0	20	
Lithium	mg/L	0.0070J	0.1	0.1	0.11	0.10	98	97	75-125	2	20	
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	102	102	75-125	0	20	
Selenium	mg/L	0.0023J	0.1	0.1	0.098	0.099	96	97	75-125	1	20	
Thallium	mg/L	ND	0.1	0.1	0.10	0.10	101	100	75-125	1	20	

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QUALITY CONTROL DATA

Project: Plant Branch BCD
Pace Project No.: 2622596

QC Batch: 496582 Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 2622596001, 2622596002, 2622596003, 2622596004

METHOD BLANK: 2674477 Matrix: Water
Associated Lab Samples: 2622596001, 2622596002, 2622596003, 2622596004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Fluoride	mg/L	ND	0.10	0.050	09/07/19 12:19	

LABORATORY CONTROL SAMPLE: 2674478

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluoride	mg/L	2.5	2.7	109	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2674479 2674480

Parameter	Units	2622657001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Fluoride	mg/L	ND	2.5	2.5	ND	ND	0	0	90-110		10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2674481 2674482

Parameter	Units	2622587005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Fluoride	mg/L	ND	2.5	2.5	2.7	2.8	108	108	90-110	0	10	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Plant Branch BCD
Pace Project No.: 2622596

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-A	Pace Analytical Services - Asheville
PASI-GA	Pace Analytical Services - Atlanta, GA

ANALYTE QUALIFIERS

M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Branch BCD
Pace Project No.: 2622596

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2622596001	**BRGWA-23S**	EPA 3005A	34718	EPA 6020B	34727
2622596002	**BRGWC-50**	EPA 3005A	34718	EPA 6020B	34727
2622596003	**BRGWC-52I**	EPA 3005A	34718	EPA 6020B	34727
2622596004	**Dup-2**	EPA 3005A	34718	EPA 6020B	34727
2622596001	**BRGWA-23S**	EPA 7470A	34720	EPA 7470A	34792
2622596002	**BRGWC-50**	EPA 7470A	34720	EPA 7470A	34792
2622596003	**BRGWC-52I**	EPA 7470A	34720	EPA 7470A	34792
2622596004	**Dup-2**	EPA 7470A	34720	EPA 7470A	34792
2622596001	**BRGWA-23S**	EPA 300.0 Rev 2.1 1993	496582		
2622596002	**BRGWC-50**	EPA 300.0 Rev 2.1 1993	496582		
2622596003	**BRGWC-52I**	EPA 300.0 Rev 2.1 1993	496582		
2622596004	**Dup-2**	EPA 300.0 Rev 2.1 1993	496582		

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CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields

WO# : 2622596

2622596

WO# : 2622596

PM: BM Due Date: 09/09/19

CLIENT: GAPower-CCR

Company: Georgia Power - Coal Combustion Residuals	Billing Information:
Address: 2480 Maner Road Atlanta, GA 30339	
Report To: Joju Abraham	Email To: scsinvoices@southernco.com
Copy To: Golder	Site Collection Info/Address: Plant Branch
phone: (404) 506-7239 Email: jabraham@southernco.com	State: Georgia City: Milledgeville Time Zone Collected: [ ]PT [ ]MT [ ]CT [X]ET
Phone: (404) 506-7239 Email: jabraham@southernco.com	Project Name: Plant Branch BCD Project # CCR
Collected By (print): Devin Thomas	Purchase Order # : SCS10382775 Quote #:
Collected By (signature):	Turnaround Date Required:
	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply)

Pace Profile# 326.11.2

Pace Project Manager: betsy.mcdaniel@pacelabs.com

Immediately Packed on Ice: [X] Yes [ ] No

Field Filtered (if applicable): [ ] Yes [ ] No

Analysis: _____

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Water (WT), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	Fluoride by 300.0	Metals app IV	Radium 226.228
BRGWA-23S	GW	G			8/29/2019	1505		4	1	1	2
BRGWC-50	GW	G			8/29/2019	1055		4	1	1	2
BRGWC-52I	GW	G			8/29/2019	1240		4	1	1	2
Dup-3	GW	G			8/29/2019	—		4	1	1	2

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

Analyses

Lab Profile/Line:

Lab Sample Receipt Checklist:
Custody Seals Present/Intact Y N NA
Custody Signatures Present Y N NA
Collector Signature Present Y N NA
Bottles Intact Y N NA
Correct Bottles Y N NA
Sufficient Volume Y N NA
Samples Received on Ice Y N NA
VOA - Headspace Acceptable Y N NA
USDA Regulated Soils Y N NA
Samples in Holding Time Y N NA
Residual Chlorine Present Y N NA
Cl Strips:
Sample pH Acceptable Y N NA
pH Strips:
Sulfide Present Y N NA
Lead Acetate Strips:

LAB USE ONLY:
Lab Sample # / Comments:

Customer Remarks / Special Conditions / Possible Hazards:
Metals : Hg, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl

Type of Ice Used: Wet Blue Dry None

Packing Material Used: N/A

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #:

Samples received via: FEDEX UPS Client Courier Pace Courier

LAB Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#:
Cooler 1 Temp Upon Receipt: 1.0
Cooler 1 Therm Corr. Factor: ____ oC
Cooler 1 Corrected Temp: ____ oC
Comments:

Relinquished by/Company: (Signature)	Date/Time: 8-30-19/0800	Received by/Company: (Signature)	Date/Time: 8/30/19 0800
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: Y N NA
HCl MeOH TSP Other

Non Conformance(s): YES / NO

Page: ____ of: ____

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March 31, 2019

Joju Abraham
Georgia Power - Coal Combustion Residuals
2480 Maner Road
Atlanta, GA 30339

RE: Project: Plant Branch Pond BCD
Pace Project No.: 2616405

Dear Joju Abraham:
Enclosed are the analytical results for sample(s) received by the laboratory on March 21, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Betsy McDaniel
betsy.mcdaniel@pacelabs.com
(770)734-4200
Project Manager

Enclosures

cc: Kristen Jurinko, Golder Associates Inc.
Julie Lehrman, Golder Associates Inc.
Dawn Prell, Golder Associates Inc.
Eric Rolle, Georgia Power - Coal Combustion Residuals
Rebecca Thornton, Pace Analytical Atlanta

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CERTIFICATIONS

Project: Plant Branch Pond BCD
Pace Project No.: 2616405

Atlanta Certification IDs

110 Technology Parkway Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
Georgia DW Microbiology Certification #: 812
North Carolina Certification #: 381
South Carolina Certification #: 98011001
Virginia Certification #: 460204

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SAMPLE SUMMARY

Project: Plant Branch Pond BCD
Pace Project No.: 2616405

Lab ID	Sample ID	Matrix	Date Collected	Date Received
2616405001	**BRGWC-25I**	Water	03/20/19 16:50	03/21/19 10:35
2616405002	**BRGWC-29I**	Water	03/20/19 15:25	03/21/19 10:35
2616405003	**BRGWC-30I**	Water	03/20/19 13:05	03/21/19 10:35
2616405004	**BRGWC-32S**	Water	03/20/19 14:05	03/21/19 10:35
2616405005	**BRGWC-45**	Water	03/20/19 12:40	03/21/19 10:35
2616405006	**BRGWC-50**	Water	03/20/19 13:35	03/21/19 10:35
2616405007	**BRGWC-52I**	Water	03/20/19 10:20	03/21/19 10:35
2616405008	**Dup-2**	Water	03/20/19 00:00	03/21/19 10:35
2616405009	**Dup-3**	Water	03/20/19 00:00	03/21/19 10:35
2616405010	**FB-3**	Water	03/20/19 17:15	03/21/19 10:35
2616405011	**EB-2**	Water	03/20/19 13:30	03/21/19 10:35
2616405012	**EB-3**	Water	03/20/19 13:00	03/21/19 10:35

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SAMPLE ANALYTE COUNT

Project: Plant Branch Pond BCD
Pace Project No.: 2616405

Lab ID	Sample ID	Method	Analysts	Analytes Reported
2616405001	**BRGWC-25I**	EPA 6020B	CSW	2
		SM 2540C	RLC	1
		EPA 300.0	MWB	3
2616405002	**BRGWC-29I**	EPA 6020B	CSW	2
		SM 2540C	RLC	1
		EPA 300.0	MWB	3
2616405003	**BRGWC-30I**	EPA 6020B	CSW	2
		SM 2540C	RLC	1
		EPA 300.0	MWB	3
2616405004	**BRGWC-32S**	EPA 6020B	CSW	2
		SM 2540C	RLC	1
		EPA 300.0	MWB	3
2616405005	**BRGWC-45**	EPA 6020B	CSW	2
		SM 2540C	RLC	1
		EPA 300.0	MWB	3
2616405006	**BRGWC-50**	EPA 6020B	CSW	2
		SM 2540C	RLC	1
		EPA 300.0	MWB	3
2616405007	**BRGWC-52I**	EPA 6020B	CSW	2
		SM 2540C	RLC	1
		EPA 300.0	MWB	3
2616405008	**Dup-2**	EPA 6020B	CSW	2
		SM 2540C	RLC	1
		EPA 300.0	MWB	3
2616405009	**Dup-3**	EPA 6020B	CSW	2
		SM 2540C	RLC	1
		EPA 300.0	MWB	3
2616405010	**FB-3**	EPA 6020B	CSW	2
		SM 2540C	RLC	1
		EPA 300.0	MWB	3
2616405011	**EB-2**	EPA 6020B	CSW	2
		SM 2540C	RLC	1
		EPA 300.0	MWB	3
2616405012	**EB-3**	EPA 6020B	CSW	2
		SM 2540C	RLC	1
		EPA 300.0	MWB	3

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ANALYTICAL RESULTS

Project: Plant Branch Pond BCD
Pace Project No.: 2616405

Sample: BRGWC-25I **Lab ID: 2616405001** Collected: 03/20/19 16:50 Received: 03/21/19 10:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Boron	**1.5**	mg/L	0.040	0.0039	1	03/25/19 18:21	03/26/19 18:14	7440-42-8	
Calcium	**54.2**	mg/L	25.0	0.69	50	03/25/19 18:21	03/26/19 18:19	7440-70-2	M6
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**412**	mg/L	25.0	10.0	1		03/22/19 13:11		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**6.4**	mg/L	0.25	0.024	1		03/26/19 06:28	16887-00-6	
Fluoride	**0.18J**	mg/L	0.30	0.029	1		03/26/19 06:28	16984-48-8	
Sulfate	**240**	mg/L	10.0	0.17	10		03/27/19 21:06	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Branch Pond BCD
Pace Project No.: 2616405

Sample: BRGWC-29I **Lab ID: 2616405002** Collected: 03/20/19 15:25 Received: 03/21/19 10:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Boron	**1.5**	mg/L	0.040	0.0039	1	03/25/19 18:21	03/26/19 19:05	7440-42-8	
Calcium	**55.4**	mg/L	25.0	0.69	50	03/25/19 18:21	03/26/19 19:11	7440-70-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**391**	mg/L	25.0	10.0	1		03/22/19 13:11		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**5.6**	mg/L	0.25	0.024	1		03/26/19 07:14	16887-00-6	
Fluoride	**0.091J**	mg/L	0.30	0.029	1		03/26/19 07:14	16984-48-8	
Sulfate	**278**	mg/L	20.0	0.34	20		03/27/19 21:28	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Branch Pond BCD
Pace Project No.: 2616405

Sample: BRGWC-30I **Lab ID: 2616405003** Collected: 03/20/19 13:05 Received: 03/21/19 10:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Boron	**1.7**	mg/L	0.040	0.0039	1	03/25/19 18:21	03/26/19 19:17	7440-42-8	
Calcium	**141**	mg/L	25.0	0.69	50	03/25/19 18:21	03/26/19 19:22	7440-70-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**885**	mg/L	25.0	10.0	1		03/22/19 13:11		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**5.8**	mg/L	0.25	0.024	1		03/26/19 07:37	16887-00-6	
Fluoride	**0.31**	mg/L	0.30	0.029	1		03/26/19 07:37	16984-48-8	
Sulfate	**623**	mg/L	20.0	0.34	20		03/27/19 21:51	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Branch Pond BCD
Pace Project No.: 2616405

Sample: BRGWC-32S **Lab ID: 2616405004** Collected: 03/20/19 14:05 Received: 03/21/19 10:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Boron	**1.4**	mg/L	0.040	0.0039	1	03/25/19 18:21	03/26/19 19:28	7440-42-8	
Calcium	**52.8**	mg/L	25.0	0.69	50	03/25/19 18:21	03/26/19 19:34	7440-70-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**564**	mg/L	25.0	10.0	1		03/22/19 13:10		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**7.3**	mg/L	0.25	0.024	1		03/26/19 08:00	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		03/26/19 08:00	16984-48-8	
Sulfate	**409**	mg/L	20.0	0.34	20		03/27/19 22:14	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Branch Pond BCD
Pace Project No.: 2616405

Sample: BRGWC-45 **Lab ID: 2616405005** Collected: 03/20/19 12:40 Received: 03/21/19 10:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Boron	**0.043**	mg/L	0.040	0.0039	1	03/25/19 18:21	03/26/19 19:40	7440-42-8	
Calcium	**31.2**	mg/L	25.0	0.69	50	03/25/19 18:21	03/26/19 19:45	7440-70-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**302**	mg/L	25.0	10.0	1		03/22/19 13:09		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**27.7**	mg/L	0.25	0.024	1		03/26/19 08:23	16887-00-6	
Fluoride	**0.066J**	mg/L	0.30	0.029	1		03/26/19 08:23	16984-48-8	
Sulfate	**127**	mg/L	10.0	0.17	10		03/27/19 22:37	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Branch Pond BCD
Pace Project No.: 2616405

Sample: BRGWC-50 **Lab ID: 2616405006** Collected: 03/20/19 13:35 Received: 03/21/19 10:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Boron	**0.34**	mg/L	0.040	0.0039	1	03/25/19 18:21	03/26/19 19:51	7440-42-8	
Calcium	**222**	mg/L	25.0	0.69	50	03/25/19 18:21	03/26/19 19:57	7440-70-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**2280**	mg/L	25.0	10.0	1		03/22/19 13:09		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**23.5**	mg/L	0.25	0.024	1		03/26/19 08:46	16887-00-6	
Fluoride	**0.21J**	mg/L	0.30	0.029	1		03/26/19 08:46	16984-48-8	
Sulfate	**1740**	mg/L	50.0	0.85	50		03/27/19 23:00	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Branch Pond BCD
Pace Project No.: 2616405

Sample: BRGWC-52I **Lab ID: 2616405007** Collected: 03/20/19 10:20 Received: 03/21/19 10:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Boron	**1.6**	mg/L	0.040	0.0039	1	03/25/19 18:21	03/26/19 20:14	7440-42-8	
Calcium	**40.3**	mg/L	25.0	0.69	50	03/25/19 18:21	03/26/19 20:20	7440-70-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**366**	mg/L	25.0	10.0	1		03/22/19 13:09		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**6.7**	mg/L	0.25	0.024	1		03/26/19 09:08	16887-00-6	
Fluoride	**0.14J**	mg/L	0.30	0.029	1		03/26/19 09:08	16984-48-8	
Sulfate	**180**	mg/L	10.0	0.17	10		03/27/19 23:23	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Branch Pond BCD
Pace Project No.: 2616405

Sample: Dup-2 **Lab ID: 2616405008** Collected: 03/20/19 00:00 Received: 03/21/19 10:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Boron	**1.6**	mg/L	0.040	0.0039	1	03/25/19 18:21	03/26/19 20:25	7440-42-8	
Calcium	**41.4**	mg/L	25.0	0.69	50	03/25/19 18:21	03/26/19 20:31	7440-70-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**354**	mg/L	25.0	10.0	1		03/22/19 13:09		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**6.7**	mg/L	0.25	0.024	1		03/26/19 09:31	16887-00-6	
Fluoride	**0.13J**	mg/L	0.30	0.029	1		03/26/19 09:31	16984-48-8	
Sulfate	**193**	mg/L	10.0	0.17	10		03/27/19 23:46	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Branch Pond BCD
Pace Project No.: 2616405

Sample: Dup-3 **Lab ID: 2616405009** Collected: 03/20/19 00:00 Received: 03/21/19 10:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Boron	**1.5**	mg/L	0.040	0.0039	1	03/25/19 18:21	03/26/19 20:37	7440-42-8	
Calcium	**53.7**	mg/L	25.0	0.69	50	03/25/19 18:21	03/26/19 20:43	7440-70-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**409**	mg/L	25.0	10.0	1		03/22/19 13:09		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**6.2**	mg/L	0.25	0.024	1		03/26/19 11:26	16887-00-6	
Fluoride	**0.16J**	mg/L	0.30	0.029	1		03/26/19 11:26	16984-48-8	
Sulfate	**230**	mg/L	10.0	0.17	10		03/28/19 01:17	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Branch Pond BCD
Pace Project No.: 2616405

Sample: FB-3 **Lab ID: 2616405010** Collected: 03/20/19 17:15 Received: 03/21/19 10:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Boron	ND	mg/L	0.040	0.0039	1	03/25/19 18:21	03/26/19 20:48	7440-42-8	
Calcium	ND	mg/L	0.50	0.014	1	03/25/19 18:21	03/26/19 20:48	7440-70-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**13.0J**	mg/L	25.0	10.0	1		03/22/19 13:09		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**0.31**	mg/L	0.25	0.024	1		03/26/19 11:49	16887-00-6	B
Fluoride	ND	mg/L	0.30	0.029	1		03/26/19 11:49	16984-48-8	
Sulfate	**0.11J**	mg/L	1.0	0.017	1		03/26/19 11:49	14808-79-8	B

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ANALYTICAL RESULTS

Project: Plant Branch Pond BCD
Pace Project No.: 2616405

Sample: EB-2 **Lab ID: 2616405011** Collected: 03/20/19 13:30 Received: 03/21/19 10:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Boron	ND	mg/L	0.040	0.0039	1	03/25/19 18:21	03/26/19 20:54	7440-42-8	
Calcium	ND	mg/L	0.50	0.014	1	03/25/19 18:21	03/26/19 20:54	7440-70-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**35.0**	mg/L	25.0	10.0	1		03/26/19 22:18		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**0.31**	mg/L	0.25	0.024	1		03/26/19 12:11	16887-00-6	B
Fluoride	ND	mg/L	0.30	0.029	1		03/26/19 12:11	16984-48-8	
Sulfate	ND	mg/L	1.0	0.017	1		03/26/19 12:11	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Branch Pond BCD
Pace Project No.: 2616405

Sample: EB-3 **Lab ID: 2616405012** Collected: 03/20/19 13:00 Received: 03/21/19 10:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Boron	ND	mg/L	0.040	0.0039	1	03/25/19 18:21	03/26/19 21:00	7440-42-8	
Calcium	ND	mg/L	0.50	0.014	1	03/25/19 18:21	03/26/19 21:00	7440-70-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**13.0J**	mg/L	25.0	10.0	1		03/26/19 22:18		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**0.094J**	mg/L	0.25	0.024	1		03/27/19 21:08	16887-00-6	B
Fluoride	ND	mg/L	0.30	0.029	1		03/27/19 21:08	16984-48-8	
Sulfate	ND	mg/L	1.0	0.017	1		03/27/19 21:08	14808-79-8	M1

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QUALITY CONTROL DATA

Project: Plant Branch Pond BCD
Pace Project No.: 2616405

QC Batch: 25068 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020B MET
Associated Lab Samples: 2616405001, 2616405002, 2616405003, 2616405004, 2616405005, 2616405006, 2616405007, 2616405008, 2616405009, 2616405010, 2616405011, 2616405012

METHOD BLANK: 113023 Matrix: Water
Associated Lab Samples: 2616405001, 2616405002, 2616405003, 2616405004, 2616405005, 2616405006, 2616405007, 2616405008, 2616405009, 2616405010, 2616405011, 2616405012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Boron	mg/L	ND	0.040	0.0039	03/26/19 18:02	
Calcium	mg/L	ND	0.50	0.014	03/26/19 18:02	

LABORATORY CONTROL SAMPLE: 113024

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	1	0.99	99	80-120	
Calcium	mg/L	1	0.97	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 113025 113026

Parameter	Units	2616405001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	mg/L	1.5	1	1	2.5	2.5	93	98	75-125	2	20	
Calcium	mg/L	54.2	1	1	54.8	53.9	60	-25	75-125	2	20	M6

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QUALITY CONTROL DATA

Project: Plant Branch Pond BCD
Pace Project No.: 2616405

QC Batch: 24911 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 2616405001, 2616405002, 2616405003, 2616405004, 2616405005, 2616405006, 2616405007, 2616405008, 2616405009, 2616405010

LABORATORY CONTROL SAMPLE: 112288

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	395	99	84-108	

SAMPLE DUPLICATE: 112289

Parameter	Units	2616371001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	68.0	76.0	11	10	D6

SAMPLE DUPLICATE: 112290

Parameter	Units	2616405001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	412	386	7	10	

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QUALITY CONTROL DATA

Project: Plant Branch Pond BCD
Pace Project No.: 2616405

QC Batch: 25049
QC Batch Method: SM 2540C
Analysis Method: SM 2540C
Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 2616405011, 2616405012

LABORATORY CONTROL SAMPLE: 112956

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	405	101	84-108	

SAMPLE DUPLICATE: 112957

Parameter	Units	2616510001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	35.0	36.0	3	10	

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QUALITY CONTROL DATA

Project: Plant Branch Pond BCD
Pace Project No.: 2616405

QC Batch: 25012 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 2616405001, 2616405002, 2616405003, 2616405004, 2616405005, 2616405006, 2616405007, 2616405008, 2616405009, 2616405010, 2616405011

METHOD BLANK: 112819 Matrix: Water
Associated Lab Samples: 2616405001, 2616405002, 2616405003, 2616405004, 2616405005, 2616405006, 2616405007, 2616405008, 2616405009, 2616405010, 2616405011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	0.31	0.25	0.024	03/26/19 00:00	
Fluoride	mg/L	ND	0.30	0.029	03/26/19 00:00	
Sulfate	mg/L	0.10J	1.0	0.017	03/26/19 00:00	

LABORATORY CONTROL SAMPLE: 112820

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	10	10.3	103	90-110	
Fluoride	mg/L	10	10.2	102	90-110	
Sulfate	mg/L	10	10.8	108	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 112821 112822

Parameter	Units	2616371001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	2.0	10	10	12.2	12.2	102	102	90-110	0	15	
Fluoride	mg/L	0.037J	10	10	10.4	10.4	103	104	90-110	0	15	
Sulfate	mg/L	0.78J	10	10	11.8	11.8	110	110	90-110	0	15	

MATRIX SPIKE SAMPLE: 112823

Parameter	Units	2616371002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	2.5	10	12.2	97	90-110	
Fluoride	mg/L	0.066J	10	10.0	100	90-110	
Sulfate	mg/L	6.0	10	16.2	101	90-110	

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QUALITY CONTROL DATA

Project: Plant Branch Pond BCD
Pace Project No.: 2616405

QC Batch: 25289 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 2616405012

METHOD BLANK: 113957 Matrix: Water
Associated Lab Samples: 2616405012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	0.062J	0.25	0.024	03/27/19 20:23	
Fluoride	mg/L	ND	0.30	0.029	03/27/19 20:23	
Sulfate	mg/L	ND	1.0	0.017	03/27/19 20:23	

LABORATORY CONTROL SAMPLE: 113958

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	10	10.3	103	90-110	
Fluoride	mg/L	10	10.1	101	90-110	
Sulfate	mg/L	10	10.7	107	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 113959 113960

Parameter	Units	2616405012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	0.094J	10	10	9.8	9.8	98	97	90-110	0	15	
Fluoride	mg/L	ND	10	10	9.4	9.5	94	95	90-110	1	15	
Sulfate	mg/L	ND	10	10	8.9	8.9	89	89	90-110	0	15	M1

MATRIX SPIKE SAMPLE: 113961

Parameter	Units	2616407006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	0.36	10	9.8	94	90-110	
Fluoride	mg/L	ND	10	9.9	99	90-110	
Sulfate	mg/L	0.91J	10	8.6	77	90-110	M1

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QUALIFIERS

Project: Plant Branch Pond BCD
Pace Project No.: 2616405

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

B	Analyte was detected in the associated method blank.
D6	The precision between the sample and sample duplicate exceeded laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
M6	Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Branch Pond BCD
Pace Project No.: 2616405

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2616405001	**BRGWC-25I**	EPA 3005A	25068	EPA 6020B	25105
2616405002	**BRGWC-29I**	EPA 3005A	25068	EPA 6020B	25105
2616405003	**BRGWC-30I**	EPA 3005A	25068	EPA 6020B	25105
2616405004	**BRGWC-32S**	EPA 3005A	25068	EPA 6020B	25105
2616405005	**BRGWC-45**	EPA 3005A	25068	EPA 6020B	25105
2616405006	**BRGWC-50**	EPA 3005A	25068	EPA 6020B	25105
2616405007	**BRGWC-52I**	EPA 3005A	25068	EPA 6020B	25105
2616405008	**Dup-2**	EPA 3005A	25068	EPA 6020B	25105
2616405009	**Dup-3**	EPA 3005A	25068	EPA 6020B	25105
2616405010	**FB-3**	EPA 3005A	25068	EPA 6020B	25105
2616405011	**EB-2**	EPA 3005A	25068	EPA 6020B	25105
2616405012	**EB-3**	EPA 3005A	25068	EPA 6020B	25105
2616405001	**BRGWC-25I**	SM 2540C	24911		
2616405002	**BRGWC-29I**	SM 2540C	24911		
2616405003	**BRGWC-30I**	SM 2540C	24911		
2616405004	**BRGWC-32S**	SM 2540C	24911		
2616405005	**BRGWC-45**	SM 2540C	24911		
2616405006	**BRGWC-50**	SM 2540C	24911		
2616405007	**BRGWC-52I**	SM 2540C	24911		
2616405008	**Dup-2**	SM 2540C	24911		
2616405009	**Dup-3**	SM 2540C	24911		
2616405010	**FB-3**	SM 2540C	24911		
2616405011	**EB-2**	SM 2540C	25049		
2616405012	**EB-3**	SM 2540C	25049		
2616405001	**BRGWC-25I**	EPA 300.0	25012		
2616405002	**BRGWC-29I**	EPA 300.0	25012		
2616405003	**BRGWC-30I**	EPA 300.0	25012		
2616405004	**BRGWC-32S**	EPA 300.0	25012		
2616405005	**BRGWC-45**	EPA 300.0	25012		
2616405006	**BRGWC-50**	EPA 300.0	25012		
2616405007	**BRGWC-52I**	EPA 300.0	25012		
2616405008	**Dup-2**	EPA 300.0	25012		
2616405009	**Dup-3**	EPA 300.0	25012		
2616405010	**FB-3**	EPA 300.0	25012		
2616405011	**EB-2**	EPA 300.0	25012		
2616405012	**EB-3**	EPA 300.0	25289		

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CHAIN OF CUSTODY RECORD

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(770) 734-4200 : FAX (770) 734-4201 : www.asi-lab.com

CLIENT NAME: Georgia Power

CLIENT ADDRESS/PHONE NUMBER/FAX NUMBER:
241 Ralph McGill Blvd SE B10185
Atlanta, GA 30308
404-506-7239

REPORT TO: Dawn Prell (Dawn_Prell@golder.com)
CC: rachel_kirkman@golder.com

REQUESTED COMPLETION DATE: Standard TAT
PO #: laburch@southernco.com

PROJECT NAME/STATE: Plant Branch

PROJECT #: Pond BCD

ANALYSIS REQUESTED

Collection DATE	Collection TIME	MATRIX CODE*	COMP	GRAB	SAMPLE IDENTIFICATION	# of CONTAINERS		Metals App. III (Boron & Calcium) (EPA 6020)	Cl, F, SO4 & TDS (EPA 300.0 & SM 2540C)								LAB ID NUMBER
CONTAINER TYPE:								P	P								
PRESERVATION:								3&7	7								
03/20/19	1650	GW		X	BRGWC-25I	2		X	X								
03/20/19	1525	GW		X	BRGWC-29I	2		X	X								
03/20/19	1305	GW		X	BRGWC-30I	2		X	X								
03/20/19	1405	GW		X	BRGWC-32S	2		X	X								
03/20/19	1240	GW		X	BRGWC-45	2		X	X								
03/20/19	1335	GW		X	BRGWC-50	2		X	X								
03/20/19	1020	GW		X	BRGWC-52I	2		X	X								
03/20/19	–	GW		X	DUP-2	2		X	X								
03/20/19	–	GW		X	DUP-3	2		X	X								
03/20/19	1715	W		X	FB-3	2		X	X								
03/20/19	1330	W		X	EB-2	2		X	X								
03/20/19	1300	W		X	EB-3	2		X	X								

CONTAINER TYPE / PRESERVATION

CONTAINER TYPE	PRESERVATION
P - PLASTIC	1 - HCl, ≤6°C
A - AMBER GLASS	2 - H_2SO_4, ≤6°C
G - CLEAR GLASS	3 - HNO_3
V - VOA VIAL	4 - NaOH, ≤6°C
S - STERILE	5 - NaOH/ZnAc, ≤6°C
O - OTHER	6 - $Na_2S_2O_3$, ≤6°C
	7 - ≤6°C not frozen

*MATRIX CODES:

DW - DRINKING WATER	S - SOIL
WW - WASTEWATER	SL - SLUDGE
GW - GROUNDWATER	SD - SOLID
SW - SURFACE WATER	A - AIR
ST - STORM WATER	L - LIQUID
W - WATER	P - PRODUCT

REMARKS/ADDITIONAL INFORMATION

WO# : 2616405

2616405

SAMPLED BY AND TITLE: C. Tidwell / V. Mwangi
DATE/TIME: 3-20-19 | 17:30
RELINQUISHED BY:
DATE/TIME: 3-21-19 @ 10:35

RECEIVED BY:
DATE/TIME:
RELINQUISHED BY:
DATE/TIME:

RECEIVED BY LAB:
DATE/TIME: 3/21/19 1035
pH checked: Yes No NA
Temperature: Min: 5.3°C Max
SAMPLE SHIPPED VIA: UPS FED-EX USPS COURIER CLIENT OTHER FS
Custody Seal: Intact Broken Not Present
# of Coolers
Cooler ID:

FOR LAB USE ONLY
LAB #:
Entered into LIMS:
Tracking #:

Sample Condition Upon Receipt

Pace Analytical

Client Name: GA Power

Project #

WO#: 2616405

PM: BM Due Date: 03/28/19

CLIENT: GAPower-CCR

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Commercial ☐ Pace Other

Tracking #:

Custody Seal on Cooler/Box Present: ☑ yes ☐ no Seals intact: ☑ yes

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Thermometer Used 83 Type of Ice: Wet Blue None

☐ Samples on ice, cooling process has begun

Cooler Temperature 5.3 Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: 3/21/19 MP

Temp should be above freezing to 6°C

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☑No	Initial when completed: Lot # of added preservative:
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	15.
Trip Blank Present:	☐Yes ☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: **Date:**

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

January 24, 2019

Joju Abraham
Georgia Power - Coal Combustion Residuals
2480 Maner Road
Atlanta, GA 30339

RE: Project: Plant Branch
Pace Project No.: 2613846

Dear Joju Abraham:
Enclosed are the analytical results for sample(s) received by the laboratory on January 17, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Betsy McDaniel
betsy.mcdaniel@pacelabs.com
(770)734-4200
Project Manager

Enclosures

cc: Kristen Jurinko, Golder Associates Inc.
Julie Lehrman, Golder Associates Inc.
Maria Padilla, Georgia Power
Dawn Prell, Golder Associates Inc.
Eric Rolle, Georgia Power - Coal Combustion Residuals
Rebecca Thornton, Pace Analytical Atlanta

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CERTIFICATIONS

Project: Plant Branch
Pace Project No.: 2613846

Atlanta Certification IDs

110 Technology Parkway Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
Georgia DW Microbiology Certification #: 812
North Carolina Certification #: 381
South Carolina Certification #: 98011001
Virginia Certification #: 460204

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Plant Branch
Pace Project No.: 2613846

Lab ID	Sample ID	Matrix	Date Collected	Date Received
2613846001	**BRGWC-50**	Water	01/16/19 16:10	01/17/19 10:20

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SAMPLE ANALYTE COUNT

Project: Plant Branch
Pace Project No.: 2613846

Lab ID	Sample ID	Method	Analysts	Analytes Reported
2613846001	**BRGWC-50**	EPA 6020B	CSW	14
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	MWB	3

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ANALYTICAL RESULTS

Project: Plant Branch
Pace Project No.: 2613846

Sample: BRGWC-50 **Lab ID: 2613846001** Collected: 01/16/19 16:10 Received: 01/17/19 10:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00078	1	01/21/19 12:25	01/22/19 16:39	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	01/21/19 12:25	01/22/19 16:39	7440-38-2	
Barium	**0.020**	mg/L	0.010	0.00078	1	01/21/19 12:25	01/22/19 16:39	7440-39-3	
Beryllium	**0.0038**	mg/L	0.0030	0.000050	1	01/21/19 12:25	01/22/19 16:39	7440-41-7	
Boron	**0.37**	mg/L	0.040	0.0039	1	01/21/19 12:25	01/22/19 16:39	7440-42-8	
Cadmium	**0.028**	mg/L	0.0010	0.000093	1	01/21/19 12:25	01/22/19 16:39	7440-43-9	
Calcium	**248**	mg/L	25.0	0.69	50	01/21/19 12:25	01/22/19 16:44	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	01/21/19 12:25	01/22/19 16:39	7440-47-3	
Cobalt	**1.4**	mg/L	0.50	0.026	50	01/21/19 12:25	01/22/19 16:44	7440-48-4	
Lead	ND	mg/L	0.0050	0.00027	1	01/21/19 12:25	01/22/19 16:39	7439-92-1	
Lithium	**0.042J**	mg/L	0.050	0.00097	1	01/21/19 12:25	01/22/19 16:39	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.0019	1	01/21/19 12:25	01/22/19 16:39	7439-98-7	
Selenium	ND	mg/L	0.010	0.0014	1	01/21/19 12:25	01/22/19 16:39	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	01/21/19 12:25	01/22/19 16:39	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	01/18/19 12:10	01/23/19 14:40	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**2270**	mg/L	25.0	10.0	1		01/18/19 13:23		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**24.1**	mg/L	0.25	0.024	1		01/21/19 20:53	16887-00-6	M1
Fluoride	**1.1**	mg/L	0.30	0.029	1		01/21/19 20:53	16984-48-8	
Sulfate	**589**	mg/L	1.0	0.017	1		01/21/19 20:53	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Branch
Pace Project No.: 2613846

QC Batch: 20870 Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
Associated Lab Samples: 2613846001

METHOD BLANK: 93839 Matrix: Water
Associated Lab Samples: 2613846001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00050	0.000036	01/23/19 14:26	

LABORATORY CONTROL SAMPLE: 93840

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0024	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 93841 93842

Parameter	Units	2613882001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0024	0.0025	95	99	75-125	3	20	

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QUALITY CONTROL DATA

Project: Plant Branch
Pace Project No.: 2613846

QC Batch: 20955
QC Batch Method: EPA 3005A
Associated Lab Samples: 2613846001

Analysis Method: EPA 6020B
Analysis Description: 6020B MET

METHOD BLANK: 94322 Matrix: Water
Associated Lab Samples: 2613846001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	01/22/19 16:27	
Arsenic	mg/L	ND	0.0050	0.00057	01/22/19 16:27	
Barium	mg/L	ND	0.010	0.00078	01/22/19 16:27	
Beryllium	mg/L	ND	0.0030	0.000050	01/22/19 16:27	
Boron	mg/L	ND	0.040	0.0039	01/22/19 16:27	
Cadmium	mg/L	ND	0.0010	0.000093	01/22/19 16:27	
Calcium	mg/L	ND	0.50	0.014	01/22/19 16:27	
Chromium	mg/L	ND	0.010	0.0016	01/22/19 16:27	
Cobalt	mg/L	ND	0.010	0.00052	01/22/19 16:27	
Lead	mg/L	ND	0.0050	0.00027	01/22/19 16:27	
Lithium	mg/L	ND	0.050	0.00097	01/22/19 16:27	
Molybdenum	mg/L	ND	0.010	0.0019	01/22/19 16:27	
Selenium	mg/L	ND	0.010	0.0014	01/22/19 16:27	
Thallium	mg/L	ND	0.0010	0.00014	01/22/19 16:27	

LABORATORY CONTROL SAMPLE: 94323

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.099	99	80-120	
Arsenic	mg/L	0.1	0.098	98	80-120	
Barium	mg/L	0.1	0.097	97	80-120	
Beryllium	mg/L	0.1	0.10	101	80-120	
Boron	mg/L	1	1.0	103	80-120	
Cadmium	mg/L	0.1	0.098	98	80-120	
Calcium	mg/L	1	0.98	98	80-120	
Chromium	mg/L	0.1	0.10	102	80-120	
Cobalt	mg/L	0.1	0.10	101	80-120	
Lead	mg/L	0.1	0.096	96	80-120	
Lithium	mg/L	0.1	0.10	101	80-120	
Molybdenum	mg/L	0.1	0.10	101	80-120	
Selenium	mg/L	0.1	0.097	97	80-120	
Thallium	mg/L	0.1	0.098	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 94324 94325

Parameter	Units	2613928011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.10	0.10	100	101	75-125	1	20	

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QUALITY CONTROL DATA

Project: Plant Branch
Pace Project No.: 2613846

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 94324 94325

Parameter	Units	2613928011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	0.0023J	0.1	0.1	0.10	0.10	98	97	75-125	1	20	
Barium	mg/L	0.054	0.1	0.1	0.15	0.15	96	97	75-125	1	20	
Beryllium	mg/L	ND	0.1	0.1	0.10	0.099	100	99	75-125	1	20	
Boron	mg/L	0.91	1	1	1.9	1.9	98	94	75-125	2	20	
Cadmium	mg/L	ND	0.1	0.1	0.10	0.10	100	99	75-125	1	20	
Calcium	mg/L	46.5	1	1	47.2	45.5	72	-104	75-125	4	20	M6
Chromium	mg/L	0.0021J	0.1	0.1	0.11	0.11	103	104	75-125	1	20	
Cobalt	mg/L	ND	0.1	0.1	0.099	0.10	99	101	75-125	2	20	
Lead	mg/L	ND	0.1	0.1	0.097	0.095	97	95	75-125	2	20	
Lithium	mg/L	ND	0.1	0.1	0.10	0.099	100	99	75-125	1	20	
Molybdenum	mg/L	0.087	0.1	0.1	0.19	0.19	104	105	75-125	1	20	
Selenium	mg/L	0.0018J	0.1	0.1	0.10	0.10	101	103	75-125	2	20	
Thallium	mg/L	ND	0.1	0.1	0.097	0.097	97	97	75-125	0	20	

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(770)734-4200

QUALITY CONTROL DATA

Project: Plant Branch
Pace Project No.: 2613846

QC Batch: 20852 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 2613846001

LABORATORY CONTROL SAMPLE: 93755

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	396	99	84-108	

SAMPLE DUPLICATE: 93756

Parameter	Units	2613841002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	118	122	3	10	

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QUALITY CONTROL DATA

Project: Plant Branch
Pace Project No.: 2613846

QC Batch: 20943 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 2613846001

METHOD BLANK: 94292 Matrix: Water
Associated Lab Samples: 2613846001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	0.13J	0.25	0.024	01/21/19 20:11	
Fluoride	mg/L	ND	0.30	0.029	01/21/19 20:11	
Sulfate	mg/L	ND	1.0	0.017	01/21/19 20:11	

LABORATORY CONTROL SAMPLE: 94293

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	10	9.5	95	90-110	
Fluoride	mg/L	10	9.0	90	90-110	
Sulfate	mg/L	10	9.6	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 94294 94295

Parameter	Units	2613846001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	24.1	10	10	30.6	30.7	65	66	90-110	0	15	M1
Fluoride	mg/L	1.1	10	10	10.7	10.8	95	96	90-110	1	15	
Sulfate	mg/L	1510	10	10	558	558	-312	-312	90-110	0	15	E,M1

MATRIX SPIKE SAMPLE: 94296

Parameter	Units	2613849001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	8.6	10	15.2	66	90-110	M1
Fluoride	mg/L	ND	10	9.3	93	90-110	
Sulfate	mg/L	209	10	160	-488	90-110	E,M1

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QUALIFIERS

Project: Plant Branch
Pace Project No.: 2613846

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

E	Analyte concentration exceeded the calibration range. The reported result is estimated.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
M6	Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

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(770)734-4200

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Branch
Pace Project No.: 2613846

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2613846001	**BRGWC-50**	EPA 3005A	20955	EPA 6020B	20975
2613846001	**BRGWC-50**	EPA 7470A	20870	EPA 7470A	20890
2613846001	**BRGWC-50**	SM 2540C	20852		
2613846001	**BRGWC-50**	EPA 300.0	20943		

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CHAIN OF CUSTODY RECORD

Pace Analytical®

Pace Analytical Services, Inc.
110 TECHNOLOGY PARKWAY, PEACHTREE CORNERS, GA 30092
(770) 734-4200 : FAX (770) 734-4201 : www.asi-lab.com

CLIENT NAME: Georgia Power

CLIENT ADDRESS/PHONE NUMBER/FAX NUMBER:
241 Ralph McGill Blvd SE B10185
Atlanta, GA 30308
404-506-7239

REPORT TO: Dawn Prell (Dawn_Prell@golder.com)
CC: rachel_kirkman@golder.com

REQUESTED COMPLETION DATE: 3-5 day
PO #: laburch@southernco.com

PROJECT NAME/STATE: Plant Branch

PROJECT #: Phase II CCR

ANALYSIS REQUESTED

Collection DATE	Collection TIME	MATRIX CODE*	COMP	GRAB	SAMPLE IDENTIFICATION	# of CONTAINERS		Metals App. III & IV (EPA 6020/7470)	Cl, F, SO_4 & TDS (EPA 300.0 & SM 2540C)	Radium 226 & 228 (SW-846 9315/9320)							LAB ID NUMBER
CONTAINER TYPE:								P	P	P							
PRESERVATION:								3&7	7	3&7							
01/16/19	1610	GW		x	BRGWC-50	4		X	X	X							

CONTAINER TYPE / PRESERVATION

CONTAINER TYPE	PRESERVATION
P - PLASTIC	1 - HCl, ≤6°C
A - AMBER GLASS	2 - H_2SO_4, ≤6°C
G - CLEAR GLASS	3 - HNO_3
V - VOA VIAL	4 - NaOH, ≤6°C
S - STERILE	5 - NaOH/ZnAc, ≤6°C
O - OTHER	6 - $Na_2S_2O_3$, ≤6°C
	7 - ≤6°C not frozen

*MATRIX CODES:

DW -	DRINKING WATER	S -	SOIL
WW -	WASTEWATER	SL -	SLUDGE
GW -	GROUNDWATER	SD -	SOLID
SW -	SURFACE WATER	A -	AIR
ST -	STORM WATER	L -	LIQUID
W -	WATER	P -	PRODUCT

REMARKS/ADDITIONAL INFORMATION

WO# : 2613846

2613846

SAMPLED BY AND TITLE: Golder
DATE/TIME:
RELINQUISHED BY:
DATE/TIME: 1-17-19/0819

RECEIVED BY:
DATE/TIME:
RELINQUISHED BY:
DATE/TIME:

RECEIVED BY LAB: Elaine Cook
DATE/TIME: 1/17/19
SAMPLE SHIPPED VIA: UPS FED-EX USPS COURIER CLIENT OTHER FS

pH checked: Yes No NA
Ice: Yes No NA
Temperature: Min: 0.3 Max:
Custody Seal: Intact Broken Not Present
# of Coolers:
Cooler ID:

FOR LAB USE ONLY
LAB #:
Entered into LIMS:
Tracking #:

Received by Lab:
MDahman 01/17/19, 1020

Sample Condition Upon Receipt

Face Analytical

Client Name: GA Power

Project # _____

WO#: 2613846

PM: BM Due Date: 01/24/19

CLIENT: GAPower-CCR

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☑ Commercial ☐ Pace Other

Tracking #: _____

Custody Seal on Cooler/Box Present: ☑ yes ☐ no Seals intact: ☑ yes

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Thermometer Used: 83 Type of Ice: Wet Blue None

Cooler Temperature: 0.3 Biological Tissue is Frozen: Yes No

Temp should be above freezing to 6°C

☐ Samples on ice, cooling process has begun

Date and Initials of person examining contents: 1/17/19 AR

				Comments:
Chain of Custody Present:	☑Yes	☐No	☐N/A	1.
Chain of Custody Filled Out:	☑Yes	☐No	☐N/A	2.
Chain of Custody Relinquished:	☑Yes	☐No	☐N/A	3.
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☑Yes	☐No	☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes	☑No	☐N/A	6.
Rush Turn Around Time Requested:	☐Yes	☑No	☐N/A	7.
Sufficient Volume:	☑Yes	☐No	☐N/A	8.
Correct Containers Used:	☑Yes	☐No	☐N/A	9.
-Pace Containers Used:	☑Yes	☐No	☐N/A	
Containers Intact:	☑Yes	☐No	☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☑N/A	11.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix: W	☑Yes	☐No	☐N/A	12.
All containers needing preservation have been checked.	☑Yes	☐No	☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes	☐No	☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes	☑No		Initial when completed: Lot # of added preservative:
Samples checked for dechlorination:	☐Yes	☐No	☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☑N/A	15.
Trip Blank Present:	☐Yes	☐No	☑N/A	16.
Trip Blank Custody Seals Present	☐Yes	☐No	☑N/A	
Pace Trip Blank Lot # (if purchased): _____				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ **Date:** _____

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

December 28, 2018

Joju Abraham
Georgia Power - Coal Combustion Residuals
2480 Maner Road
Atlanta, GA 30339

RE: Project: Plant Branch Pond BCD
Pace Project No.: 2613019

Dear Joju Abraham:
Enclosed are the analytical results for sample(s) received by the laboratory on December 20, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Betsy McDaniel
betsy.mcdaniel@pacelabs.com
(770)734-4200
Project Manager

Enclosures

cc: Kristen Jurinko, Golder Associates Inc.
Julie Lehrman, Golder Associates Inc.
Maria Padilla, Georgia Power
Dawn Prell, Golder Associates Inc.
Eric Rolle, Georgia Power - Coal Combustion Residuals
Rebecca Thornton, Pace Analytical Atlanta

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CERTIFICATIONS

Project: Plant Branch Pond BCD
Pace Project No.: 2613019

Atlanta Certification IDs

110 Technology Parkway Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
Georgia DW Microbiology Certification #: 812
North Carolina Certification #: 381
South Carolina Certification #: 98011001
Texas Certification #: T104704397-08-TX
Virginia Certification #: 460204

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SAMPLE SUMMARY

Project: Plant Branch Pond BCD
Pace Project No.: 2613019

Lab ID	Sample ID	Matrix	Date Collected	Date Received
2613019001	**BRGWC-50**	Water	12/19/18 10:45	12/20/18 15:40
2613019002	**BRGWC-32S**	Water	12/19/18 12:15	12/20/18 15:40
2613019003	**BRGWC-47**	Water	12/19/18 14:30	12/20/18 15:40
2613019004	**Dup-3**	Water	12/20/18 00:00	12/20/18 15:40
2613019005	**BRGWC-27I**	Water	12/20/18 10:08	12/20/18 15:40
2613019006	**RB-2**	Water	12/20/18 10:00	12/20/18 15:40
2613019007	**FB-2**	Water	12/20/18 10:05	12/20/18 15:40
2613019008	**FB-3**	Water	12/20/18 10:20	12/20/18 15:40
2613019009	**BRGWC-45**	Water	12/20/18 10:30	12/20/18 15:40
2613019010	**BRGWC-52**	Water	12/20/18 11:40	12/20/18 15:40

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SAMPLE ANALYTE COUNT

Project: Plant Branch Pond BCD
Pace Project No.: 2613019

Lab ID	Sample ID	Method	Analysts	Analytes Reported
2613019001	**BRGWC-50**	EPA 6020B	CSW	14
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3
2613019002	**BRGWC-32S**	EPA 6020B	CSW	14
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3
2613019003	**BRGWC-47**	EPA 6020B	CSW	14
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3
2613019004	**Dup-3**	EPA 6020B	CSW	14
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3
2613019005	**BRGWC-27I**	EPA 6020B	CSW	14
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3
2613019006	**RB-2**	EPA 6020B	CSW	14
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3
2613019007	**FB-2**	EPA 6020B	CSW	14
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3
2613019008	**FB-3**	EPA 6020B	CSW	14
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3
2613019009	**BRGWC-45**	EPA 6020B	CSW	14
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3
2613019010	**BRGWC-52**	EPA 6020B	CSW	14

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SAMPLE ANALYTE COUNT

Project: Plant Branch Pond BCD
Pace Project No.: 2613019

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3

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ANALYTICAL RESULTS

Project: Plant Branch Pond BCD
Pace Project No.: 2613019

Sample: BRGWC-50 **Lab ID: 2613019001** Collected: 12/19/18 10:45 Received: 12/20/18 15:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00078	1	12/24/18 11:40	12/26/18 13:56	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	12/24/18 11:40	12/26/18 13:56	7440-38-2	
Barium	**0.020**	mg/L	0.010	0.00078	1	12/24/18 11:40	12/26/18 13:56	7440-39-3	
Beryllium	**0.0043**	mg/L	0.0030	0.000050	1	12/24/18 11:40	12/26/18 13:56	7440-41-7	
Boron	**0.35**	mg/L	0.040	0.0039	1	12/24/18 11:40	12/26/18 13:56	7440-42-8	
Cadmium	**0.042**	mg/L	0.0010	0.000093	1	12/24/18 11:40	12/26/18 13:56	7440-43-9	
Calcium	**252**	mg/L	25.0	0.69	50	12/24/18 11:40	12/26/18 14:02	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	12/24/18 11:40	12/26/18 13:56	7440-47-3	
Cobalt	**1.5**	mg/L	0.50	0.026	50	12/24/18 11:40	12/26/18 14:02	7440-48-4	
Lead	ND	mg/L	0.0050	0.00027	1	12/24/18 11:40	12/26/18 13:56	7439-92-1	
Lithium	**0.043J**	mg/L	0.050	0.00097	1	12/24/18 11:40	12/26/18 13:56	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.0019	1	12/24/18 11:40	12/26/18 13:56	7439-98-7	
Selenium	ND	mg/L	0.010	0.0014	1	12/24/18 11:40	12/26/18 13:56	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	12/24/18 11:40	12/26/18 13:56	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	12/24/18 09:29	12/24/18 13:50	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**2190**	mg/L	25.0	10.0	1		12/21/18 13:55		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**23.3**	mg/L	0.25	0.024	1		12/28/18 02:22	16887-00-6	M1
Fluoride	**0.54**	mg/L	0.30	0.029	1		12/28/18 02:22	16984-48-8	
Sulfate	**1650**	mg/L	50.0	0.85	50		12/28/18 10:10	14808-79-8	M1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Branch Pond BCD
Pace Project No.: 2613019

Sample: BRGWC-32S **Lab ID: 2613019002** Collected: 12/19/18 12:15 Received: 12/20/18 15:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00078	1	12/24/18 11:40	12/26/18 14:08	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	12/24/18 11:40	12/26/18 14:08	7440-38-2	
Barium	**0.036**	mg/L	0.010	0.00078	1	12/24/18 11:40	12/26/18 14:08	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	12/24/18 11:40	12/26/18 14:08	7440-41-7	
Boron	**1.6**	mg/L	0.040	0.0039	1	12/24/18 11:40	12/26/18 14:08	7440-42-8	
Cadmium	**0.00012J**	mg/L	0.0010	0.000093	1	12/24/18 11:40	12/26/18 14:08	7440-43-9	B
Calcium	**61.2**	mg/L	25.0	0.69	50	12/24/18 11:40	12/26/18 14:14	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	12/24/18 11:40	12/26/18 14:08	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	12/24/18 11:40	12/26/18 14:08	7440-48-4	
Lead	ND	mg/L	0.0050	0.00027	1	12/24/18 11:40	12/26/18 14:08	7439-92-1	
Lithium	**0.0018J**	mg/L	0.050	0.00097	1	12/24/18 11:40	12/26/18 14:08	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.0019	1	12/24/18 11:40	12/26/18 14:08	7439-98-7	
Selenium	**0.0059J**	mg/L	0.010	0.0014	1	12/24/18 11:40	12/26/18 14:08	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	12/24/18 11:40	12/26/18 14:08	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	12/24/18 09:29	12/24/18 14:04	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**605**	mg/L	25.0	10.0	1		12/21/18 13:56		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**7.0**	mg/L	0.25	0.024	1		12/28/18 03:27	16887-00-6	
Fluoride	**0.23J**	mg/L	0.30	0.029	1		12/28/18 03:27	16984-48-8	
Sulfate	**370**	mg/L	20.0	0.34	20		12/28/18 10:33	14808-79-8	M1

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ANALYTICAL RESULTS

Project: Plant Branch Pond BCD
Pace Project No.: 2613019

Sample: BRGWC-47 **Lab ID: 2613019003** Collected: 12/19/18 14:30 Received: 12/20/18 15:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00078	1	12/24/18 11:40	12/26/18 14:19	7440-36-0	
Arsenic	**0.00075J**	mg/L	0.0050	0.00057	1	12/24/18 11:40	12/26/18 14:19	7440-38-2	
Barium	**0.040**	mg/L	0.010	0.00078	1	12/24/18 11:40	12/26/18 14:19	7440-39-3	
Beryllium	**0.000060J**	mg/L	0.0030	0.000050	1	12/24/18 11:40	12/26/18 14:19	7440-41-7	B
Boron	**0.41**	mg/L	0.040	0.0039	1	12/24/18 11:40	12/26/18 14:19	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	12/24/18 11:40	12/26/18 14:19	7440-43-9	
Calcium	**330**	mg/L	25.0	0.69	50	12/24/18 11:40	12/26/18 14:25	7440-70-2	
Chromium	**0.0018J**	mg/L	0.010	0.0016	1	12/24/18 11:40	12/26/18 14:19	7440-47-3	
Cobalt	**0.0014J**	mg/L	0.010	0.00052	1	12/24/18 11:40	12/26/18 14:19	7440-48-4	
Lead	ND	mg/L	0.0050	0.00027	1	12/24/18 11:40	12/26/18 14:19	7439-92-1	
Lithium	**0.043J**	mg/L	0.050	0.00097	1	12/24/18 11:40	12/26/18 14:19	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.0019	1	12/24/18 11:40	12/26/18 14:19	7439-98-7	
Selenium	ND	mg/L	0.010	0.0014	1	12/24/18 11:40	12/26/18 14:19	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	12/24/18 11:40	12/26/18 14:19	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	12/24/18 09:29	12/24/18 14:07	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**2060**	mg/L	25.0	10.0	1		12/21/18 13:56		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**4.5**	mg/L	0.25	0.024	1		12/28/18 03:49	16887-00-6	
Fluoride	**0.28J**	mg/L	0.30	0.029	1		12/28/18 03:49	16984-48-8	
Sulfate	**1520**	mg/L	50.0	0.85	50		12/28/18 10:56	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Branch Pond BCD
Pace Project No.: 2613019

Sample: Dup-3 **Lab ID: 2613019004** Collected: 12/20/18 00:00 Received: 12/20/18 15:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00078	1	12/24/18 11:40	12/26/18 14:31	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	12/24/18 11:40	12/26/18 14:31	7440-38-2	
Barium	**0.014**	mg/L	0.010	0.00078	1	12/24/18 11:40	12/26/18 14:31	7440-39-3	
Beryllium	**0.000099J**	mg/L	0.0030	0.000050	1	12/24/18 11:40	12/26/18 14:31	7440-41-7	B
Boron	**1.4**	mg/L	0.040	0.0039	1	12/24/18 11:40	12/26/18 14:31	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	12/24/18 11:40	12/26/18 14:31	7440-43-9	
Calcium	**62.7**	mg/L	25.0	0.69	50	12/24/18 11:40	12/26/18 14:37	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	12/24/18 11:40	12/26/18 14:31	7440-47-3	
Cobalt	**0.0078J**	mg/L	0.010	0.00052	1	12/24/18 11:40	12/26/18 14:31	7440-48-4	
Lead	ND	mg/L	0.0050	0.00027	1	12/24/18 11:40	12/26/18 14:31	7439-92-1	
Lithium	**0.0015J**	mg/L	0.050	0.00097	1	12/24/18 11:40	12/26/18 14:31	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.0019	1	12/24/18 11:40	12/26/18 14:31	7439-98-7	
Selenium	ND	mg/L	0.010	0.0014	1	12/24/18 11:40	12/26/18 14:31	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	12/24/18 11:40	12/26/18 14:31	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	12/24/18 09:29	12/24/18 14:09	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**350**	mg/L	25.0	10.0	1		12/21/18 13:59		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**5.6**	mg/L	0.25	0.024	1		12/28/18 04:11	16887-00-6	
Fluoride	**0.22J**	mg/L	0.30	0.029	1		12/28/18 04:11	16984-48-8	
Sulfate	**196**	mg/L	20.0	0.34	20		12/28/18 11:42	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Branch Pond BCD
Pace Project No.: 2613019

Sample: BRGWC-27I **Lab ID: 2613019005** Collected: 12/20/18 10:08 Received: 12/20/18 15:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00078	1	12/24/18 11:40	12/26/18 15:04	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	12/24/18 11:40	12/26/18 15:04	7440-38-2	
Barium	**0.015**	mg/L	0.010	0.00078	1	12/24/18 11:40	12/26/18 15:04	7440-39-3	
Beryllium	**0.00012J**	mg/L	0.0030	0.000050	1	12/24/18 11:40	12/26/18 15:04	7440-41-7	B
Boron	**1.4**	mg/L	0.040	0.0039	1	12/24/18 11:40	12/26/18 15:04	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	12/24/18 11:40	12/26/18 15:04	7440-43-9	
Calcium	**63.9**	mg/L	25.0	0.69	50	12/24/18 11:40	12/26/18 15:10	7440-70-2	
Chromium	**0.0030J**	mg/L	0.010	0.0016	1	12/24/18 11:40	12/26/18 15:04	7440-47-3	
Cobalt	**0.0081J**	mg/L	0.010	0.00052	1	12/24/18 11:40	12/26/18 15:04	7440-48-4	
Lead	ND	mg/L	0.0050	0.00027	1	12/24/18 11:40	12/26/18 15:04	7439-92-1	
Lithium	**0.0015J**	mg/L	0.050	0.00097	1	12/24/18 11:40	12/26/18 15:04	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.0019	1	12/24/18 11:40	12/26/18 15:04	7439-98-7	
Selenium	ND	mg/L	0.010	0.0014	1	12/24/18 11:40	12/26/18 15:04	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	12/24/18 11:40	12/26/18 15:04	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	12/24/18 09:29	12/24/18 14:11	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**344**	mg/L	25.0	10.0	1		12/21/18 14:00		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**5.6**	mg/L	0.25	0.024	1		12/28/18 04:33	16887-00-6	
Fluoride	**0.26J**	mg/L	0.30	0.029	1		12/28/18 04:33	16984-48-8	
Sulfate	**200**	mg/L	20.0	0.34	20		12/28/18 12:06	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Branch Pond BCD
Pace Project No.: 2613019

Sample: RB-2 **Lab ID: 2613019006** Collected: 12/20/18 10:00 Received: 12/20/18 15:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00078	1	12/24/18 11:40	12/26/18 15:16	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	12/24/18 11:40	12/26/18 15:16	7440-38-2	
Barium	ND	mg/L	0.010	0.00078	1	12/24/18 11:40	12/26/18 15:16	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	12/24/18 11:40	12/26/18 15:16	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	12/24/18 11:40	12/26/18 15:16	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	12/24/18 11:40	12/26/18 15:16	7440-43-9	
Calcium	ND	mg/L	0.50	0.014	1	12/24/18 11:40	12/26/18 15:16	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	12/24/18 11:40	12/26/18 15:16	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	12/24/18 11:40	12/26/18 15:16	7440-48-4	
Lead	ND	mg/L	0.0050	0.00027	1	12/24/18 11:40	12/26/18 15:16	7439-92-1	
Lithium	ND	mg/L	0.050	0.00097	1	12/24/18 11:40	12/26/18 15:16	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.0019	1	12/24/18 11:40	12/26/18 15:16	7439-98-7	
Selenium	ND	mg/L	0.010	0.0014	1	12/24/18 11:40	12/26/18 15:16	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	12/24/18 11:40	12/26/18 15:16	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	12/24/18 09:29	12/24/18 14:14	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**16.0J**	mg/L	25.0	10.0	1		12/21/18 14:00		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**0.12J**	mg/L	0.25	0.024	1		12/28/18 04:54	16887-00-6	B
Fluoride	ND	mg/L	0.30	0.029	1		12/28/18 04:54	16984-48-8	
Sulfate	ND	mg/L	1.0	0.017	1		12/28/18 04:54	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Branch Pond BCD
Pace Project No.: 2613019

Sample: FB-2 **Lab ID: 2613019007** Collected: 12/20/18 10:05 Received: 12/20/18 15:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00078	1	12/24/18 11:40	12/26/18 15:22	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	12/24/18 11:40	12/26/18 15:22	7440-38-2	
Barium	ND	mg/L	0.010	0.00078	1	12/24/18 11:40	12/26/18 15:22	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	12/24/18 11:40	12/26/18 15:22	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	12/24/18 11:40	12/26/18 15:22	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	12/24/18 11:40	12/26/18 15:22	7440-43-9	
Calcium	ND	mg/L	0.50	0.014	1	12/24/18 11:40	12/26/18 15:22	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	12/24/18 11:40	12/26/18 15:22	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	12/24/18 11:40	12/26/18 15:22	7440-48-4	
Lead	ND	mg/L	0.0050	0.00027	1	12/24/18 11:40	12/26/18 15:22	7439-92-1	
Lithium	ND	mg/L	0.050	0.00097	1	12/24/18 11:40	12/26/18 15:22	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.0019	1	12/24/18 11:40	12/26/18 15:22	7439-98-7	
Selenium	ND	mg/L	0.010	0.0014	1	12/24/18 11:40	12/26/18 15:22	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	12/24/18 11:40	12/26/18 15:22	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	12/24/18 09:29	12/24/18 14:16	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**17.0J**	mg/L	25.0	10.0	1		12/21/18 14:00		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**0.083J**	mg/L	0.25	0.024	1		12/28/18 05:16	16887-00-6	B
Fluoride	ND	mg/L	0.30	0.029	1		12/28/18 05:16	16984-48-8	
Sulfate	ND	mg/L	1.0	0.017	1		12/28/18 05:16	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Branch Pond BCD
Pace Project No.: 2613019

Sample: FB-3 **Lab ID: 2613019008** Collected: 12/20/18 10:20 Received: 12/20/18 15:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00078	1	12/24/18 11:40	12/26/18 15:27	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	12/24/18 11:40	12/26/18 15:27	7440-38-2	
Barium	ND	mg/L	0.010	0.00078	1	12/24/18 11:40	12/26/18 15:27	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	12/24/18 11:40	12/26/18 15:27	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	12/24/18 11:40	12/26/18 15:27	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	12/24/18 11:40	12/26/18 15:27	7440-43-9	
Calcium	ND	mg/L	0.50	0.014	1	12/24/18 11:40	12/26/18 15:27	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	12/24/18 11:40	12/26/18 15:27	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	12/24/18 11:40	12/26/18 15:27	7440-48-4	
Lead	ND	mg/L	0.0050	0.00027	1	12/24/18 11:40	12/26/18 15:27	7439-92-1	
Lithium	ND	mg/L	0.050	0.00097	1	12/24/18 11:40	12/26/18 15:27	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.0019	1	12/24/18 11:40	12/26/18 15:27	7439-98-7	
Selenium	ND	mg/L	0.010	0.0014	1	12/24/18 11:40	12/26/18 15:27	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	12/24/18 11:40	12/26/18 15:27	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	12/24/18 09:29	12/24/18 14:18	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**20.0J**	mg/L	25.0	10.0	1		12/21/18 14:01		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**0.12J**	mg/L	0.25	0.024	1		12/28/18 05:38	16887-00-6	B
Fluoride	ND	mg/L	0.30	0.029	1		12/28/18 05:38	16984-48-8	
Sulfate	ND	mg/L	1.0	0.017	1		12/28/18 05:38	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Branch Pond BCD
Pace Project No.: 2613019

Sample: BRGWC-45 **Lab ID: 2613019009** Collected: 12/20/18 10:30 Received: 12/20/18 15:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	**0.0024J**	mg/L	0.0030	0.00078	1	12/24/18 11:40	12/26/18 15:33	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	12/24/18 11:40	12/26/18 15:33	7440-38-2	
Barium	**0.093**	mg/L	0.010	0.00078	1	12/24/18 11:40	12/26/18 15:33	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	12/24/18 11:40	12/26/18 15:33	7440-41-7	
Boron	**0.028J**	mg/L	0.040	0.0039	1	12/24/18 11:40	12/26/18 15:33	7440-42-8	
Cadmium	**0.00029J**	mg/L	0.0010	0.000093	1	12/24/18 11:40	12/26/18 15:33	7440-43-9	B
Calcium	**39.0**	mg/L	25.0	0.69	50	12/24/18 11:40	12/26/18 15:39	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	12/24/18 11:40	12/26/18 15:33	7440-47-3	
Cobalt	**0.069**	mg/L	0.010	0.00052	1	12/24/18 11:40	12/26/18 15:33	7440-48-4	
Lead	ND	mg/L	0.0050	0.00027	1	12/24/18 11:40	12/26/18 15:33	7439-92-1	
Lithium	**0.0030J**	mg/L	0.050	0.00097	1	12/24/18 11:40	12/26/18 15:33	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.0019	1	12/24/18 11:40	12/26/18 15:33	7439-98-7	
Selenium	ND	mg/L	0.010	0.0014	1	12/24/18 11:40	12/26/18 15:33	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	12/24/18 11:40	12/26/18 15:33	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	12/24/18 09:29	12/24/18 14:21	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**322**	mg/L	25.0	10.0	1		12/21/18 14:01		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**47.2**	mg/L	0.25	0.024	1		12/28/18 07:27	16887-00-6	
Fluoride	**0.12J**	mg/L	0.30	0.029	1		12/28/18 07:27	16984-48-8	
Sulfate	**113**	mg/L	10.0	0.17	10		12/28/18 12:29	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Branch Pond BCD
Pace Project No.: 2613019

Sample: BRGWC-52 **Lab ID: 2613019010** Collected: 12/20/18 11:40 Received: 12/20/18 15:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00078	1	12/24/18 11:40	12/26/18 15:45	7440-36-0	
Arsenic	**0.0032J**	mg/L	0.0050	0.00057	1	12/24/18 11:40	12/26/18 15:45	7440-38-2	
Barium	**0.013**	mg/L	0.010	0.00078	1	12/24/18 11:40	12/26/18 15:45	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	12/24/18 11:40	12/26/18 15:45	7440-41-7	
Boron	**1.6**	mg/L	0.040	0.0039	1	12/24/18 11:40	12/26/18 15:45	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	12/24/18 11:40	12/26/18 15:45	7440-43-9	
Calcium	**43.2**	mg/L	25.0	0.69	50	12/24/18 11:40	12/26/18 15:50	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	12/24/18 11:40	12/26/18 15:45	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	12/24/18 11:40	12/26/18 15:45	7440-48-4	
Lead	ND	mg/L	0.0050	0.00027	1	12/24/18 11:40	12/26/18 15:45	7439-92-1	
Lithium	**0.0042J**	mg/L	0.050	0.00097	1	12/24/18 11:40	12/26/18 15:45	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.0019	1	12/24/18 11:40	12/26/18 15:45	7439-98-7	
Selenium	ND	mg/L	0.010	0.0014	1	12/24/18 11:40	12/26/18 15:45	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	12/24/18 11:40	12/26/18 15:45	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	12/24/18 09:29	12/24/18 14:28	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**355**	mg/L	25.0	10.0	1		12/21/18 14:01		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**6.6**	mg/L	0.25	0.024	1		12/28/18 07:49	16887-00-6	
Fluoride	**0.30**	mg/L	0.30	0.029	1		12/28/18 07:49	16984-48-8	
Sulfate	**150**	mg/L	50.0	0.85	50		12/28/18 12:52	14808-79-8	

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QUALITY CONTROL DATA

Project: Plant Branch Pond BCD
Pace Project No.: 2613019

QC Batch: 19557 Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
Associated Lab Samples: 2613019001, 2613019002, 2613019003, 2613019004, 2613019005, 2613019006, 2613019007, 2613019008, 2613019009, 2613019010

METHOD BLANK: 88494 Matrix: Water
Associated Lab Samples: 2613019001, 2613019002, 2613019003, 2613019004, 2613019005, 2613019006, 2613019007, 2613019008, 2613019009, 2613019010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00050	0.000036	12/24/18 13:45	

LABORATORY CONTROL SAMPLE: 88495

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0027	108	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 88496 88497

Parameter	Units	2613019001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0023	0.0023	92	92	75-125	0	20	

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QUALITY CONTROL DATA

Project: Plant Branch Pond BCD
Pace Project No.: 2613019

QC Batch: 19572 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020B MET
Associated Lab Samples: 2613019001, 2613019002, 2613019003, 2613019004, 2613019005, 2613019006, 2613019007, 2613019008, 2613019009, 2613019010

METHOD BLANK: 88528 Matrix: Water
Associated Lab Samples: 2613019001, 2613019002, 2613019003, 2613019004, 2613019005, 2613019006, 2613019007, 2613019008, 2613019009, 2613019010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	12/26/18 13:45	
Arsenic	mg/L	ND	0.0050	0.00057	12/26/18 13:45	
Barium	mg/L	ND	0.010	0.00078	12/26/18 13:45	
Beryllium	mg/L	0.00012J	0.0030	0.000050	12/26/18 13:45	
Boron	mg/L	ND	0.040	0.0039	12/26/18 13:45	
Cadmium	mg/L	0.00021J	0.0010	0.000093	12/26/18 13:45	
Calcium	mg/L	ND	0.50	0.014	12/26/18 13:45	
Chromium	mg/L	ND	0.010	0.0016	12/26/18 13:45	
Cobalt	mg/L	ND	0.010	0.00052	12/26/18 13:45	
Lead	mg/L	ND	0.0050	0.00027	12/26/18 13:45	
Lithium	mg/L	ND	0.050	0.00097	12/26/18 13:45	
Molybdenum	mg/L	ND	0.010	0.0019	12/26/18 13:45	
Selenium	mg/L	ND	0.010	0.0014	12/26/18 13:45	
Thallium	mg/L	0.00015J	0.0010	0.00014	12/26/18 13:45	

LABORATORY CONTROL SAMPLE: 88529

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	108	80-120	
Arsenic	mg/L	0.1	0.10	101	80-120	
Barium	mg/L	0.1	0.10	101	80-120	
Beryllium	mg/L	0.1	0.11	111	80-120	
Boron	mg/L	1	1.1	112	80-120	
Cadmium	mg/L	0.1	0.10	104	80-120	
Calcium	mg/L	1	1.1	105	80-120	
Chromium	mg/L	0.1	0.11	105	80-120	
Cobalt	mg/L	0.1	0.10	104	80-120	
Lead	mg/L	0.1	0.10	104	80-120	
Lithium	mg/L	0.1	0.11	107	80-120	
Molybdenum	mg/L	0.1	0.11	107	80-120	
Selenium	mg/L	0.1	0.11	106	80-120	
Thallium	mg/L	0.1	0.10	101	80-120	

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QUALITY CONTROL DATA

Project: Plant Branch Pond BCD
Pace Project No.: 2613019

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 88560 88561

Parameter	Units	2613031001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.11	0.11	109	112	75-125	3	20	
Arsenic	mg/L	0.18	0.1	0.1	0.29	0.29	106	106	75-125	0	20	
Barium	mg/L	0.13	0.1	0.1	0.23	0.23	97	100	75-125	2	20	
Beryllium	mg/L	ND	0.1	0.1	0.10	0.10	102	104	75-125	2	20	
Boron	mg/L	0.37	1	1	1.4	1.5	101	108	75-125	5	20	
Cadmium	mg/L	ND	0.1	0.1	0.11	0.11	110	109	75-125	1	20	
Calcium	mg/L	50.7	1	1	51.4	52.8	62	202	75-125	3	20	
Chromium	mg/L	ND	0.1	0.1	0.11	0.11	107	108	75-125	1	20	
Cobalt	mg/L	ND	0.1	0.1	0.10	0.10	103	104	75-125	1	20	
Lead	mg/L	0.00028J	0.1	0.1	0.10	0.11	102	105	75-125	3	20	
Lithium	mg/L	0.013J	0.1	0.1	0.11	0.11	97	102	75-125	4	20	
Molybdenum	mg/L	0.023	0.1	0.1	0.13	0.14	111	112	75-125	1	20	
Selenium	mg/L	ND	0.1	0.1	0.10	0.10	105	103	75-125	2	20	
Thallium	mg/L	ND	0.1	0.1	0.10	0.10	100	103	75-125	3	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Branch Pond BCD
Pace Project No.: 2613019

QC Batch: 19449 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 2613019001, 2613019002, 2613019003, 2613019004, 2613019005, 2613019006, 2613019007, 2613019008, 2613019009, 2613019010

LABORATORY CONTROL SAMPLE: 87892

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	396	99	84-108	

SAMPLE DUPLICATE: 87893

Parameter	Units	2612966001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1190	1190	0	10	

SAMPLE DUPLICATE: 87894

Parameter	Units	2613021001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	500	505	1	10	

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(770)734-4200

QUALITY CONTROL DATA

Project: Plant Branch Pond BCD
Pace Project No.: 2613019

QC Batch: 19708 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 2613019001, 2613019002, 2613019003, 2613019004, 2613019005, 2613019006, 2613019007, 2613019008, 2613019009, 2613019010

METHOD BLANK: 88889 Matrix: Water
Associated Lab Samples: 2613019001, 2613019002, 2613019003, 2613019004, 2613019005, 2613019006, 2613019007, 2613019008, 2613019009, 2613019010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	0.11J	0.25	0.024	12/28/18 01:38	
Fluoride	mg/L	ND	0.30	0.029	12/28/18 01:38	
Sulfate	mg/L	ND	1.0	0.017	12/28/18 01:38	

LABORATORY CONTROL SAMPLE: 88890

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	10	9.9	99	90-110	
Fluoride	mg/L	10	10.0	100	90-110	
Sulfate	mg/L	10	10.1	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 88891 88892

Parameter	Units	2613019001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	23.3	10	10	30.3	30.2	70	69	90-110	0	15	M1
Fluoride	mg/L	0.54	10	10	11.1	10.9	106	104	90-110	2	15	
Sulfate	mg/L	1650	10	10	557	558	-10900	-10900	90-110	0	15	E,M1

MATRIX SPIKE SAMPLE: 88893

Parameter	Units	2613019002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	7.0	10	16.6	95	90-110	
Fluoride	mg/L	0.23J	10	10.5	103	90-110	
Sulfate	mg/L	370	10	235	-1360	90-110	E,M1

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QUALIFIERS

Project: Plant Branch Pond BCD
Pace Project No.: 2613019

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

B	Analyte was detected in the associated method blank.
E	Analyte concentration exceeded the calibration range. The reported result is estimated.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Branch Pond BCD
Pace Project No.: 2613019

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2613019001	**BRGWC-50**	EPA 3005A	19572	EPA 6020B	19609
2613019002	**BRGWC-32S**	EPA 3005A	19572	EPA 6020B	19609
2613019003	**BRGWC-47**	EPA 3005A	19572	EPA 6020B	19609
2613019004	**Dup-3**	EPA 3005A	19572	EPA 6020B	19609
2613019005	**BRGWC-27I**	EPA 3005A	19572	EPA 6020B	19609
2613019006	**RB-2**	EPA 3005A	19572	EPA 6020B	19609
2613019007	**FB-2**	EPA 3005A	19572	EPA 6020B	19609
2613019008	**FB-3**	EPA 3005A	19572	EPA 6020B	19609
2613019009	**BRGWC-45**	EPA 3005A	19572	EPA 6020B	19609
2613019010	**BRGWC-52**	EPA 3005A	19572	EPA 6020B	19609
2613019001	**BRGWC-50**	EPA 7470A	19557	EPA 7470A	19591
2613019002	**BRGWC-32S**	EPA 7470A	19557	EPA 7470A	19591
2613019003	**BRGWC-47**	EPA 7470A	19557	EPA 7470A	19591
2613019004	**Dup-3**	EPA 7470A	19557	EPA 7470A	19591
2613019005	**BRGWC-27I**	EPA 7470A	19557	EPA 7470A	19591
2613019006	**RB-2**	EPA 7470A	19557	EPA 7470A	19591
2613019007	**FB-2**	EPA 7470A	19557	EPA 7470A	19591
2613019008	**FB-3**	EPA 7470A	19557	EPA 7470A	19591
2613019009	**BRGWC-45**	EPA 7470A	19557	EPA 7470A	19591
2613019010	**BRGWC-52**	EPA 7470A	19557	EPA 7470A	19591
2613019001	**BRGWC-50**	SM 2540C	19449		
2613019002	**BRGWC-32S**	SM 2540C	19449		
2613019003	**BRGWC-47**	SM 2540C	19449		
2613019004	**Dup-3**	SM 2540C	19449		
2613019005	**BRGWC-27I**	SM 2540C	19449		
2613019006	**RB-2**	SM 2540C	19449		
2613019007	**FB-2**	SM 2540C	19449		
2613019008	**FB-3**	SM 2540C	19449		
2613019009	**BRGWC-45**	SM 2540C	19449		
2613019010	**BRGWC-52**	SM 2540C	19449		
2613019001	**BRGWC-50**	EPA 300.0	19708		
2613019002	**BRGWC-32S**	EPA 300.0	19708		
2613019003	**BRGWC-47**	EPA 300.0	19708		
2613019004	**Dup-3**	EPA 300.0	19708		
2613019005	**BRGWC-27I**	EPA 300.0	19708		
2613019006	**RB-2**	EPA 300.0	19708		
2613019007	**FB-2**	EPA 300.0	19708		
2613019008	**FB-3**	EPA 300.0	19708		
2613019009	**BRGWC-45**	EPA 300.0	19708		
2613019010	**BRGWC-52**	EPA 300.0	19708		

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CHAIN OF CUSTODY RECORD

Pace Analytical
www.paceLabs.com

Pace Analytical Services, LLC - Atlanta GA
110 TECHNOLOGY PARKWAY, PEACHTREE CORNERS, GA 30092
(770) 734-4200 : FAX (770) 734-4201

CLIENT NAME: Georgia Power

CLIENT ADDRESS/PHONE NUMBER/FAX NUMBER:
241 Ralph McGill Blvd SE 30308
Atlanta, GA 30303 P. 404-506-7234

REPORT TO: Jojo Abraham | CC: Maria Padilla

REQUESTED COMPLETION DATE: — | PO #: Tahachapi Southern Company

PROJECT NAME/STATE: Plant Branch

PROJECT #: State LCR

ANALYSIS REQUESTED

Collection DATE	Collection TIME	MATRIX CODE*	COMP	GRAB	SAMPLE IDENTIFICATION	# of CONTAINERS	CONTAINER TYPE	PRESERVATION	mcnhs, APP 3 or 4 (EPA 6010 or 7470)	TDS, Cl, F, SO4 (EPA 300.0 or SM2540C)	Radium 226 & 228 (9315/9320)	LAB ID NUMBER	REMARKS/ADDITIONAL INFORMATION
							P	3*	1	1	2		
12-19-18	1045	GW		X	BRGWC-50	4			1	1	2		
12-19-18	1215	GW		X	BRGWC-32S	4			1	1	2		
12-19-18	1430	GW		X	BRGWC-47	4			1	1	2		
12-20-18	—	GW		X	DUP-3	4			1	1	2		
12-20-18	1008	GW		X	BRGWC-27F	6			1	1	4		+2 Radium
12-20-18	1000	W		X	RB-2	4			1	1	2		
12-20-18	1005	W		X	FB-2	4			1	1	2		
12-20-18	1020	W		X	FB-3	4			1	1	2		
12-20-18	1030	GW		X	BRGWC-45	4			1	1	2		
12-20-18	1140	GW		X	BRGWC-52	4			1	1	2		

CONTAINER TYPE
P - PLASTIC
A - AMBER GLASS
G - CLEAR GLASS
V - VOA VIAL
S - STERILE
O - OTHER

PRESERVATION
1 - HCl, ≤6°C
2 - H_2SO_4, ≤6°C
3 - HNO_3
4 - NaOH, ≤6°C
5 - NaOH/ZnAc, ≤6°C
6 - $Na_2S_2O_3$, ≤6°C
7 - ≤6°C not frozen

***MATRIX CODES:**
DW - DRINKING WATER
WW - WASTEWATER
GW - GROUNDWATER
SW - SURFACE WATER
ST - STORM WATER
W - WATER
S - SOIL
SL - SLUDGE
SD - SOLID
A - AIR
L - LIQUID
P - PRODUCT

WO#: 2613019

2613019

SAMPLED BY AND TITLE: Travis Masteed & Karen Mahan | DATE/TIME: 12-20-18 1330

RELINQUISHED BY: | DATE/TIME: 12-20-18 1540

RECEIVED BY: | DATE/TIME:

RELINQUISHED BY: | DATE/TIME:

RECEIVED BY/LAB: | DATE/TIME: 12/20/18 1540

SAMPLE SHIPPED VIA: UPS FED-EX USPS COURIER CLIENT OTHER FS

Custody Seal: Intact Broken Not Present N/A | # of Coolers | Cooler ID:

Temperature: Min: 0.2 Max:

VOA checked: Yes No NA | Ice: Yes No NA

FOR LAB USE ONLY
LAB #:
Entered into LIMS:
Tracking #:

Sample Condition Upon Receipt

Pace Analytical

Client Name: GA Power

Project #

WO#: 2613019

PM: BM Due Date: 12/28/18

CLIENT: GAPower-CCR

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Commercial ☐ Pace Other

Tracking #:

Custody Seal on Cooler/Box Present: ☑ yes ☐ no Seals intact: ☑ yes

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Thermometer Used 23 Type of Ice: (Wet) Blue None

Cooler Temperature 0.2 Biological Tissue is Frozen: Yes No

Temp should be above freezing to 6°C

☐ Samples on ice, cooling process has begun

Date and Initials of person examining contents: 12/20/18 MR

			Comments:
Chain of Custody Present:	☑Yes	☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes	☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes	☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes	☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes	☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes	☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes	☑No ☐N/A	7.
Sufficient Volume:	☑Yes	☐No ☐N/A	8.
Correct Containers Used:	☑Yes	☐No ☐N/A	9.
-Pace Containers Used:	☑Yes	☐No ☐N/A	
Containers Intact:	☑Yes	☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes	☐No ☑N/A	11.
Sample Labels match COC:	☑Yes	☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W			
All containers needing preservation have been checked	☑Yes	☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes	☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes	☑No	Initial when completed / Lot # of added preservative
Samples checked for dechlorination:	☐Yes	☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes	☐No ☑N/A	15.
Trip Blank Present:	☐Yes	☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes	☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):			

Client Notification/ Resolution: Field Data Required? Y N

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: **Date:**

Note: Whenever there is a discrepancy affecting North Carolina compliance samples a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers).

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

December 06, 2018

Joju Abraham
Georgia Power - Coal Combustion Residuals
2480 Maner Road
Atlanta, GA 30339

RE: Project: Plant Branch
Pace Project No.: 2612012

Dear Joju Abraham:
Enclosed are the analytical results for sample(s) received by the laboratory on November 29, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Betsy McDaniel
betsy.mcdaniel@pacelabs.com
(770)734-4200
Project Manager

Enclosures

cc: Kristen Jurinko, Golder Associates Inc.
Julie Lehrman, Golder Associates Inc.
Maria Padilla, Georgia Power
Dawn Prell, Golder Associates Inc.
Eric Rolle, Georgia Power - Coal Combustion Residuals
Rebecca Thornton, Pace Analytical Atlanta

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CERTIFICATIONS

Project: Plant Branch
Pace Project No.: 2612012

Atlanta Certification IDs

110 Technology Parkway Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
Georgia DW Microbiology Certification #: 812
North Carolina Certification #: 381
South Carolina Certification #: 98011001
Texas Certification #: T104704397-08-TX
Virginia Certification #: 460204

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SAMPLE SUMMARY

Project: Plant Branch
Pace Project No.: 2612012

Lab ID	Sample ID	Matrix	Date Collected	Date Received
2612012001	**BRGWC-45**	Water	11/28/18 16:05	11/29/18 09:00
2612012002	**BRGWC-47**	Water	11/28/18 11:05	11/29/18 09:00
2612012003	**BRGWC-50**	Water	11/28/18 12:15	11/29/18 09:00
2612012004	**BRGWC-52**	Water	11/28/18 14:35	11/29/18 09:00
2612012005	**FB-1**	Water	11/28/18 11:30	11/29/18 09:00
2612012006	**EB-1**	Water	11/28/18 16:45	11/29/18 09:00
2612012007	**FD-1**	Water	11/28/18 00:00	11/29/18 09:00

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SAMPLE ANALYTE COUNT

Project: Plant Branch
Pace Project No.: 2612012

Lab ID	Sample ID	Method	Analysts	Analytes Reported
2612012001	**BRGWC-45**	EPA 6020B	CSW	14
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3
2612012002	**BRGWC-47**	EPA 6020B	CSW	14
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3
2612012003	**BRGWC-50**	EPA 6020B	CSW	14
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3
2612012004	**BRGWC-52**	EPA 6020B	CSW	14
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3
2612012005	**FB-1**	EPA 6020B	CSW	14
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3
2612012006	**EB-1**	EPA 6020B	CSW	14
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3
2612012007	**FD-1**	EPA 6020B	CSW	14
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3

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ANALYTICAL RESULTS

Project: Plant Branch
Pace Project No.: 2612012

Sample: BRGWC-45 **Lab ID: 2612012001** Collected: 11/28/18 16:05 Received: 11/29/18 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00078	1	11/29/18 12:11	11/30/18 15:25	7440-36-0	
Arsenic	**0.00096J**	mg/L	0.0050	0.00057	1	11/29/18 12:11	11/30/18 15:25	7440-38-2	
Barium	**0.11**	mg/L	0.010	0.00078	1	11/29/18 12:11	11/30/18 15:25	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	11/29/18 12:11	11/30/18 15:25	7440-41-7	
Boron	**0.026J**	mg/L	0.040	0.0039	1	11/29/18 12:11	11/30/18 15:25	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	11/29/18 12:11	11/30/18 15:25	7440-43-9	
Calcium	**45.1**	mg/L	25.0	0.69	50	11/29/18 12:11	11/30/18 15:31	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	11/29/18 12:11	11/30/18 15:25	7440-47-3	
Cobalt	**0.0071J**	mg/L	0.010	0.00052	1	11/29/18 12:11	11/30/18 15:25	7440-48-4	
Lead	ND	mg/L	0.0050	0.00027	1	11/29/18 12:11	11/30/18 15:25	7439-92-1	
Lithium	**0.0035J**	mg/L	0.050	0.00097	1	11/29/18 12:11	11/30/18 15:25	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.0019	1	11/29/18 12:11	11/30/18 15:25	7439-98-7	
Selenium	ND	mg/L	0.010	0.0014	1	11/29/18 12:11	11/30/18 15:25	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	11/29/18 12:11	11/30/18 15:25	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	12/03/18 09:23	12/03/18 13:30	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**358**	mg/L	25.0	10.0	1		11/29/18 13:08		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**58.1**	mg/L	2.5	0.24	10		12/04/18 03:34	16887-00-6	M1
Fluoride	ND	mg/L	0.30	0.029	1		12/03/18 22:40	16984-48-8	
Sulfate	**133**	mg/L	10.0	0.17	10		12/04/18 03:34	14808-79-8	M1

REPORT OF LABORATORY ANALYSIS

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Peachtree Corners, GA 30092
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ANALYTICAL RESULTS

Project: Plant Branch
Pace Project No.: 2612012

Sample: BRGWC-47 **Lab ID: 2612012002** Collected: 11/28/18 11:05 Received: 11/29/18 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00078	1	11/29/18 12:11	11/30/18 15:36	7440-36-0	
Arsenic	**0.0019J**	mg/L	0.0050	0.00057	1	11/29/18 12:11	11/30/18 15:36	7440-38-2	
Barium	**0.039**	mg/L	0.010	0.00078	1	11/29/18 12:11	11/30/18 15:36	7440-39-3	
Beryllium	**0.000056J**	mg/L	0.0030	0.000050	1	11/29/18 12:11	11/30/18 15:36	7440-41-7	
Boron	**0.51**	mg/L	0.040	0.0039	1	11/29/18 12:11	11/30/18 15:36	7440-42-8	
Cadmium	**0.00022J**	mg/L	0.0010	0.000093	1	11/29/18 12:11	11/30/18 15:36	7440-43-9	
Calcium	**354**	mg/L	25.0	0.69	50	11/29/18 12:11	11/30/18 15:42	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	11/29/18 12:11	11/30/18 15:36	7440-47-3	
Cobalt	**0.0016J**	mg/L	0.010	0.00052	1	11/29/18 12:11	11/30/18 15:36	7440-48-4	
Lead	ND	mg/L	0.0050	0.00027	1	11/29/18 12:11	11/30/18 15:36	7439-92-1	
Lithium	**0.044J**	mg/L	0.050	0.00097	1	11/29/18 12:11	11/30/18 15:36	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.0019	1	11/29/18 12:11	11/30/18 15:36	7439-98-7	
Selenium	ND	mg/L	0.010	0.0014	1	11/29/18 12:11	11/30/18 15:36	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	11/29/18 12:11	11/30/18 15:36	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	12/03/18 09:23	12/03/18 14:09	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**2320**	mg/L	25.0	10.0	1		11/29/18 13:08		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**5.1**	mg/L	0.25	0.024	1		12/03/18 23:48	16887-00-6	
Fluoride	**0.063J**	mg/L	0.30	0.029	1		12/03/18 23:48	16984-48-8	
Sulfate	**1730**	mg/L	50.0	0.85	50		12/04/18 03:57	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Branch
Pace Project No.: 2612012

Sample: BRGWC-50 **Lab ID: 2612012003** Collected: 11/28/18 12:15 Received: 11/29/18 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00078	1	11/29/18 12:11	11/30/18 15:59	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	11/29/18 12:11	11/30/18 15:59	7440-38-2	
Barium	**0.020**	mg/L	0.010	0.00078	1	11/29/18 12:11	11/30/18 15:59	7440-39-3	
Beryllium	**0.0029J**	mg/L	0.0030	0.000050	1	11/29/18 12:11	11/30/18 15:59	7440-41-7	
Boron	**0.35**	mg/L	0.040	0.0039	1	11/29/18 12:11	11/30/18 15:59	7440-42-8	
Cadmium	**0.031**	mg/L	0.0010	0.000093	1	11/29/18 12:11	11/30/18 15:59	7440-43-9	
Calcium	**254**	mg/L	25.0	0.69	50	11/29/18 12:11	11/30/18 16:05	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	11/29/18 12:11	11/30/18 15:59	7440-47-3	
Cobalt	**1.4**	mg/L	0.50	0.026	50	11/29/18 12:11	11/30/18 16:05	7440-48-4	
Lead	ND	mg/L	0.0050	0.00027	1	11/29/18 12:11	11/30/18 15:59	7439-92-1	
Lithium	**0.041J**	mg/L	0.050	0.00097	1	11/29/18 12:11	11/30/18 15:59	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.0019	1	11/29/18 12:11	11/30/18 15:59	7439-98-7	
Selenium	**0.0017J**	mg/L	0.010	0.0014	1	11/29/18 12:11	11/30/18 15:59	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	11/29/18 12:11	11/30/18 15:59	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	12/03/18 09:23	12/03/18 14:11	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**2300**	mg/L	25.0	10.0	1		11/29/18 13:09		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**24.0**	mg/L	0.25	0.024	1		12/04/18 00:11	16887-00-6	
Fluoride	**0.41**	mg/L	0.30	0.029	1		12/04/18 00:11	16984-48-8	
Sulfate	**1780**	mg/L	50.0	0.85	50		12/04/18 04:20	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Branch
Pace Project No.: 2612012

Sample: BRGWC-52 **Lab ID: 2612012004** Collected: 11/28/18 14:35 Received: 11/29/18 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00078	1	11/29/18 12:11	11/30/18 16:16	7440-36-0	
Arsenic	**0.0016J**	mg/L	0.0050	0.00057	1	11/29/18 12:11	11/30/18 16:16	7440-38-2	
Barium	**0.017**	mg/L	0.010	0.00078	1	11/29/18 12:11	11/30/18 16:16	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	11/29/18 12:11	11/30/18 16:16	7440-41-7	
Boron	**1.5**	mg/L	0.040	0.0039	1	11/29/18 12:11	11/30/18 16:16	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	11/29/18 12:11	11/30/18 16:16	7440-43-9	
Calcium	**38.2**	mg/L	25.0	0.69	50	11/29/18 12:11	11/30/18 16:22	7440-70-2	M6
Chromium	ND	mg/L	0.010	0.0016	1	11/29/18 12:11	11/30/18 16:16	7440-47-3	
Cobalt	**0.0012J**	mg/L	0.010	0.00052	1	11/29/18 12:11	11/30/18 16:16	7440-48-4	
Lead	ND	mg/L	0.0050	0.00027	1	11/29/18 12:11	11/30/18 16:16	7439-92-1	
Lithium	**0.0052J**	mg/L	0.050	0.00097	1	11/29/18 12:11	11/30/18 16:16	7439-93-2	
Molybdenum	**0.0027J**	mg/L	0.010	0.0019	1	11/29/18 12:11	11/30/18 16:16	7439-98-7	
Selenium	ND	mg/L	0.010	0.0014	1	11/29/18 12:11	11/30/18 16:16	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	11/29/18 12:11	11/30/18 16:16	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	12/03/18 09:23	12/03/18 14:13	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**357**	mg/L	25.0	10.0	1		11/29/18 13:09		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**7.2**	mg/L	0.25	0.024	1		12/04/18 00:33	16887-00-6	
Fluoride	**0.24J**	mg/L	0.30	0.029	1		12/04/18 00:33	16984-48-8	
Sulfate	**189**	mg/L	10.0	0.17	10		12/06/18 11:07	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Branch
Pace Project No.: 2612012

Sample: FB-1 **Lab ID: 2612012005** Collected: 11/28/18 11:30 Received: 11/29/18 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	**0.00079J**	mg/L	0.0030	0.00078	1	11/29/18 12:11	11/30/18 17:08	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	11/29/18 12:11	11/30/18 17:08	7440-38-2	
Barium	**0.00090J**	mg/L	0.010	0.00078	1	11/29/18 12:11	11/30/18 17:08	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	11/29/18 12:11	11/30/18 17:08	7440-41-7	
Boron	**0.0075J**	mg/L	0.040	0.0039	1	11/29/18 12:11	11/30/18 17:08	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	11/29/18 12:11	11/30/18 17:08	7440-43-9	
Calcium	ND	mg/L	0.50	0.014	1	11/29/18 12:11	11/30/18 17:08	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	11/29/18 12:11	11/30/18 17:08	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	11/29/18 12:11	11/30/18 17:08	7440-48-4	
Lead	ND	mg/L	0.0050	0.00027	1	11/29/18 12:11	11/30/18 17:08	7439-92-1	
Lithium	ND	mg/L	0.050	0.00097	1	11/29/18 12:11	11/30/18 17:08	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.0019	1	11/29/18 12:11	11/30/18 17:08	7439-98-7	
Selenium	ND	mg/L	0.010	0.0014	1	11/29/18 12:11	11/30/18 17:08	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	11/29/18 12:11	11/30/18 17:08	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	12/03/18 09:23	12/03/18 14:16	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**11.0J**	mg/L	25.0	10.0	1		11/29/18 13:10		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**0.075J**	mg/L	0.25	0.024	1		12/04/18 00:56	16887-00-6	B
Fluoride	ND	mg/L	0.30	0.029	1		12/04/18 00:56	16984-48-8	
Sulfate	ND	mg/L	1.0	0.017	1		12/04/18 00:56	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Branch
Pace Project No.: 2612012

Sample: EB-1 **Lab ID: 2612012006** Collected: 11/28/18 16:45 Received: 11/29/18 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00078	1	11/29/18 12:11	11/30/18 17:14	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	11/29/18 12:11	11/30/18 17:14	7440-38-2	
Barium	**0.00088J**	mg/L	0.010	0.00078	1	11/29/18 12:11	11/30/18 17:14	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	11/29/18 12:11	11/30/18 17:14	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	11/29/18 12:11	11/30/18 17:14	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	11/29/18 12:11	11/30/18 17:14	7440-43-9	
Calcium	ND	mg/L	0.50	0.014	1	11/29/18 12:11	11/30/18 17:14	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	11/29/18 12:11	11/30/18 17:14	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	11/29/18 12:11	11/30/18 17:14	7440-48-4	
Lead	ND	mg/L	0.0050	0.00027	1	11/29/18 12:11	11/30/18 17:14	7439-92-1	
Lithium	ND	mg/L	0.050	0.00097	1	11/29/18 12:11	11/30/18 17:14	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.0019	1	11/29/18 12:11	11/30/18 17:14	7439-98-7	
Selenium	ND	mg/L	0.010	0.0014	1	11/29/18 12:11	11/30/18 17:14	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	11/29/18 12:11	11/30/18 17:14	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	12/03/18 09:23	12/03/18 15:40	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	ND	mg/L	25.0	10.0	1		11/29/18 13:10		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**0.098J**	mg/L	0.25	0.024	1		12/04/18 01:19	16887-00-6	B
Fluoride	ND	mg/L	0.30	0.029	1		12/04/18 01:19	16984-48-8	
Sulfate	ND	mg/L	1.0	0.017	1		12/04/18 01:19	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Branch
Pace Project No.: 2612012

Sample: FD-1 **Lab ID: 2612012007** Collected: 11/28/18 00:00 Received: 11/29/18 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00078	1	11/29/18 12:11	11/30/18 17:19	7440-36-0	
Arsenic	**0.0013J**	mg/L	0.0050	0.00057	1	11/29/18 12:11	11/30/18 17:19	7440-38-2	
Barium	**0.016**	mg/L	0.010	0.00078	1	11/29/18 12:11	11/30/18 17:19	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	11/29/18 12:11	11/30/18 17:19	7440-41-7	
Boron	**1.5**	mg/L	0.040	0.0039	1	11/29/18 12:11	11/30/18 17:19	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	11/29/18 12:11	11/30/18 17:19	7440-43-9	
Calcium	**38.7**	mg/L	25.0	0.69	50	11/29/18 12:11	11/30/18 17:30	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	11/29/18 12:11	11/30/18 17:19	7440-47-3	
Cobalt	**0.0011J**	mg/L	0.010	0.00052	1	11/29/18 12:11	11/30/18 17:19	7440-48-4	
Lead	ND	mg/L	0.0050	0.00027	1	11/29/18 12:11	11/30/18 17:19	7439-92-1	
Lithium	**0.0053J**	mg/L	0.050	0.00097	1	11/29/18 12:11	11/30/18 17:19	7439-93-2	
Molybdenum	**0.0027J**	mg/L	0.010	0.0019	1	11/29/18 12:11	11/30/18 17:19	7439-98-7	
Selenium	ND	mg/L	0.010	0.0014	1	11/29/18 12:11	11/30/18 17:19	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	11/29/18 12:11	11/30/18 17:19	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	12/03/18 09:23	12/03/18 15:42	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**336**	mg/L	25.0	10.0	1		11/29/18 13:11		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**7.2**	mg/L	0.25	0.024	1		12/04/18 01:41	16887-00-6	
Fluoride	**0.45**	mg/L	0.30	0.029	1		12/04/18 01:41	16984-48-8	
Sulfate	**190**	mg/L	10.0	0.17	10		12/04/18 05:05	14808-79-8	

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QUALITY CONTROL DATA

Project: Plant Branch
Pace Project No.: 2612012

QC Batch: 18062 Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
Associated Lab Samples: 2612012001, 2612012002, 2612012003, 2612012004, 2612012005, 2612012006, 2612012007

METHOD BLANK: 81216 Matrix: Water
Associated Lab Samples: 2612012001, 2612012002, 2612012003, 2612012004, 2612012005, 2612012006, 2612012007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00050	0.000036	12/03/18 13:17	

LABORATORY CONTROL SAMPLE: 81217

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	.0025	0.0022	88	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 81220 81221

Parameter	Units	2612012001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	.0025	.0025	0.0023	0.0023	93	93	75-125	0	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: Plant Branch
Pace Project No.: 2612012

QC Batch: 17933 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020B MET
Associated Lab Samples: 2612012001, 2612012002, 2612012003, 2612012004, 2612012005, 2612012006, 2612012007

METHOD BLANK: 80654 Matrix: Water
Associated Lab Samples: 2612012001, 2612012002, 2612012003, 2612012004, 2612012005, 2612012006, 2612012007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	11/30/18 14:50	
Arsenic	mg/L	ND	0.0050	0.00057	11/30/18 14:50	
Barium	mg/L	ND	0.010	0.00078	11/30/18 14:50	
Beryllium	mg/L	ND	0.0030	0.000050	11/30/18 14:50	
Boron	mg/L	ND	0.040	0.0039	11/30/18 14:50	
Cadmium	mg/L	ND	0.0010	0.000093	11/30/18 14:50	
Calcium	mg/L	ND	0.50	0.014	11/30/18 14:50	
Chromium	mg/L	ND	0.010	0.0016	11/30/18 14:50	
Cobalt	mg/L	ND	0.010	0.00052	11/30/18 14:50	
Lead	mg/L	ND	0.0050	0.00027	11/30/18 14:50	
Lithium	mg/L	ND	0.050	0.00097	11/30/18 14:50	
Molybdenum	mg/L	ND	0.010	0.0019	11/30/18 14:50	
Selenium	mg/L	ND	0.010	0.0014	11/30/18 14:50	
Thallium	mg/L	ND	0.0010	0.00014	11/30/18 14:50	

LABORATORY CONTROL SAMPLE: 80655

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	.1	0.10	101	80-120	
Arsenic	mg/L	.1	0.099	99	80-120	
Barium	mg/L	.1	0.099	99	80-120	
Beryllium	mg/L	.1	0.10	101	80-120	
Boron	mg/L	1	1.1	105	80-120	
Cadmium	mg/L	.1	0.10	100	80-120	
Calcium	mg/L	1	1.0	103	80-120	
Chromium	mg/L	.1	0.10	102	80-120	
Cobalt	mg/L	.1	0.10	101	80-120	
Lead	mg/L	.1	0.10	102	80-120	
Lithium	mg/L	.1	0.11	106	80-120	
Molybdenum	mg/L	.1	0.10	105	80-120	
Selenium	mg/L	.1	0.10	101	80-120	
Thallium	mg/L	.1	0.10	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 80656 80657

Parameter	Units	2612012004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	.1	.1	0.10	0.10	102	103	75-125	0	20	

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REPORT OF LABORATORY ANALYSIS

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110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Branch
Pace Project No.: 2612012

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 80656 80657

Parameter	Units	2612012004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	0.0016J	.1	.1	0.10	0.10	100	100	75-125	0	20	
Barium	mg/L	0.017	.1	.1	0.12	0.12	100	100	75-125	0	20	
Beryllium	mg/L	ND	.1	.1	0.091	0.091	91	91	75-125	0	20	
Boron	mg/L	1.5	1	1	2.4	2.6	91	107	75-125	6	20	
Cadmium	mg/L	ND	.1	.1	0.10	0.10	100	100	75-125	0	20	
Calcium	mg/L	38.2	1	1	40.2	41.7	201	353	75-125	4	20	M6
Chromium	mg/L	ND	.1	.1	0.10	0.10	102	102	75-125	0	20	
Cobalt	mg/L	0.0012J	.1	.1	0.10	0.10	99	102	75-125	3	20	
Lead	mg/L	ND	.1	.1	0.099	0.10	99	101	75-125	2	20	
Lithium	mg/L	0.0052J	.1	.1	0.10	0.10	95	98	75-125	2	20	
Molybdenum	mg/L	0.0027J	.1	.1	0.11	0.11	104	107	75-125	3	20	
Selenium	mg/L	ND	.1	.1	0.097	0.097	97	97	75-125	0	20	
Thallium	mg/L	ND	.1	.1	0.10	0.10	100	101	75-125	1	20	

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QUALITY CONTROL DATA

Project: Plant Branch
Pace Project No.: 2612012

QC Batch: 17944 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 2612012001, 2612012002, 2612012003, 2612012004, 2612012005, 2612012006, 2612012007

LABORATORY CONTROL SAMPLE: 80712

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	413	103	84-108	

SAMPLE DUPLICATE: 80713

Parameter	Units	2611908001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1040	1030	1	10	

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QUALITY CONTROL DATA

Project: Plant Branch
Pace Project No.: 2612012

QC Batch: 18109 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 2612012001, 2612012002, 2612012003, 2612012004, 2612012005, 2612012006, 2612012007

METHOD BLANK: 81424 Matrix: Water
Associated Lab Samples: 2612012001, 2612012002, 2612012003, 2612012004, 2612012005, 2612012006, 2612012007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	0.067J	0.25	0.024	12/03/18 21:55	
Fluoride	mg/L	ND	0.30	0.029	12/03/18 21:55	
Sulfate	mg/L	ND	1.0	0.017	12/03/18 21:55	

LABORATORY CONTROL SAMPLE: 81425

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	10	10.5	105	90-110	
Fluoride	mg/L	10	9.6	96	90-110	
Sulfate	mg/L	10	10.7	107	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 81426 81427

Parameter	Units	2612012001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	58.1	10	10	60.1	60.1	20	20	90-110	0	15	E,M1
Fluoride	mg/L	ND	10	10	9.7	9.7	97	97	90-110	0	15	
Sulfate	mg/L	133	10	10	103	103	-300	-300	90-110	0	15	E,M1

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QUALIFIERS

Project: Plant Branch
Pace Project No.: 2612012

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

B	Analyte was detected in the associated method blank.
E	Analyte concentration exceeded the calibration range. The reported result is estimated.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
M6	Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Branch
Pace Project No.: 2612012

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2612012001	**BRGWC-45**	EPA 3005A	17933	EPA 6020B	17956
2612012002	**BRGWC-47**	EPA 3005A	17933	EPA 6020B	17956
2612012003	**BRGWC-50**	EPA 3005A	17933	EPA 6020B	17956
2612012004	**BRGWC-52**	EPA 3005A	17933	EPA 6020B	17956
2612012005	**FB-1**	EPA 3005A	17933	EPA 6020B	17956
2612012006	**EB-1**	EPA 3005A	17933	EPA 6020B	17956
2612012007	**FD-1**	EPA 3005A	17933	EPA 6020B	17956
2612012001	**BRGWC-45**	EPA 7470A	18062	EPA 7470A	18094
2612012002	**BRGWC-47**	EPA 7470A	18062	EPA 7470A	18094
2612012003	**BRGWC-50**	EPA 7470A	18062	EPA 7470A	18094
2612012004	**BRGWC-52**	EPA 7470A	18062	EPA 7470A	18094
2612012005	**FB-1**	EPA 7470A	18062	EPA 7470A	18094
2612012006	**EB-1**	EPA 7470A	18062	EPA 7470A	18094
2612012007	**FD-1**	EPA 7470A	18062	EPA 7470A	18094
2612012001	**BRGWC-45**	SM 2540C	17944		
2612012002	**BRGWC-47**	SM 2540C	17944		
2612012003	**BRGWC-50**	SM 2540C	17944		
2612012004	**BRGWC-52**	SM 2540C	17944		
2612012005	**FB-1**	SM 2540C	17944		
2612012006	**EB-1**	SM 2540C	17944		
2612012007	**FD-1**	SM 2540C	17944		
2612012001	**BRGWC-45**	EPA 300.0	18109		
2612012002	**BRGWC-47**	EPA 300.0	18109		
2612012003	**BRGWC-50**	EPA 300.0	18109		
2612012004	**BRGWC-52**	EPA 300.0	18109		
2612012005	**FB-1**	EPA 300.0	18109		
2612012006	**EB-1**	EPA 300.0	18109		
2612012007	**FD-1**	EPA 300.0	18109		

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WO# : 2612012

2612012

CHAIN OF CUSTODY RECORD

Pace Analytical

Pace Analytical Services, Inc.
110 TECHNOLOGY PARKWAY, PEACHTREE CORNERS, GA 30092
(770) 734-4200 : FAX (770) 734-4201 : www.asi-lab.com

CLIENT NAME: Georgia Power

CLIENT ADDRESS/PHONE NUMBER/FAX NUMBER:
241 Ralph McGill Blvd SE B10185
Atlanta, GA 30308
404-506-7239

REPORT TO: Dawn Prell (Dawn_Prell@golder.com)
CC: rachel_kirkman@golder.com
REQUESTED COMPLETION DATE: Standard TAT
PO #: laburch@southernco.com
PROJECT NAME/STATE: Plant Branch
PROJECT #: Phase II CCR

ANALYSIS REQUESTED

Collection DATE	Collection TIME	MATRIX CODE*	COMP	GRAB	SAMPLE IDENTIFICATION	# of CONTAINERS		Metals App. III & IV (EPA 6020/7470)	Cl, F, SO_4 & TDS (EPA 300.0 & SM 2540C)	Radium 226 & 228 (SW-846 9315/9320)							LAB ID NUMBER
CONTAINER PRESERVATION								P 3&7	P 7	P 3&7							
11/28/18	1605	GW		x	BRGWC-45	4		X	X	X							
11/28/18	1105	GW		x	BRGWC-47	4		X	X	X							
11/28/18	1215	GW		x	BRGWC-50	6		X	X	X							Extra Radium
11/28/18	1435	GW		x	BRGWC-52	4		X	X	X							
11/28/18	1130	W		x	FB-1	4		X	X	X							
11/28/18	1645	W		x	EB-1	4		X	X	X							
11/28/18	--	GW		X	FD-1	4		X	X	X							

CONTAINER TYPE: P - PLASTIC; A - AMBER GLASS; G - CLEAR GLASS; V - VOA VIAL; S - STERILE; O - OTHER

PRESERVATION: 1 - HCl, ≤6°C; 2 - H_2SO_4, ≤6°C; 3 - HNO_3; 4 - NaOH, ≤6°C; 5 - NaOH/ZnAc, ≤6°C; 6 - $Na_2S_2O_3$, ≤6°C; 7 - ≤6°C not frozen

*MATRIX CODES: DW - DRINKING WATER; WW - WASTEWATER; GW - GROUNDWATER; SW - SURFACE WATER; ST - STORM WATER; W - WATER; S - SOIL; SL - SLUDGE; SD - SOLID; A - AIR; L - LIQUID; P - PRODUCT

REMARKS/ADDITIONAL INFORMATION

SAMPLED BY AND TITLE: Karen Mercer
DATE/TIME: 11-29-18 / 900
RELINQUISHED BY: Karen Mercer
DATE/TIME: 11-29-18 / 0900
RECEIVED BY:
DATE/TIME:
RELINQUISHED BY:
DATE/TIME:
RECEIVED BY LAB: Rachel Kirkman
DATE/TIME: 11/29/18 0900
SAMPLE SHIPPED VIA: UPS FED-EX USPS COURIER CLIENT OTHER FS
Cooler Checked: Yes No NA
Ice: Yes No NA
Temperature: Min: 2.0 Max:
Custody Seal: Intact Broken Not Present
# of Coolers:
Cooler ID:

FOR LAB USE ONLY
LAB #:
Entered into LIMS:
Tracking #:

Sample Condition Upon Receipt

Face Analytical

Client Name: GA Power

Project #

WO#: 2612012

PM: BM **Due Date: 12/06/18**

CLIENT: GAPower-CCR

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Commercial ☐ Pace ☐ Other

Tracking #:

Custody Seal on Cooler/Box Present: ☑ yes ☐ no Seals intact: ☑ yes

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Thermometer Used 83 **Type of Ice:** Wet Blue None

Cooler Temperature 2.0 **Biological Tissue is Frozen:** Yes No

Temp should be above freezing to 6°C

☐ Samples on ice, cooling process has begun

Date and Initials of person examining contents: 11/29/18 MK

				Comments:
Chain of Custody Present:	☑ Yes	☐ No	☐ N/A	1.
Chain of Custody Filled Out:	☑ Yes	☐ No	☐ N/A	2.
Chain of Custody Relinquished:	☑ Yes	☐ No	☐ N/A	3.
Sampler Name & Signature on COC:	☑ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time:	☑ Yes	☐ No	☐ N/A	5.
Short Hold Time Analysis (<72hr):	☐ Yes	☑ No	☐ N/A	6.
Rush Turn Around Time Requested:	☐ Yes	☑ No	☐ N/A	7.
Sufficient Volume:	☑ Yes	☐ No	☐ N/A	8.
Correct Containers Used:	☑ Yes	☐ No	☐ N/A	9.
-Pace Containers Used:	☑ Yes	☐ No	☐ N/A	
Containers Intact:	☑ Yes	☐ No	☐ N/A	10.
Filtered volume received for Dissolved tests	☐ Yes	☐ No	☑ N/A	11.
Sample Labels match COC:	☐ Yes	☐ No	☐ N/A	12.
-Includes date/time/ID/Analysis Matrix: W				
All containers needing preservation have been checked.	☑ Yes	☐ No	☐ N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑ Yes	☐ No	☐ N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐ Yes	☑ No		Initial when completed: Lot # of added preservative:
Samples checked for dechlorination:	☐ Yes	☐ No	☑ N/A	14.
Headspace in VOA Vials (>6mm):	☐ Yes	☐ No	☑ N/A	15.
Trip Blank Present:	☐ Yes	☐ No	☑ N/A	16.
Trip Blank Custody Seals Present	☐ Yes	☐ No	☑ N/A	
Pace Trip Blank Lot # (if purchased):				

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: **Date:**

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

November 06, 2018

Joju Abraham
Georgia Power - Coal Combustion Residuals
2480 Maner Road
Atlanta, GA 30339

RE: Project: Plant Branch Pond BCD
Pace Project No.: 2610944

Dear Joju Abraham:
Enclosed are the analytical results for sample(s) received by the laboratory on October 29, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Betsy McDaniel
betsy.mcdaniel@pacelabs.com
(770)734-4200
Project Manager

Enclosures

cc: Kristen Jurinko, Golder Associates Inc.
Julie Lehrman, Golder Associates Inc.
Maria Padilla, Georgia Power
Dawn Prell, Golder Associates Inc.
Eric Rolle, Georgia Power - Coal Combustion Residuals
Rebecca Thornton, Pace Analytical Atlanta

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CERTIFICATIONS

Project: Plant Branch Pond BCD
Pace Project No.: 2610944

Atlanta Certification IDs

110 Technology Parkway Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
Georgia DW Microbiology Certification #: 812
North Carolina Certification #: 381
South Carolina Certification #: 98011001
Texas Certification #: T104704397-08-TX
Virginia Certification #: 460204

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SAMPLE SUMMARY

Project: Plant Branch Pond BCD
Pace Project No.: 2610944

Lab ID	Sample ID	Matrix	Date Collected	Date Received
2610944001	**BRGWC-45**	Water	10/29/18 10:50	10/29/18 17:32
2610944002	**BRGWC-47**	Water	10/29/18 09:35	10/29/18 17:32
2610944003	**BRGWC-52**	Water	10/29/18 14:00	10/29/18 17:32
2610944004	**BRGWC-50**	Water	10/29/18 13:00	10/29/18 17:32
2610944005	**FB-1**	Water	10/29/18 09:10	10/29/18 17:32
2610944006	**EB-1**	Water	10/29/18 15:00	10/29/18 17:32
2610944007	**FD-1**	Water	10/29/18 00:00	10/29/18 17:32

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SAMPLE ANALYTE COUNT

Project: Plant Branch Pond BCD
Pace Project No.: 2610944

Lab ID	Sample ID	Method	Analysts	Analytes Reported
2610944001	**BRGWC-45**	EPA 6020B	CSW	14
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3
2610944002	**BRGWC-47**	EPA 6020B	CSW	14
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3
2610944003	**BRGWC-52**	EPA 6020B	CSW	14
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	MWB, RLC	3
2610944004	**BRGWC-50**	EPA 6020B	CSW	14
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3
2610944005	**FB-1**	EPA 6020B	CSW	14
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3
2610944006	**EB-1**	EPA 6020B	CSW	14
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3
2610944007	**FD-1**	EPA 6020B	CSW	14
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3

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ANALYTICAL RESULTS

Project: Plant Branch Pond BCD
Pace Project No.: 2610944

Sample: BRGWC-45 **Lab ID: 2610944001** Collected: 10/29/18 10:50 Received: 10/29/18 17:32 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00078	1	11/01/18 08:53	11/02/18 18:18	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	11/01/18 08:53	11/02/18 18:18	7440-38-2	
Barium	**0.098**	mg/L	0.010	0.00078	1	11/01/18 08:53	11/02/18 18:18	7440-39-3	M1
Beryllium	ND	mg/L	0.0030	0.000050	1	11/01/18 08:53	11/02/18 18:18	7440-41-7	
Boron	**0.021J**	mg/L	0.040	0.0039	1	11/01/18 08:53	11/02/18 18:18	7440-42-8	
Cadmium	**0.000098J**	mg/L	0.0010	0.000093	1	11/01/18 08:53	11/02/18 18:18	7440-43-9	
Calcium	**40.8**	mg/L	25.0	0.69	50	11/01/18 08:53	11/02/18 18:24	7440-70-2	M6
Chromium	ND	mg/L	0.010	0.0016	1	11/01/18 08:53	11/02/18 18:18	7440-47-3	
Cobalt	**0.0064J**	mg/L	0.010	0.00052	1	11/01/18 08:53	11/02/18 18:18	7440-48-4	
Lead	ND	mg/L	0.0050	0.00027	1	11/01/18 08:53	11/02/18 18:18	7439-92-1	
Lithium	**0.0030J**	mg/L	0.050	0.00097	1	11/01/18 08:53	11/02/18 18:18	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.0019	1	11/01/18 08:53	11/02/18 18:18	7439-98-7	
Selenium	ND	mg/L	0.010	0.0014	1	11/01/18 08:53	11/02/18 18:18	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	11/01/18 08:53	11/02/18 18:18	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	11/01/18 09:16	11/01/18 14:26	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**329**	mg/L	25.0	10.0	1		11/01/18 18:35		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**62.6**	mg/L	1.2	0.12	5		11/02/18 04:01	16887-00-6	M1
Fluoride	ND	mg/L	0.30	0.029	1		11/01/18 23:06	16984-48-8	
Sulfate	**127**	mg/L	5.0	0.085	5		11/02/18 04:01	14808-79-8	M1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Branch Pond BCD
Pace Project No.: 2610944

Sample: BRGWC-47 **Lab ID: 2610944002** Collected: 10/29/18 09:35 Received: 10/29/18 17:32 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00078	1	11/01/18 08:53	11/02/18 19:10	7440-36-0	
Arsenic	**0.0012J**	mg/L	0.0050	0.00057	1	11/01/18 08:53	11/02/18 19:10	7440-38-2	
Barium	**0.041**	mg/L	0.010	0.00078	1	11/01/18 08:53	11/02/18 19:10	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	11/01/18 08:53	11/02/18 19:10	7440-41-7	
Boron	**0.40**	mg/L	0.040	0.0039	1	11/01/18 08:53	11/02/18 19:10	7440-42-8	
Cadmium	**0.00019J**	mg/L	0.0010	0.000093	1	11/01/18 08:53	11/02/18 19:10	7440-43-9	
Calcium	**326**	mg/L	25.0	0.69	50	11/01/18 08:53	11/02/18 19:16	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	11/01/18 08:53	11/02/18 19:10	7440-47-3	
Cobalt	**0.0014J**	mg/L	0.010	0.00052	1	11/01/18 08:53	11/02/18 19:10	7440-48-4	
Lead	ND	mg/L	0.0050	0.00027	1	11/01/18 08:53	11/02/18 19:10	7439-92-1	
Lithium	**0.039J**	mg/L	0.050	0.00097	1	11/01/18 08:53	11/02/18 19:10	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.0019	1	11/01/18 08:53	11/02/18 19:10	7439-98-7	
Selenium	ND	mg/L	0.010	0.0014	1	11/01/18 08:53	11/02/18 19:10	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	11/01/18 08:53	11/02/18 19:10	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	11/01/18 09:16	11/01/18 14:35	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**2130**	mg/L	25.0	10.0	1		11/01/18 18:35		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**4.3**	mg/L	0.25	0.024	1		11/02/18 00:14	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		11/02/18 00:14	16984-48-8	
Sulfate	**1720**	mg/L	50.0	0.85	50		11/02/18 04:23	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Branch Pond BCD
Pace Project No.: 2610944

Sample: BRGWC-52 **Lab ID: 2610944003** Collected: 10/29/18 14:00 Received: 10/29/18 17:32 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00078	1	11/01/18 08:53	11/02/18 19:21	7440-36-0	
Arsenic	**0.0038J**	mg/L	0.0050	0.00057	1	11/01/18 08:53	11/02/18 19:21	7440-38-2	
Barium	**0.025**	mg/L	0.010	0.00078	1	11/01/18 08:53	11/02/18 19:21	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	11/01/18 08:53	11/02/18 19:21	7440-41-7	
Boron	**1.3**	mg/L	0.040	0.0039	1	11/01/18 08:53	11/02/18 19:21	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	11/01/18 08:53	11/02/18 19:21	7440-43-9	
Calcium	**39.8**	mg/L	25.0	0.69	50	11/01/18 08:53	11/02/18 19:27	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	11/01/18 08:53	11/02/18 19:21	7440-47-3	
Cobalt	**0.0015J**	mg/L	0.010	0.00052	1	11/01/18 08:53	11/02/18 19:21	7440-48-4	
Lead	ND	mg/L	0.0050	0.00027	1	11/01/18 08:53	11/02/18 19:21	7439-92-1	
Lithium	**0.0048J**	mg/L	0.050	0.00097	1	11/01/18 08:53	11/02/18 19:21	7439-93-2	
Molybdenum	**0.0065J**	mg/L	0.010	0.0019	1	11/01/18 08:53	11/02/18 19:21	7439-98-7	
Selenium	ND	mg/L	0.010	0.0014	1	11/01/18 08:53	11/02/18 19:21	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	11/01/18 08:53	11/02/18 19:21	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	11/01/18 09:16	11/01/18 14:38	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**334**	mg/L	25.0	10.0	1		11/01/18 18:35		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**7.8**	mg/L	0.25	0.024	1		11/02/18 00:37	16887-00-6	
Fluoride	**0.14J**	mg/L	0.30	0.029	1		11/02/18 00:37	16984-48-8	
Sulfate	**157**	mg/L	50.0	0.85	50		11/06/18 00:50	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Branch Pond BCD
Pace Project No.: 2610944

Sample: BRGWC-50 **Lab ID: 2610944004** Collected: 10/29/18 13:00 Received: 10/29/18 17:32 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00078	1	11/01/18 08:53	11/02/18 19:33	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	11/01/18 08:53	11/02/18 19:33	7440-38-2	
Barium	**0.019**	mg/L	0.010	0.00078	1	11/01/18 08:53	11/02/18 19:33	7440-39-3	
Beryllium	**0.0042**	mg/L	0.0030	0.000050	1	11/01/18 08:53	11/06/18 14:50	7440-41-7	
Boron	**0.30**	mg/L	0.040	0.0039	1	11/01/18 08:53	11/06/18 14:50	7440-42-8	
Cadmium	**0.083**	mg/L	0.0010	0.000093	1	11/01/18 08:53	11/02/18 19:33	7440-43-9	
Calcium	**236**	mg/L	25.0	0.69	50	11/01/18 08:53	11/02/18 19:38	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	11/01/18 08:53	11/02/18 19:33	7440-47-3	
Cobalt	**1.4**	mg/L	0.010	0.00052	1	11/01/18 08:53	11/02/18 19:33	7440-48-4	
Lead	**0.00030J**	mg/L	0.0050	0.00027	1	11/01/18 08:53	11/02/18 19:33	7439-92-1	
Lithium	**0.041J**	mg/L	0.050	0.00097	1	11/01/18 08:53	11/06/18 14:50	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.0019	1	11/01/18 08:53	11/02/18 19:33	7439-98-7	
Selenium	**0.0020J**	mg/L	0.010	0.0014	1	11/01/18 08:53	11/02/18 19:33	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	11/01/18 08:53	11/02/18 19:33	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	11/01/18 09:16	11/01/18 14:40	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**2300**	mg/L	25.0	10.0	1		11/01/18 18:35		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**24.9**	mg/L	0.25	0.024	1		11/02/18 00:59	16887-00-6	
Fluoride	**0.24J**	mg/L	0.30	0.029	1		11/02/18 00:59	16984-48-8	
Sulfate	**1750**	mg/L	50.0	0.85	50		11/02/18 04:46	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Branch Pond BCD
Pace Project No.: 2610944

Sample: FB-1 **Lab ID: 2610944005** Collected: 10/29/18 09:10 Received: 10/29/18 17:32 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00078	1	11/01/18 08:53	11/02/18 19:44	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	11/01/18 08:53	11/02/18 19:44	7440-38-2	
Barium	ND	mg/L	0.010	0.00078	1	11/01/18 08:53	11/02/18 19:44	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	11/01/18 08:53	11/02/18 19:44	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	11/01/18 08:53	11/02/18 19:44	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	11/01/18 08:53	11/02/18 19:44	7440-43-9	
Calcium	**0.018J**	mg/L	0.50	0.014	1	11/01/18 08:53	11/02/18 19:44	7440-70-2	B
Chromium	ND	mg/L	0.010	0.0016	1	11/01/18 08:53	11/02/18 19:44	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	11/01/18 08:53	11/02/18 19:44	7440-48-4	
Lead	ND	mg/L	0.0050	0.00027	1	11/01/18 08:53	11/02/18 19:44	7439-92-1	
Lithium	ND	mg/L	0.050	0.00097	1	11/01/18 08:53	11/02/18 19:44	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.0019	1	11/01/18 08:53	11/02/18 19:44	7439-98-7	
Selenium	ND	mg/L	0.010	0.0014	1	11/01/18 08:53	11/02/18 19:44	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	11/01/18 08:53	11/02/18 19:44	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	11/01/18 09:16	11/01/18 14:47	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	ND	mg/L	25.0	10.0	1		11/01/18 18:35		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	ND	mg/L	0.25	0.024	1		11/02/18 01:22	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		11/02/18 01:22	16984-48-8	
Sulfate	**0.098J**	mg/L	1.0	0.017	1		11/02/18 01:22	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Branch Pond BCD
Pace Project No.: 2610944

Sample: EB-1 **Lab ID: 2610944006** Collected: 10/29/18 15:00 Received: 10/29/18 17:32 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00078	1	11/01/18 08:53	11/02/18 19:50	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	11/01/18 08:53	11/02/18 19:50	7440-38-2	
Barium	ND	mg/L	0.010	0.00078	1	11/01/18 08:53	11/02/18 19:50	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	11/01/18 08:53	11/02/18 19:50	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	11/01/18 08:53	11/02/18 19:50	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	11/01/18 08:53	11/02/18 19:50	7440-43-9	
Calcium	**0.017J**	mg/L	0.50	0.014	1	11/01/18 08:53	11/02/18 19:50	7440-70-2	B
Chromium	ND	mg/L	0.010	0.0016	1	11/01/18 08:53	11/02/18 19:50	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	11/01/18 08:53	11/02/18 19:50	7440-48-4	
Lead	ND	mg/L	0.0050	0.00027	1	11/01/18 08:53	11/02/18 19:50	7439-92-1	
Lithium	ND	mg/L	0.050	0.00097	1	11/01/18 08:53	11/02/18 19:50	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.0019	1	11/01/18 08:53	11/02/18 19:50	7439-98-7	
Selenium	ND	mg/L	0.010	0.0014	1	11/01/18 08:53	11/02/18 19:50	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	11/01/18 08:53	11/02/18 19:50	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	11/01/18 09:16	11/01/18 14:50	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	ND	mg/L	25.0	10.0	1		11/01/18 18:35		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	ND	mg/L	0.25	0.024	1		11/02/18 01:45	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		11/02/18 01:45	16984-48-8	
Sulfate	ND	mg/L	1.0	0.017	1		11/02/18 01:45	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Branch Pond BCD
Pace Project No.: 2610944

Sample: FD-1 **Lab ID: 2610944007** Collected: 10/29/18 00:00 Received: 10/29/18 17:32 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00078	1	11/01/18 08:53	11/02/18 19:56	7440-36-0	
Arsenic	**0.0029J**	mg/L	0.0050	0.00057	1	11/01/18 08:53	11/02/18 19:56	7440-38-2	
Barium	**0.025**	mg/L	0.010	0.00078	1	11/01/18 08:53	11/02/18 19:56	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	11/01/18 08:53	11/02/18 19:56	7440-41-7	
Boron	**1.3**	mg/L	0.040	0.0039	1	11/01/18 08:53	11/02/18 19:56	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	11/01/18 08:53	11/02/18 19:56	7440-43-9	
Calcium	**40.3**	mg/L	25.0	0.69	50	11/01/18 08:53	11/02/18 20:01	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	11/01/18 08:53	11/02/18 19:56	7440-47-3	
Cobalt	**0.0015J**	mg/L	0.010	0.00052	1	11/01/18 08:53	11/02/18 19:56	7440-48-4	
Lead	ND	mg/L	0.0050	0.00027	1	11/01/18 08:53	11/02/18 19:56	7439-92-1	
Lithium	**0.0047J**	mg/L	0.050	0.00097	1	11/01/18 08:53	11/02/18 19:56	7439-93-2	
Molybdenum	**0.0063J**	mg/L	0.010	0.0019	1	11/01/18 08:53	11/02/18 19:56	7439-98-7	
Selenium	ND	mg/L	0.010	0.0014	1	11/01/18 08:53	11/02/18 19:56	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	11/01/18 08:53	11/02/18 19:56	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	11/01/18 09:16	11/01/18 14:52	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**330**	mg/L	25.0	10.0	1		11/01/18 18:35		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**7.7**	mg/L	0.25	0.024	1		11/02/18 02:07	16887-00-6	
Fluoride	**0.13J**	mg/L	0.30	0.029	1		11/02/18 02:07	16984-48-8	
Sulfate	**183**	mg/L	50.0	0.85	50		11/02/18 05:08	14808-79-8	

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QUALITY CONTROL DATA

Project: Plant Branch Pond BCD
Pace Project No.: 2610944

QC Batch: 16397 Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
Associated Lab Samples: 2610944001, 2610944002, 2610944003, 2610944004, 2610944005, 2610944006, 2610944007

METHOD BLANK: 73390 Matrix: Water
Associated Lab Samples: 2610944001, 2610944002, 2610944003, 2610944004, 2610944005, 2610944006, 2610944007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00050	0.000036	11/01/18 14:21	

LABORATORY CONTROL SAMPLE: 73391

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	.0025	0.0025	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 73392 73393

Parameter	Units	2610944001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	.0025	.0025	0.0023	0.0023	94	94	75-125	0	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: Plant Branch Pond BCD
Pace Project No.: 2610944

QC Batch: 16395 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020B MET
Associated Lab Samples: 2610944001, 2610944002, 2610944003, 2610944004, 2610944005, 2610944006, 2610944007

METHOD BLANK: 73386 Matrix: Water
Associated Lab Samples: 2610944001, 2610944002, 2610944003, 2610944004, 2610944005, 2610944006, 2610944007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	11/02/18 18:07	
Arsenic	mg/L	ND	0.0050	0.00057	11/02/18 18:07	
Barium	mg/L	ND	0.010	0.00078	11/02/18 18:07	
Beryllium	mg/L	ND	0.0030	0.000050	11/02/18 18:07	
Boron	mg/L	ND	0.040	0.0039	11/02/18 18:07	
Cadmium	mg/L	ND	0.0010	0.000093	11/02/18 18:07	
Calcium	mg/L	0.015J	0.50	0.014	11/02/18 18:07	
Chromium	mg/L	ND	0.010	0.0016	11/02/18 18:07	
Cobalt	mg/L	ND	0.010	0.00052	11/02/18 18:07	
Lead	mg/L	ND	0.0050	0.00027	11/02/18 18:07	
Lithium	mg/L	ND	0.050	0.00097	11/02/18 18:07	
Molybdenum	mg/L	ND	0.010	0.0019	11/02/18 18:07	
Selenium	mg/L	ND	0.010	0.0014	11/02/18 18:07	
Thallium	mg/L	ND	0.0010	0.00014	11/02/18 18:07	

LABORATORY CONTROL SAMPLE: 73387

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	.1	0.11	106	80-120	
Arsenic	mg/L	.1	0.10	100	80-120	
Barium	mg/L	.1	0.10	103	80-120	
Beryllium	mg/L	.1	0.098	98	80-120	
Boron	mg/L	1	1.0	105	80-120	
Cadmium	mg/L	.1	0.10	104	80-120	
Calcium	mg/L	1	1.0	100	80-120	
Chromium	mg/L	.1	0.10	103	80-120	
Cobalt	mg/L	.1	0.10	102	80-120	
Lead	mg/L	.1	0.10	102	80-120	
Lithium	mg/L	.1	0.099	99	80-120	
Molybdenum	mg/L	.1	0.10	104	80-120	
Selenium	mg/L	.1	0.10	103	80-120	
Thallium	mg/L	.1	0.099	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 73388 73389

Parameter	Units	2610944001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	.1	.1	0.11	0.11	112	109	75-125	3	20	

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REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Branch Pond BCD
Pace Project No.: 2610944

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 73388 73389

Parameter	Units	2610944001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	ND	.1	.1	0.10	0.10	103	103	75-125	0	20	
Barium	mg/L	0.098	.1	.1	0.23	0.22	129	126	75-125	1	20	M1
Beryllium	mg/L	ND	.1	.1	0.094	0.094	94	94	75-125	0	20	
Boron	mg/L	0.021J	1	1	0.94	0.94	92	92	75-125	0	20	
Cadmium	mg/L	0.000098J	.1	.1	0.11	0.10	106	102	75-125	4	20	
Calcium	mg/L	40.8	1	1	46.2	45.3	533	445	75-125	2	20	M6
Chromium	mg/L	ND	.1	.1	0.11	0.11	107	107	75-125	0	20	
Cobalt	mg/L	0.0064J	.1	.1	0.11	0.11	107	105	75-125	2	20	
Lead	mg/L	ND	.1	.1	0.10	0.10	103	101	75-125	2	20	
Lithium	mg/L	0.0030J	.1	.1	0.093	0.093	90	90	75-125	0	20	
Molybdenum	mg/L	ND	.1	.1	0.11	0.11	108	107	75-125	1	20	
Selenium	mg/L	ND	.1	.1	0.10	0.10	101	102	75-125	2	20	
Thallium	mg/L	ND	.1	.1	0.10	0.10	102	100	75-125	2	20	

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QUALITY CONTROL DATA

Project: Plant Branch Pond BCD
Pace Project No.: 2610944

QC Batch: 16469 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 2610944001, 2610944002, 2610944003, 2610944004, 2610944005, 2610944006, 2610944007

LABORATORY CONTROL SAMPLE: 73760

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	404	101	84-108	

SAMPLE DUPLICATE: 73761

Parameter	Units	2611010001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	52.0	41.0	24	10	D6

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QUALITY CONTROL DATA

Project: Plant Branch Pond BCD
Pace Project No.: 2610944

QC Batch: 16403 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 2610944001, 2610944002, 2610944003, 2610944004, 2610944005, 2610944006, 2610944007

METHOD BLANK: 73413 Matrix: Water
Associated Lab Samples: 2610944001, 2610944002, 2610944003, 2610944004, 2610944005, 2610944006, 2610944007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	0.024	11/01/18 22:21	
Fluoride	mg/L	ND	0.30	0.029	11/01/18 22:21	
Sulfate	mg/L	ND	1.0	0.017	11/01/18 22:21	

LABORATORY CONTROL SAMPLE: 73414

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	10	10.6	106	90-110	
Fluoride	mg/L	10	9.8	98	90-110	
Sulfate	mg/L	10	10.7	107	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 73415 73416

Parameter	Units	2610944001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	62.6	10	10	63.3	63.6	7	10	90-110	1	15	E,M1
Fluoride	mg/L	ND	10	10	10.5	10.5	105	105	90-110	1	15	
Sulfate	mg/L	127	10	10	104	104	-226	-225	90-110	0	15	E,M1

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QUALIFIERS

Project: Plant Branch Pond BCD
Pace Project No.: 2610944

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

B	Analyte was detected in the associated method blank.
D6	The precision between the sample and sample duplicate exceeded laboratory control limits.
E	Analyte concentration exceeded the calibration range. The reported result is estimated.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
M6	Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Branch Pond BCD
Pace Project No.: 2610944

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2610944001	**BRGWC-45**	EPA 3005A	16395	EPA 6020B	16437
2610944002	**BRGWC-47**	EPA 3005A	16395	EPA 6020B	16437
2610944003	**BRGWC-52**	EPA 3005A	16395	EPA 6020B	16437
2610944004	**BRGWC-50**	EPA 3005A	16395	EPA 6020B	16437
2610944005	**FB-1**	EPA 3005A	16395	EPA 6020B	16437
2610944006	**EB-1**	EPA 3005A	16395	EPA 6020B	16437
2610944007	**FD-1**	EPA 3005A	16395	EPA 6020B	16437
2610944001	**BRGWC-45**	EPA 7470A	16397	EPA 7470A	16440
2610944002	**BRGWC-47**	EPA 7470A	16397	EPA 7470A	16440
2610944003	**BRGWC-52**	EPA 7470A	16397	EPA 7470A	16440
2610944004	**BRGWC-50**	EPA 7470A	16397	EPA 7470A	16440
2610944005	**FB-1**	EPA 7470A	16397	EPA 7470A	16440
2610944006	**EB-1**	EPA 7470A	16397	EPA 7470A	16440
2610944007	**FD-1**	EPA 7470A	16397	EPA 7470A	16440
2610944001	**BRGWC-45**	SM 2540C	16469		
2610944002	**BRGWC-47**	SM 2540C	16469		
2610944003	**BRGWC-52**	SM 2540C	16469		
2610944004	**BRGWC-50**	SM 2540C	16469		
2610944005	**FB-1**	SM 2540C	16469		
2610944006	**EB-1**	SM 2540C	16469		
2610944007	**FD-1**	SM 2540C	16469		
2610944001	**BRGWC-45**	EPA 300.0	16403		
2610944002	**BRGWC-47**	EPA 300.0	16403		
2610944003	**BRGWC-52**	EPA 300.0	16403		
2610944004	**BRGWC-50**	EPA 300.0	16403		
2610944005	**FB-1**	EPA 300.0	16403		
2610944006	**EB-1**	EPA 300.0	16403		
2610944007	**FD-1**	EPA 300.0	16403		

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CHAIN OF CUSTODY RECORD

Pace Analytical

Pace Analytical Services, Inc.
110 TECHNOLOGY PARKWAY, PEACHTREE CORNERS, GA 30092
(770) 734-4200 : FAX (770) 734-4201 : www.asi-lab.com

CLIENT NAME:
Georgia Power

CLIENT ADDRESS/PHONE NUMBER/FAX NUMBER:
241 Ralph McGill Blvd SE B10185
Atlanta, GA 30308
404-506-7239

REPORT TO:
Dawn Prell (Dawn_Prell@golder.com)

CC:
rachel_kirkman@golder.com

REQUESTED COMPLETION DATE:
Standard TAT

PO #:
laburch@southernco.com

PROJECT NAME/STATE:
Plant Branch Pond BCD

PROJECT #:
Phase II CCR

ANALYSIS REQUESTED

Collection DATE	Collection TIME	MATRIX CODE*	COMP	GRAB	SAMPLE IDENTIFICATION	# of CONTAINERS	Metals App III & IV (EPA 6020/7470)	Cl, F, SO_4, & TDS (EPA 300 0 & SM 2540C)	Radium 226 & 228 (SW-846 9315/9320)	LAB ID NUMBER	REMARKS/ADDITIONAL INFORMATION
	CONTAINER TYPE						P	P	P		
	PRESERVATION						3&7	7	3&7		
10/29/18	1050	GW		x	BRGWC-45		X	X	X	1	Extra Radium
10/29/18	0935	GW		x	BRGWC-47		X	X	X	2	
10/29/18	1400	GW		x	BRGWC-52		X	X	X	3	
10/29/18	1300	GW		x	~~PZ-50~~ BRGWC-50		X	X	X	4	
10/29/18	0910	W		x	FB-1		X	X	X	5	
10/29/18	1500	W		x	EB-1		X	X	X	6	
10/29/18	—	GW		X	FD-1		X	X	X	7	

CONTAINER TYPE / PRESERVATION

CONTAINER TYPE	PRESERVATION
P - PLASTIC	1 - HCl, ≤6°C
A - AMBER GLASS	2 - H_2SO_4, ≤6°C
G - CLEAR GLASS	3 - HNO_3
V - VOA VIAL	4 - NaOH, ≤6°C
S - STERILE	5 - NaOH/ZnAc, ≤6°C
O - OTHER	6 - $Na_2S_2O_3$, ≤6°C
	7 - ≤6°C not frozen

*MATRIX CODES:

DW - DRINKING WATER	S - SOIL
WW - WASTEWATER	SL - SLUDGE
GW - GROUNDWATER	SD - SOLID
SW - SURFACE WATER	A - AIR
ST - STORM WATER	L - LIQUID
W - WATER	P - PRODUCT

SAMPLED BY AND TITLE:
[signature]

DATE/TIME:
10/29/2018

RELINQUISHED BY:
[signature]

DATE/TIME:
10-29-18 / 1732

RECEIVED BY:

DATE/TIME:

RELINQUISHED BY:

DATE/TIME:

RECEIVED BY/LAB:
[signature]

DATE/TIME:
10/29/18 1732

SAMPLE SHIPPED VIA:
UPS FED-EX USPS COURIER CLIENT OTHER FS

pH checked: Yes No NA

Ice: Yes No NA

Temperature: Min: 0.5°C Max:

Custody Seal: Intact Broken Not Present

# of Coolers:

Cooler ID:

FOR LAB USE ONLY
LAB #:
Entered into LIMS:
Tracking #:

WO# : 2610944

2610944

Plant Branch COC (App III and IV)

Sample Condition Upon Receipt

Pace Analytical

Client Name: Georgia Power

WO#: 2610944

PM: BM Due Date: 11/06/18

CLIENT: GAPower-CCR

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Commercial ☐ Pace Other

Tracking #: _____

Proj. Due Date:

Proj. Name:

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other _____

Thermometer Used 082 Type of Ice: (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 0.5°C Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: 10/29/18 CM

Temp should be above freezing to 6°C

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: GW		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☑No	Initial when completed / Lot # of added preservative
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	15.
Trip Blank Present:	☐Yes ☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased): _____		

Client Notification/ Resolution: Field Data Required? Y N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ **Date:** _____

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

August 10, 2018

Joju Abraham
Georgia Power - Coal Combustion Residuals
2480 Maner Road
Atlanta, GA 30339

RE: Project: Plant Branch
Pace Project No.: 267818

Dear Joju Abraham:
Enclosed are the analytical results for sample(s) received by the laboratory on August 03, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Betsy McDaniel
betsy.mcdaniel@pacelabs.com
(770)734-4200
Project Manager

Enclosures

cc: Kristen Jurinko, Golder Associates Inc.
Julie Lehrman, Golder Associates Inc.
Maria Padilla, Georgia Power
Dawn Prell, Golder Associates Inc.
Eric Rolle, Georgia Power - Coal Combustion Residuals
Rebecca Thornton, Pace Analytical Atlanta

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CERTIFICATIONS

Project: Plant Branch
Pace Project No.: 267818

Atlanta Certification IDs

110 Technology Parkway Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
Georgia DW Microbiology Certification #: 812
North Carolina Certification #: 381
South Carolina Certification #: 98011001
Texas Certification #: T104704397-08-TX
Virginia Certification #: 460204

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SAMPLE SUMMARY

Project: Plant Branch
Pace Project No.: 267818

Lab ID	Sample ID	Matrix	Date Collected	Date Received
267818001	**PZ-45**	Water	07/31/18 15:30	08/03/18 09:45
267818002	**PZ-47**	Water	08/01/18 10:10	08/03/18 09:45
267818003	**PZ-50**	Water	08/01/18 13:20	08/03/18 09:45
267818004	**FB-1**	Water	08/01/18 09:45	08/03/18 09:45

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SAMPLE ANALYTE COUNT

Project: Plant Branch
Pace Project No.: 267818

Lab ID	Sample ID	Method	Analysts	Analytes Reported
267818001	**PZ-45**	EPA 6020B	CSW, KLH	14
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3
267818002	**PZ-47**	EPA 6020B	KLH	14
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3
267818003	**PZ-50**	EPA 6020B	KLH	14
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3
267818004	**FB-1**	EPA 6020B	KLH	14
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3

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ANALYTICAL RESULTS

Project: Plant Branch
Pace Project No.: 267818

Sample: PZ-45 **Lab ID: 267818001** Collected: 07/31/18 15:30 Received: 08/03/18 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00078	1	08/07/18 12:49	08/08/18 16:31	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	08/07/18 12:49	08/08/18 16:31	7440-38-2	
Barium	**0.087**	mg/L	0.010	0.00078	1	08/07/18 12:49	08/08/18 16:31	7440-39-3	M1
Beryllium	ND	mg/L	0.015	0.00025	5	08/07/18 12:49	08/10/18 13:07	7440-41-7	
Boron	**0.035J**	mg/L	0.20	0.020	5	08/07/18 12:49	08/10/18 13:07	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	08/07/18 12:49	08/08/18 16:31	7440-43-9	
Calcium	**41.5**	mg/L	2.5	0.069	5	08/07/18 12:49	08/10/18 13:07	7440-70-2	M1
Chromium	ND	mg/L	0.010	0.0016	1	08/07/18 12:49	08/08/18 16:31	7440-47-3	
Cobalt	**0.0098J**	mg/L	0.010	0.00052	1	08/07/18 12:49	08/08/18 16:31	7440-48-4	
Lead	ND	mg/L	0.0050	0.00027	1	08/07/18 12:49	08/08/18 16:31	7439-92-1	
Lithium	ND	mg/L	0.25	0.0049	5	08/07/18 12:49	08/10/18 13:07	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.0019	1	08/07/18 12:49	08/08/18 16:31	7439-98-7	
Selenium	ND	mg/L	0.010	0.0014	1	08/07/18 12:49	08/08/18 16:31	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	08/07/18 12:49	08/08/18 16:31	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	08/07/18 12:40	08/07/18 17:39	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**393**	mg/L	25.0	10.0	1		08/03/18 15:04		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**59.0**	mg/L	2.5	0.24	10		08/03/18 19:41	16887-00-6	M1
Fluoride	ND	mg/L	0.30	0.029	1		08/03/18 19:20	16984-48-8	
Sulfate	**107**	mg/L	10.0	0.17	10		08/03/18 19:41	14808-79-8	M1

REPORT OF LABORATORY ANALYSIS

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(770)734-4200

ANALYTICAL RESULTS

Project: Plant Branch
Pace Project No.: 267818

Sample: PZ-47 **Lab ID: 267818002** Collected: 08/01/18 10:10 Received: 08/03/18 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00078	1	08/07/18 12:49	08/08/18 17:44	7440-36-0	
Arsenic	**0.0028J**	mg/L	0.0050	0.00057	1	08/07/18 12:49	08/08/18 17:44	7440-38-2	
Barium	**0.043**	mg/L	0.010	0.00078	1	08/07/18 12:49	08/08/18 17:44	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	08/07/18 12:49	08/08/18 17:44	7440-41-7	
Boron	**0.39**	mg/L	0.040	0.0039	1	08/07/18 12:49	08/08/18 17:44	7440-42-8	
Cadmium	**0.00011J**	mg/L	0.0010	0.000093	1	08/07/18 12:49	08/08/18 17:44	7440-43-9	
Calcium	**358**	mg/L	25.0	0.69	50	08/07/18 12:49	08/08/18 17:50	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	08/07/18 12:49	08/08/18 17:44	7440-47-3	
Cobalt	**0.0040J**	mg/L	0.010	0.00052	1	08/07/18 12:49	08/08/18 17:44	7440-48-4	
Lead	ND	mg/L	0.0050	0.00027	1	08/07/18 12:49	08/08/18 17:44	7439-92-1	
Lithium	**0.039J**	mg/L	0.050	0.00097	1	08/07/18 12:49	08/08/18 17:44	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.0019	1	08/07/18 12:49	08/08/18 17:44	7439-98-7	
Selenium	**0.0015J**	mg/L	0.010	0.0014	1	08/07/18 12:49	08/08/18 17:44	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	08/07/18 12:49	08/08/18 17:44	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	08/07/18 12:40	08/07/18 17:49	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**2190**	mg/L	25.0	10.0	1		08/03/18 15:04		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**5.2**	mg/L	0.25	0.024	1		08/03/18 20:43	16887-00-6	
Fluoride	**0.48**	mg/L	0.30	0.029	1		08/03/18 20:43	16984-48-8	
Sulfate	**1560**	mg/L	100	1.7	100		08/03/18 21:03	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Branch
Pace Project No.: 267818

Sample: PZ-50 **Lab ID: 267818003** Collected: 08/01/18 13:20 Received: 08/03/18 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00078	1	08/07/18 12:49	08/08/18 17:55	7440-36-0	
Arsenic	**0.00074J**	mg/L	0.0050	0.00057	1	08/07/18 12:49	08/08/18 17:55	7440-38-2	
Barium	**0.020**	mg/L	0.010	0.00078	1	08/07/18 12:49	08/08/18 17:55	7440-39-3	
Beryllium	**0.0025J**	mg/L	0.0030	0.000050	1	08/07/18 12:49	08/08/18 17:55	7440-41-7	
Boron	**0.28**	mg/L	0.040	0.0039	1	08/07/18 12:49	08/08/18 17:55	7440-42-8	
Cadmium	**0.042**	mg/L	0.0010	0.000093	1	08/07/18 12:49	08/08/18 17:55	7440-43-9	
Calcium	**246**	mg/L	25.0	0.69	50	08/07/18 12:49	08/08/18 18:01	7440-70-2	
Chromium	**0.0046J**	mg/L	0.010	0.0016	1	08/07/18 12:49	08/08/18 17:55	7440-47-3	
Cobalt	**1.4**	mg/L	0.50	0.026	50	08/07/18 12:49	08/08/18 18:01	7440-48-4	
Lead	ND	mg/L	0.0050	0.00027	1	08/07/18 12:49	08/08/18 17:55	7439-92-1	
Lithium	**0.036J**	mg/L	0.050	0.00097	1	08/07/18 12:49	08/08/18 17:55	7439-93-2	
Molybdenum	**0.0033J**	mg/L	0.010	0.0019	1	08/07/18 12:49	08/08/18 17:55	7439-98-7	
Selenium	**0.0031J**	mg/L	0.010	0.0014	1	08/07/18 12:49	08/08/18 17:55	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	08/07/18 12:49	08/08/18 17:55	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	08/07/18 12:40	08/07/18 17:51	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**2360**	mg/L	25.0	10.0	1		08/03/18 15:04		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**25.7**	mg/L	0.25	0.024	1		08/03/18 21:24	16887-00-6	
Fluoride	**2.0**	mg/L	0.30	0.029	1		08/03/18 21:24	16984-48-8	
Sulfate	**1580**	mg/L	50.0	0.85	50		08/03/18 21:45	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Branch
Pace Project No.: 267818

Sample: FB-1 **Lab ID: 267818004** Collected: 08/01/18 09:45 Received: 08/03/18 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00078	1	08/07/18 12:49	08/08/18 18:07	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	08/07/18 12:49	08/08/18 18:07	7440-38-2	
Barium	ND	mg/L	0.010	0.00078	1	08/07/18 12:49	08/08/18 18:07	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	08/07/18 12:49	08/08/18 18:07	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	08/07/18 12:49	08/08/18 18:07	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	08/07/18 12:49	08/08/18 18:07	7440-43-9	
Calcium	**0.018J**	mg/L	0.50	0.014	1	08/07/18 12:49	08/08/18 18:07	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	08/07/18 12:49	08/08/18 18:07	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	08/07/18 12:49	08/08/18 18:07	7440-48-4	
Lead	ND	mg/L	0.0050	0.00027	1	08/07/18 12:49	08/08/18 18:07	7439-92-1	
Lithium	ND	mg/L	0.050	0.00097	1	08/07/18 12:49	08/08/18 18:07	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.0019	1	08/07/18 12:49	08/08/18 18:07	7439-98-7	
Selenium	ND	mg/L	0.010	0.0014	1	08/07/18 12:49	08/08/18 18:07	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	08/07/18 12:49	08/08/18 18:07	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	08/07/18 12:40	08/07/18 17:53	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	ND	mg/L	25.0	10.0	1		08/03/18 15:04		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**0.076J**	mg/L	0.25	0.024	1		08/03/18 22:05	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		08/03/18 22:05	16984-48-8	
Sulfate	ND	mg/L	1.0	0.017	1		08/03/18 22:05	14808-79-8	

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QUALITY CONTROL DATA

Project: Plant Branch
Pace Project No.: 267818

QC Batch: 11249 Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
Associated Lab Samples: 267818001, 267818002, 267818003, 267818004

METHOD BLANK: 50678 Matrix: Water
Associated Lab Samples: 267818001, 267818002, 267818003, 267818004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00050	0.000036	08/07/18 17:34	

LABORATORY CONTROL SAMPLE: 50679

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	.0025	0.0024	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 50680 50681

Parameter	Units	267818001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	.0025	.0025	0.0026	0.0027	104	106	75-125	3	20	

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QUALITY CONTROL DATA

Project: Plant Branch
Pace Project No.: 267818

QC Batch: 11250 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020B MET
Associated Lab Samples: 267818001, 267818002, 267818003, 267818004

METHOD BLANK: 50682 Matrix: Water
Associated Lab Samples: 267818001, 267818002, 267818003, 267818004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	08/08/18 16:20	
Arsenic	mg/L	ND	0.0050	0.00057	08/08/18 16:20	
Barium	mg/L	ND	0.010	0.00078	08/08/18 16:20	
Beryllium	mg/L	ND	0.0030	0.000050	08/08/18 16:20	
Boron	mg/L	ND	0.040	0.0039	08/08/18 16:20	
Cadmium	mg/L	ND	0.0010	0.000093	08/08/18 16:20	
Calcium	mg/L	ND	0.50	0.014	08/08/18 16:20	
Chromium	mg/L	ND	0.010	0.0016	08/08/18 16:20	
Cobalt	mg/L	ND	0.010	0.00052	08/08/18 16:20	
Lead	mg/L	ND	0.0050	0.00027	08/08/18 16:20	
Lithium	mg/L	ND	0.050	0.00097	08/08/18 16:20	
Molybdenum	mg/L	ND	0.010	0.0019	08/08/18 16:20	
Selenium	mg/L	ND	0.010	0.0014	08/08/18 16:20	
Thallium	mg/L	ND	0.0010	0.00014	08/08/18 16:20	

LABORATORY CONTROL SAMPLE: 50683

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	.1	0.10	100	80-120	
Arsenic	mg/L	.1	0.099	99	80-120	
Barium	mg/L	.1	0.096	96	80-120	
Beryllium	mg/L	.1	0.10	102	80-120	
Boron	mg/L	1	1.0	104	80-120	
Cadmium	mg/L	.1	0.10	101	80-120	
Calcium	mg/L	1	0.97	97	80-120	
Chromium	mg/L	.1	0.10	101	80-120	
Cobalt	mg/L	.1	0.10	102	80-120	
Lead	mg/L	.1	0.10	101	80-120	
Lithium	mg/L	.1	0.11	105	80-120	
Molybdenum	mg/L	.1	0.10	100	80-120	
Selenium	mg/L	.1	0.10	100	80-120	
Thallium	mg/L	.1	0.10	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 50684 50685

Parameter	Units	267818001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	.1	.1	0.10	0.098	104	98	75-125	6	20	

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QUALITY CONTROL DATA

Project: Plant Branch
Pace Project No.: 267818

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 50684 50685

Parameter	Units	267818001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	ND	.1	.1	0.10	0.10	102	101	75-125	0	20	
Barium	mg/L	0.087	.1	.1	0.24	0.23	153	147	75-125	3	20	M1
Beryllium	mg/L	ND	.1	.1	0.094	0.095	94	95	75-125	1	20	
Boron	mg/L	0.035J	1	1	0.98	0.95	94	91	75-125	3	20	
Cadmium	mg/L	ND	.1	.1	0.10	0.098	103	98	75-125	5	20	
Calcium	mg/L	41.5	1	1	41.3	40.2	-28	-138	75-125	3	20	M1
Chromium	mg/L	ND	.1	.1	0.10	0.095	99	95	75-125	5	20	
Cobalt	mg/L	0.0098J	.1	.1	0.11	0.11	98	97	75-125	1	20	
Lead	mg/L	ND	.1	.1	0.097	0.093	97	93	75-125	5	20	
Lithium	mg/L	ND	.1	.1	0.098J	0.095J	94	92	75-125		20	
Molybdenum	mg/L	ND	.1	.1	0.11	0.10	105	100	75-125	6	20	
Selenium	mg/L	ND	.1	.1	0.10	0.10	104	104	75-125	0	20	
Thallium	mg/L	ND	.1	.1	0.099	0.095	99	95	75-125	4	20	

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QUALITY CONTROL DATA

Project: Plant Branch
Pace Project No.: 267818

QC Batch: 11083 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 267818001, 267818002, 267818003, 267818004

LABORATORY CONTROL SAMPLE: 50012

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	389	97	84-108	

SAMPLE DUPLICATE: 50013

Parameter	Units	267818001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	393	388	1	10	

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QUALITY CONTROL DATA

Project: Plant Branch
Pace Project No.: 267818

QC Batch: 11089 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 267818001, 267818002, 267818003, 267818004

METHOD BLANK: 50043 Matrix: Water
Associated Lab Samples: 267818001, 267818002, 267818003, 267818004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	0.024	08/03/18 18:39	
Fluoride	mg/L	ND	0.30	0.029	08/03/18 18:39	
Sulfate	mg/L	ND	1.0	0.017	08/03/18 18:39	

LABORATORY CONTROL SAMPLE: 50044

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	10	10.5	105	90-110	
Fluoride	mg/L	10	10.7	107	90-110	
Sulfate	mg/L	10	10.1	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 50045 50046

Parameter	Units	267818001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	59.0	10	10	63.2	63.1	42	41	90-110	0	15	E,M1
Fluoride	mg/L	ND	10	10	10.4	10.4	104	104	90-110	0	15	
Sulfate	mg/L	107	10	10	102	102	-50	-51	90-110	0	15	E,M1

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QUALIFIERS

Project: Plant Branch
Pace Project No.: 267818

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

E	Analyte concentration exceeded the calibration range. The reported result is estimated.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Branch
Pace Project No.: 267818

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
267818001	**PZ-45**	EPA 3005A	11250	EPA 6020B	11364
267818002	**PZ-47**	EPA 3005A	11250	EPA 6020B	11364
267818003	**PZ-50**	EPA 3005A	11250	EPA 6020B	11364
267818004	**FB-1**	EPA 3005A	11250	EPA 6020B	11364
267818001	**PZ-45**	EPA 7470A	11249	EPA 7470A	11271
267818002	**PZ-47**	EPA 7470A	11249	EPA 7470A	11271
267818003	**PZ-50**	EPA 7470A	11249	EPA 7470A	11271
267818004	**FB-1**	EPA 7470A	11249	EPA 7470A	11271
267818001	**PZ-45**	SM 2540C	11083		
267818002	**PZ-47**	SM 2540C	11083		
267818003	**PZ-50**	SM 2540C	11083		
267818004	**FB-1**	SM 2540C	11083		
267818001	**PZ-45**	EPA 300.0	11089		
267818002	**PZ-47**	EPA 300.0	11089		
267818003	**PZ-50**	EPA 300.0	11089		
267818004	**FB-1**	EPA 300.0	11089		

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CHAIN OF CUSTODY RECORD

Pace Analytical®

Pace Analytical Services, Inc.
110 TECHNOLOGY PARKWAY, PEACHTREE CORNERS, GA 30092
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CLIENT NAME: Georgia Power

CLIENT ADDRESS/PHONE NUMBER/FAX NUMBER:
241 Ralph McGill Blvd SE B10185
Atlanta, GA 30308
404-506-7239

REPORT TO: Dawn Prell (Dawn_Prell@golder.com)
CC: rachel_kirkman@golder.com

REQUESTED COMPLETION DATE: Standard TAT
PO #: laburch@southernco.com

PROJECT NAME/STATE: Plant Branch

PROJECT #: Phase II CCR

ANALYSIS REQUESTED

Collection DATE	Collection TIME	MATRIX CODE*	COMP	GRAB	SAMPLE IDENTIFICATION	# of CONTAINERS		Metals App III & IV (EPA 6020/7470)	Cl, F, SO4 & TDS (EPA 300.0 & SM 2540C)	Radium 226 & 228 (SW-846 9315/9320)							LAB ID NUMBER
CONTAINER TYPE:								P	P	P							
PRESERVATION:								3&7	7	3&7							
07/31/18	1530	GW		x	PZ-45	4		1	1	2							
08/01/18	1010	GW		x	PZ-47	4		1	1	2							
08/01/18	1320	GW		x	PZ-50	4		1	1	2							
08/01/18	0945	W		x	FB-1	4		1	1	2							

CONTAINER TYPE: P - PLASTIC; A - AMBER GLASS; G - CLEAR GLASS; V - VOA VIAL; S - STERILE; O - OTHER

PRESERVATION: 1 - HCl, ≤6°C; 2 - H_2SO_4, ≤6°C; 3 - HNO_3; 4 - NaOH, ≤6°C; 5 - NaOH/ZnAc, ≤6°C; 6 - $Na_2S_2O_3$, ≤6°C; 7 - ≤6°C not frozen

*MATRIX CODES:
DW - DRINKING WATER; WW - WASTEWATER; GW - GROUNDWATER; SW - SURFACE WATER; ST - STORM WATER; W - WATER; S - SOIL; SL - SLUDGE; SD - SOLID; A - AIR; L - LIQUID; P - PRODUCT

REMARKS/ADDITIONAL INFORMATION

WO#: 267818

267818

SAMPLED BY AND TITLE: Karim Minkara Geologist
DATE/TIME: 8/2/2016

RELINQUISHED BY:
DATE/TIME: 8/2/18 1700

RECEIVED BY:
DATE/TIME:

RELINQUISHED BY:
DATE/TIME:

RECEIVED BY LAB:
DATE/TIME: 08/03/18 0945

SAMPLE SHIPPED VIA: UPS FED-EX USPS COURIER CLIENT OTHER FS

pH Checked: Yes No NA
Ice: Yes No NA
Temperature: Min: 0.2 Max

Custody Seal: Intact Broken Not Present
# of Coolers:
Cooler ID:

FOR LAB USE ONLY
LAB #:
Entered into LIMS:
Tracking #:

Sample Condition Upon Receipt

Pace Analytical

Client Name: GA Power

Project #

WO#: 267818

PM: BM Due Date: 08/10/18

CLIENT: GAPower-CCR

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other

Tracking #: 782124473256

Custody Seal on Cooler/Box Present: ☑ yes ☐ no Seals intact: ☑ yes ☐

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Thermometer Used 83 Type of Ice: (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 0.2 Biological Tissue is Frozen: Yes No

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 8/3/18 MA

				Comments:
Chain of Custody Present:	☑Yes	☐No	☐N/A	1.
Chain of Custody Filled Out:	☑Yes	☐No	☐N/A	2.
Chain of Custody Relinquished:	☑Yes	☐No	☐N/A	3.
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☑Yes	☐No	☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes	☑No	☐N/A	6.
Rush Turn Around Time Requested:	☐Yes	☑No	☐N/A	7.
Sufficient Volume:	☑Yes	☐No	☐N/A	8.
Correct Containers Used:	☑Yes	☐No	☐N/A	9.
-Pace Containers Used:	☑Yes	☐No	☐N/A	
Containers Intact:	☑Yes	☐No	☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☑N/A	11.
Sample Labels match COC:	☑Yes	☐No	☐N/A	12.
-Includes date/time/ID/Analysis Matrix: GW				
All containers needing preservation have been checked.	☑Yes	☐No	☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes	☐No	☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes	☑No		Initial when completed / Lot # of added preservative
Samples checked for dechlorination:	☐Yes	☐No	☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☑N/A	15.
Trip Blank Present:	☐Yes	☐No	☑N/A	16.
Trip Blank Custody Seals Present	☐Yes	☐No	☑N/A	
Pace Trip Blank Lot # (if purchased):				

Client Notification/ Resolution: Field Data Required? Y N

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: **Date:**

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers).

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

July 10, 2018

Joju Abraham
Georgia Power - Coal Combustion Residuals
2480 Maner Road
Atlanta, GA 30339

RE: Project: Plant Branch
Pace Project No.: 266665

Dear Joju Abraham:
Enclosed are the analytical results for sample(s) received by the laboratory on June 29, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Betsy McDaniel
betsy.mcdaniel@pacelabs.com
(770)734-4200
Project Manager

Enclosures

cc: Kristen Jurinko, Golder Associates Inc.
Maria Padilla, Georgia Power
Dawn Prell, Golder Associates Inc.
Eric Rolle, Georgia Power - Coal Combustion Residuals
Rebecca Thornton, Pace Analytical Atlanta

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CERTIFICATIONS

Project: Plant Branch
Pace Project No.: 266665

Atlanta Certification IDs

110 Technology Parkway Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
Georgia DW Microbiology Certification #: 812
North Carolina Certification #: 381
South Carolina Certification #: 98011001
Texas Certification #: T104704397-08-TX
Virginia Certification #: 460204

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Plant Branch
Pace Project No.: 266665

Lab ID	Sample ID	Matrix	Date Collected	Date Received
266665001	**BRGWC-30I**	Water	06/28/18 08:45	06/29/18 10:15
266665002	**BRGWC-45**	Water	06/28/18 11:05	06/29/18 10:15
266665003	**BRGWC-50**	Water	06/28/18 09:55	06/29/18 10:15

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SAMPLE ANALYTE COUNT

Project: Plant Branch
Pace Project No.: 266665

Lab ID	Sample ID	Method	Analysts	Analytes Reported
266665001	**BRGWC-30I**	EPA 6020B	CSW	14
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3
266665002	**BRGWC-45**	EPA 6020B	CSW	14
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3
266665003	**BRGWC-50**	EPA 6020B	CSW	14
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3

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ANALYTICAL RESULTS

Project: Plant Branch
Pace Project No.: 266665

Sample: BRGWC-30I **Lab ID: 266665001** Collected: 06/28/18 08:45 Received: 06/29/18 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00078	1	07/02/18 09:21	07/02/18 19:48	7440-36-0	
Arsenic	**0.00073J**	mg/L	0.0050	0.00057	1	07/02/18 09:21	07/02/18 19:48	7440-38-2	
Barium	**0.023**	mg/L	0.010	0.00078	1	07/02/18 09:21	07/02/18 19:48	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	07/02/18 09:21	07/02/18 19:48	7440-41-7	
Boron	**1.4**	mg/L	0.040	0.0039	1	07/02/18 09:21	07/02/18 19:48	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	07/02/18 09:21	07/02/18 19:48	7440-43-9	
Calcium	**73.3**	mg/L	25.0	0.69	50	07/02/18 09:21	07/02/18 19:54	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	07/02/18 09:21	07/02/18 19:48	7440-47-3	
Cobalt	**0.00078J**	mg/L	0.010	0.00052	1	07/02/18 09:21	07/02/18 19:48	7440-48-4	
Lead	ND	mg/L	0.0050	0.00027	1	07/02/18 09:21	07/02/18 19:48	7439-92-1	
Lithium	**0.013J**	mg/L	0.050	0.00097	1	07/02/18 09:21	07/02/18 19:48	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.0019	1	07/02/18 09:21	07/02/18 19:48	7439-98-7	
Selenium	ND	mg/L	0.010	0.0014	1	07/02/18 09:21	07/02/18 19:48	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	07/02/18 09:21	07/02/18 19:48	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00020	0.000036	1	07/03/18 08:20	07/03/18 13:00	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**494**	mg/L	10.0	10.0	1		07/03/18 14:34		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**7.0**	mg/L	0.25	0.024	1		07/03/18 21:42	16887-00-6	
Fluoride	**0.93**	mg/L	0.30	0.029	1		07/03/18 21:42	16984-48-8	
Sulfate	**276**	mg/L	10.0	0.17	10		07/07/18 18:08	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Branch
Pace Project No.: 266665

Sample: BRGWC-45 **Lab ID: 266665002** Collected: 06/28/18 11:05 Received: 06/29/18 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00078	1	07/02/18 09:21	07/02/18 20:11	7440-36-0	
Arsenic	**0.0017J**	mg/L	0.0050	0.00057	1	07/02/18 09:21	07/02/18 20:11	7440-38-2	
Barium	**0.067**	mg/L	0.010	0.00078	1	07/02/18 09:21	07/02/18 20:11	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	07/02/18 09:21	07/02/18 20:11	7440-41-7	
Boron	**0.025J**	mg/L	0.040	0.0039	1	07/02/18 09:21	07/02/18 20:11	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	07/02/18 09:21	07/02/18 20:11	7440-43-9	
Calcium	**41.9**	mg/L	25.0	0.69	50	07/02/18 09:21	07/02/18 20:17	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	07/02/18 09:21	07/02/18 20:11	7440-47-3	
Cobalt	**0.010**	mg/L	0.010	0.00052	1	07/02/18 09:21	07/02/18 20:11	7440-48-4	
Lead	ND	mg/L	0.0050	0.00027	1	07/02/18 09:21	07/02/18 20:11	7439-92-1	
Lithium	**0.0028J**	mg/L	0.050	0.00097	1	07/02/18 09:21	07/02/18 20:11	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.0019	1	07/02/18 09:21	07/02/18 20:11	7439-98-7	
Selenium	ND	mg/L	0.010	0.0014	1	07/02/18 09:21	07/02/18 20:11	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	07/02/18 09:21	07/02/18 20:11	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00020	0.000036	1	07/03/18 08:20	07/03/18 13:02	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**333**	mg/L	10.0	10.0	1		07/03/18 14:34		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**50.2**	mg/L	1.2	0.12	5		07/07/18 18:30	16887-00-6	
Fluoride	**0.69**	mg/L	0.30	0.029	1		07/03/18 22:03	16984-48-8	
Sulfate	**109**	mg/L	5.0	0.085	5		07/07/18 18:30	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Branch
Pace Project No.: 266665

Sample: BRGWC-50 **Lab ID: 266665003** Collected: 06/28/18 09:55 Received: 06/29/18 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00078	1	07/02/18 09:21	07/02/18 20:23	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	07/02/18 09:21	07/02/18 20:23	7440-38-2	
Barium	**0.021**	mg/L	0.010	0.00078	1	07/02/18 09:21	07/02/18 20:23	7440-39-3	
Beryllium	**0.0030J**	mg/L	0.0030	0.000050	1	07/02/18 09:21	07/02/18 20:23	7440-41-7	
Boron	**0.34**	mg/L	0.040	0.0039	1	07/02/18 09:21	07/02/18 20:23	7440-42-8	
Cadmium	**0.087**	mg/L	0.0010	0.000093	1	07/02/18 09:21	07/02/18 20:23	7440-43-9	
Calcium	**242**	mg/L	25.0	0.69	50	07/02/18 09:21	07/02/18 20:29	7440-70-2	
Chromium	**0.0023J**	mg/L	0.010	0.0016	1	07/02/18 09:21	07/02/18 20:23	7440-47-3	
Cobalt	**1.3**	mg/L	0.50	0.026	50	07/02/18 09:21	07/02/18 20:29	7440-48-4	
Lead	**0.00054J**	mg/L	0.0050	0.00027	1	07/02/18 09:21	07/02/18 20:23	7439-92-1	
Lithium	**0.040J**	mg/L	0.050	0.00097	1	07/02/18 09:21	07/02/18 20:23	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.0019	1	07/02/18 09:21	07/02/18 20:23	7439-98-7	
Selenium	ND	mg/L	0.010	0.0014	1	07/02/18 09:21	07/02/18 20:23	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	07/02/18 09:21	07/02/18 20:23	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00020	0.000036	1	07/03/18 08:20	07/03/18 13:05	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**2290**	mg/L	10.0	10.0	1		07/03/18 14:34		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**24.0**	mg/L	0.25	0.024	1		07/03/18 23:49	16887-00-6	
Fluoride	**1.1**	mg/L	0.30	0.029	1		07/03/18 23:49	16984-48-8	
Sulfate	**1530**	mg/L	50.0	0.85	50		07/07/18 18:52	14808-79-8	

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QUALITY CONTROL DATA

Project: Plant Branch
Pace Project No.: 266665

QC Batch: 9168 Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
Associated Lab Samples: 266665001, 266665002, 266665003

METHOD BLANK: 41848 Matrix: Water
Associated Lab Samples: 266665001, 266665002, 266665003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	0.000040J	0.00020	0.000036	07/03/18 12:29	

LABORATORY CONTROL SAMPLE: 41849

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	.0025	0.0025	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 41850 41851

Parameter	Units	266662001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	.0025	.0025	0.0025	0.0025	98	100	75-125	2	20	

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QUALITY CONTROL DATA

Project: Plant Branch
Pace Project No.: 266665

QC Batch: 9111 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020B MET
Associated Lab Samples: 266665001, 266665002, 266665003

METHOD BLANK: 41720 Matrix: Water
Associated Lab Samples: 266665001, 266665002, 266665003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	07/02/18 17:41	
Arsenic	mg/L	ND	0.0050	0.00057	07/02/18 17:41	
Barium	mg/L	ND	0.010	0.00078	07/02/18 17:41	
Beryllium	mg/L	ND	0.0030	0.000050	07/02/18 17:41	
Boron	mg/L	ND	0.040	0.0039	07/02/18 17:41	
Cadmium	mg/L	ND	0.0010	0.000093	07/02/18 17:41	
Calcium	mg/L	0.016J	0.50	0.014	07/02/18 17:41	
Chromium	mg/L	ND	0.010	0.0016	07/02/18 17:41	
Cobalt	mg/L	ND	0.010	0.00052	07/02/18 17:41	
Lead	mg/L	ND	0.0050	0.00027	07/02/18 17:41	
Lithium	mg/L	ND	0.050	0.00097	07/02/18 17:41	
Molybdenum	mg/L	ND	0.010	0.0019	07/02/18 17:41	
Selenium	mg/L	ND	0.010	0.0014	07/02/18 17:41	
Thallium	mg/L	ND	0.0010	0.00014	07/02/18 17:41	

LABORATORY CONTROL SAMPLE: 41721

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	.1	0.11	106	80-120	
Arsenic	mg/L	.1	0.10	103	80-120	
Barium	mg/L	.1	0.10	100	80-120	
Beryllium	mg/L	.1	0.11	106	80-120	
Boron	mg/L	1	1.0	105	80-120	
Cadmium	mg/L	.1	0.10	102	80-120	
Calcium	mg/L	1	1.1	111	80-120	
Chromium	mg/L	.1	0.10	104	80-120	
Cobalt	mg/L	.1	0.10	103	80-120	
Lead	mg/L	.1	0.10	102	80-120	
Lithium	mg/L	.1	0.11	107	80-120	
Molybdenum	mg/L	.1	0.10	103	80-120	
Selenium	mg/L	.1	0.10	102	80-120	
Thallium	mg/L	.1	0.10	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 41722 41723

Parameter	Units	266662001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	.1	.1	0.11	0.11	106	108	75-125	1	20	

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QUALITY CONTROL DATA

Project: Plant Branch
Pace Project No.: 266665

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 41722 41723

Parameter	Units	266662001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	0.00074J	.1	.1	0.11	0.10	104	104	75-125	0	20	
Barium	mg/L	0.035	.1	.1	0.14	0.14	103	106	75-125	3	20	
Beryllium	mg/L	0.000081J	.1	.1	0.092	0.095	92	95	75-125	3	20	
Boron	mg/L	0.89	1	1	1.8	2.0	95	106	75-125	6	20	
Cadmium	mg/L	ND	.1	.1	0.10	0.11	105	106	75-125	1	20	
Calcium	mg/L	51.0	1	1	52.1	52.7	113	174	75-125	1	20	M6
Chromium	mg/L	0.0076J	.1	.1	0.11	0.11	104	104	75-125	0	20	
Cobalt	mg/L	ND	.1	.1	0.10	0.10	101	101	75-125	0	20	
Lead	mg/L	ND	.1	.1	0.10	0.10	100	101	75-125	1	20	
Lithium	mg/L	0.0022J	.1	.1	0.092	0.092	90	90	75-125	0	20	
Molybdenum	mg/L	ND	.1	.1	0.10	0.11	105	107	75-125	2	20	
Selenium	mg/L	0.0033J	.1	.1	0.11	0.11	104	104	75-125	0	20	
Thallium	mg/L	ND	.1	.1	0.10	0.10	101	103	75-125	2	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Branch
Pace Project No.: 266665

QC Batch: 9106 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 266665001, 266665002, 266665003

LABORATORY CONTROL SAMPLE: 41707

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	405	101	84-108	

SAMPLE DUPLICATE: 41708

Parameter	Units	266622002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	960	986	3	10	

SAMPLE DUPLICATE: 41711

Parameter	Units	266662006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	14.0	15.0	7	10	

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Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Branch
Pace Project No.: 266665

QC Batch: 9216 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 266665001, 266665002, 266665003

METHOD BLANK: 42027 Matrix: Water
Associated Lab Samples: 266665001, 266665002, 266665003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	0.11J	0.25	0.024	07/03/18 18:10	
Fluoride	mg/L	ND	0.30	0.029	07/03/18 18:10	
Sulfate	mg/L	ND	1.0	0.017	07/03/18 18:10	

LABORATORY CONTROL SAMPLE: 42028

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	10	10	100	90-110	
Fluoride	mg/L	10	10.9	109	90-110	
Sulfate	mg/L	10	9.9	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 42029 42030

Parameter	Units	266662001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	9.0	10	10	15.2	15.4	62	64	90-110	1	15	M1
Fluoride	mg/L	0.51	10	10	11.4	11.7	109	112	90-110	2	15	M1
Sulfate	mg/L	284	10	10	199	199	-849	-848	90-110	0	15	E,M1

MATRIX SPIKE SAMPLE: 42031

Parameter	Units	266662002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	2.1	10	11.8	97	90-110	
Fluoride	mg/L	ND	10	11.4	114	90-110	M1
Sulfate	mg/L	0.24J	10	10.1	99	90-110	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALIFIERS

Project: Plant Branch
Pace Project No.: 266665

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

E	Analyte concentration exceeded the calibration range. The reported result is estimated.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
M6	Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

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110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Branch
Pace Project No.: 266665

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
266665001	**BRGWC-30I**	EPA 3005A	9111	EPA 6020B	9167
266665002	**BRGWC-45**	EPA 3005A	9111	EPA 6020B	9167
266665003	**BRGWC-50**	EPA 3005A	9111	EPA 6020B	9167
266665001	**BRGWC-30I**	EPA 7470A	9168	EPA 7470A	9224
266665002	**BRGWC-45**	EPA 7470A	9168	EPA 7470A	9224
266665003	**BRGWC-50**	EPA 7470A	9168	EPA 7470A	9224
266665001	**BRGWC-30I**	SM 2540C	9106		
266665002	**BRGWC-45**	SM 2540C	9106		
266665003	**BRGWC-50**	SM 2540C	9106		
266665001	**BRGWC-30I**	EPA 300.0	9216		
266665002	**BRGWC-45**	EPA 300.0	9216		
266665003	**BRGWC-50**	EPA 300.0	9216		

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CHAIN OF CUSTODY RECORD

Pace Analytical
www.pacelabs.com

Pace Analytical Services, LLC - Atlanta GA
110 TECHNOLOGY PARKWAY, PEACHTREE CORNERS, GA 30092
(770) 734-4200 : FAX (770) 734-4201

CLIENT NAME: Georgia Power

CLIENT ADDRESS/PHONE NUMBER/FAX NUMBER:
241 Ralph McGill Blvd SE 31085
Atlanta, GA 30308 P. 404-506-7234

REPORT TO: Jay. Abraham | CC: Maria Padilla

REQUESTED COMPLETION DATE: — | PO #: Jahabe Southern.com

PROJECT NAME/STATE: Plant Branch

PROJECT #: State GW

Collection DATE	Collection TIME	MATRIX CODE*	COMP	GRAB	SAMPLE IDENTIFICATION	# of CONTAINERS											
					CONTAINER TYPE:												
					PRESERVATION:												
								3	3	3							
								Methods 200.8 (EPA 600/4-79-020)	TDS, Cl, F, SO4 (EPA 300.0 + SM2540C)	Radium 226 & 228 (Ga. 848, 9315 / 9320)							
6-28-18	0845	GW		G	BRGWC-30I	6		1	1	1							
6-28-18	1105	GW		G	BRGWC-45	4		1	1	2							
6-28-18	0955	GW		G	BRGWC-50	4		1	1	2							

LAB ID NUMBER

CONTAINER TYPE
P - PLASTIC
A - AMBER GLASS
G - CLEAR GLASS
V - VOA VIAL
S - STERILE
O - OTHER

PRESERVATION
1 - HCl, ≤6°C
2 - H_2SO_4, ≤6°C
3 - HNO_3
4 - NaOH, ≤6°C
5 - NaOH/ZnAc, ≤6°C
6 - $Na_2S_2O_3$, ≤6°C
7 - ≤6°C not frozen

MATRIX CODES:
DW - DRINKING WATER
WW - WASTEWATER
GW - GROUNDWATER
SW - SURFACE WATER
ST - STORM WATER
W - WATER
S - SOIL
SL - SLUDGE
SD - SOLID
A - AIR
L - LIQUID
P - PRODUCT

REMARKS/ADDITIONAL INFORMATION
+2 Radium

WO# : 266665

266665

SAMPLED BY AND TITLE: Travis Martinez / Scientist
DATE/TIME: 6-28-18 / 1800

RELINQUISHED BY:
DATE/TIME: 6-29-18 / 0800

RECEIVED BY:
DATE/TIME:

RELINQUISHED BY:
DATE/TIME:

RECEIVED BY LAB: Rahman
DATE/TIME: 06/29/18 1015

SAMPLE SHIPPED VIA: UPS FED-EX USPS COURIER CLIENT OTHER FS
Custody Seal: Intact Broken Not Present N/A
# of Coolers:
Cooler ID:

pH checked: Yes No NA
Temperature: Min: 1.8 Max:

FOR LAB USE ONLY
LAB #:
Entered into LIMS:
Tracking #:

Sample Condition Upon Receipt

Pace Analytical

Client Name: GA Power

Project #

WO#: 266665

PM: BM

Due Date: 07/09/18

CLIENT: GAPower-CCR

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☒ Commercial ☐ Pace Other

Tracking #:

Custody Seal on Cooler/Box Present: ☒ yes ☐ no Seals intact: ☒ yes ☐

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☒ None ☐ Other

Thermometer Used 83

Type of Ice: (Wet) Blue None

☐ Samples on ice, cooling process has begun

Date and Initials of person examining contents: 10/29/18 MK

Cooler Temperature 1.8

Biological Tissue is Frozen: Yes No

Temp should be above freezing to 6°C

Comments:

Chain of Custody Present:	☒Yes	☐No	☐N/A 1.
Chain of Custody Filled Out:	☒Yes	☐No	☐N/A 2.
Chain of Custody Relinquished:	☒Yes	☐No	☐N/A 3.
Sampler Name & Signature on COC:	☒Yes	☐No	☐N/A 4.
Samples Arrived within Hold Time:	☒Yes	☐No	☐N/A 5.
Short Hold Time Analysis (<72hr):	☐Yes	☒No	☐N/A 6.
Rush Turn Around Time Requested:	☐Yes	☒No	☐N/A 7.
Sufficient Volume:	☒Yes	☐No	☐N/A 8.
Correct Containers Used:	☒Yes	☐No	☐N/A 9.
-Pace Containers Used:	☒Yes	☐No	☐N/A
Containers Intact:	☒Yes	☐No	☐N/A 10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☒N/A 11.
Sample Labels match COC:	☒Yes	☐No	☐N/A 12.
-Includes date/time/ID/Analysis Matrix: GW			
All containers needing preservation have been checked.	☒Yes	☐No	☐N/A 13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☒Yes	☐No	☐N/A
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes	☒No	Initial when completed / Lot # of added preservative
Samples checked for dechlorination:	☐Yes	☐No	☐N/A 14.
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☒N/A 15.
Trip Blank Present:	☐Yes	☐No	☒N/A 16.
Trip Blank Custody Seals Present	☐Yes	☐No	☒N/A
Pace Trip Blank Lot # (if purchased):			

Client Notification/ Resolution:

Person Contacted: Date/Time: Field Data Required Y N

Comments/ Resolution:

Project Manager Review: Date:

Note: Whenever there is a discrepancy affecting North Carolina compliance samples a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers).

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921
Tel: (865)291-3000

Laboratory Job ID: 140-19131-1
Client Project/Site: SCS Site, Plant Branch

For:
Golder Associates Inc.
5170 Peachtree Road
Building 100, Suite 300
Atlanta, Georgia 30341

Attn: Brian Steele

Ryan Henry

Authorized for release by:
6/25/2020 3:51:10 PM

Ryan Henry, Project Manager I
(865)291-3000
william.henry@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Definitions/Glossary 3
Case Narrative 4
Sample Summary 7
Client Sample Results 8
Default Detection Limits 32
QC Sample Results 34
QC Association Summary 40
Lab Chronicle 49
Certification Summary 69
Method Summary 70
Chain of Custody 71

Definitions/Glossary

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-19131-1

Qualifiers

Metals

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
*1	LCS/LCSD RPD exceeds control limits.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
L	A negative instrument reading had an absolute value greater than the reporting limit

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 140-19131-1

Laboratory: Eurofins TestAmerica, Knoxville

Narrative

Job Narrative
140-19131-1

Receipt
The samples were received on 5/20/2020 at 9:45am and arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.8º C.

Receipt Exceptions
The Field Sampler was not listed on the Chain of Custody.

Metals
7 Step Sequential Extraction Procedure

These soil samples were prepared and analyzed using Eurofins TestAmerica Knoxville standard operating procedure KNOX-MT-0008, "7 Step Sequential Extraction Procedure". SW-846 Method 6010B as incorporated in Eurofins TestAmerica Knoxville standard operating procedure KNOX-MT-0007 was used to perform the final instrument analyses.

An aliquot of each sample was sequentially extracted using the steps listed below:

· Step 1 - Exchangeable Fraction: A 5 gram aliquot of sample was extracted with 25 mL of 1M magnesium sulfate (MgSO4), centrifuged and filtered. 5 mL of the resulting leachate was digested using method 3010A and analyzed by method 6010B. Results are reported in mg/kg on a dry weight basis.
· Step 2 - Carbonate Fraction: The sample residue from step 1 was extracted with 25 mL of 1M sodium acetate/acetic acid (NaOAc/HOAc) at pH 5, centrifuged and filtered. 5 mL of the resulting leachate was digested using method 3010A and analyzed by method 6010B. Results are reported in mg/kg on a dry weight basis.
· Step 3 - Non-crystalline Materials Fraction: The sample residue from step 2 was extracted with 25 mL of 0.2M ammonium oxalate (pH 3), centrifuged and filtered. 5 mL of the resulting leachate was digested using method 3010A and analyzed by method 6010B. Results are reported in mg/kg on a dry weight basis.
· Step 4 - Metal Hydroxide Fraction: The sample residue from step 3 was extracted with 25 mL of 1M hydroxylamine hydrochloride solution in 25% v/v acetic acid, centrifuged and filtered. 5 mL of the resulting leachate was digested using method 3010A and analyzed by method 6010B. Results are reported in mg/kg on a dry weight basis.
· Step 5 - Organic-bound Fraction: The sample residue from step 4 was extracted three times with 25 mL of 5% sodium hypochlorite (NaClO) at pH 9.5, centrifuged and filtered. The resulting leachates were combined and 5 mL were digested using method 3010A and analyzed by method 6010B. Results are reported in mg/kg on a dry weight basis.
· Step 6 - Acid/Sulfide Fraction: The sample residue from step 5 was extracted with 25 mL of a 3:1:2 v/v solution of HCl-HNO3-H2O, centrifuged and filtered. 5 mL of the resulting leachate was diluted to 50 mL with reagent water and analyzed by method 6010B. Results are reported in mg/kg on a dry weight basis.
· Step 7 - Residual Fraction: A 1.0 g aliquot of the sample residue from step 6 was digested using HF, HNO3, HCl and H3BO3. The digestate was analyzed by ICP using method 6010B. Results are reported in mg/kg on a dry weight basis.

In addition, a 1.0 g aliquot of the original sample was digested using HF, HNO3, HCl and H3BO3. The digestate was analyzed by ICP using method 6010B. Total metal results are reported in mg/kg on a dry weight basis.

Results were calculated using the following equation:

Result, µg/g or mg/Kg, dry weight = (C × V × V1 × D) / (W × S × V2)

Where:
C = Concentration from instrument readout, µg/mL
V = Final volume of digestate, mL
D = Instrument dilution factor
V1 = Total volume of leachate, mL
V2 = Volume of leachate digested, mL
W = Wet weight of sample, g

Job ID: 140-19131-1 (Continued)

Laboratory: Eurofins TestAmerica, Knoxville (Continued)

S = Percent solids/100

A method blank, laboratory control sample and laboratory control sample duplicate were prepared and analyzed with each SEP step in order to provide information about both the presence of elements of interest in the extraction solutions, and the recovery of elements of interest from the extraction solutions. Results outside of laboratory QC limits do not reflect out of control performance, but rather the effect of the extraction solution upon the analyte.

A laboratory sample duplicate was prepared and analyzed with each batch of samples in order to provide information regarding the reproducibility of the procedure.

SEP Report Notes:

The final report lists the results for each step, the result for the total digestion of the sample, and a sum of the results of steps 1 through 7 by element.

The digestates for steps 1, 2 and 5 were analyzed at a dilution due to instrument problems caused by the high solids content of the digestates. The reporting limits were adjusted accordingly.

Method 6010B: The following samples were diluted due to the presence of Iron which interferes with Cadmium and Selenium: BRGWA-2S(2) 39 FT BGS (140-19131-1), BRGWA-2S(2) 43 FT BGS (140-19131-2), BRGWA-5S(2) 38 FT BGS (140-19131-3), BRGWA-5S(2) 32 FT BGS (140-19131-4), BRGWA-6S(2) 42 FT BGS (140-19131-5), BRGWA-6S(2) 48 FT BGS (140-19131-6), PZ-52D 18 FT BGS (140-19131-7), BRGWC-50(2) 63-63.5 FT BGS (140-19131-10) and PZ-53D 30 FT BGS (140-19131-11). Elevated reporting limits (RLs) are provided.

Method 6010B: The following samples were diluted due to the presence of Manganese which interferes with Selenium: BRGWA-2S(2) 39 FT BGS (140-19131-1) and PZ-52D 18 FT BGS (140-19131-7). Elevated reporting limits (RLs) are provided.

Method 6010B: The following samples were diluted due to the presence of titanium which interferes with Cobalt: BRGWA-2S(2) 39 FT BGS (140-19131-1), BRGWA-2S(2) 43 FT BGS (140-19131-2), BRGWA-5S(2) 38 FT BGS (140-19131-3), BRGWA-5S(2) 32 FT BGS (140-19131-4), BRGWA-6S(2) 42 FT BGS (140-19131-5), BRGWA-6S(2) 48 FT BGS (140-19131-6), PZ-52D 18 FT BGS (140-19131-7), PZ-52D 24-25 FT BGS (140-19131-8), BRGWC-50(2) 59 FT BGS (140-19131-9), BRGWC-50(2) 63-63.5 FT BGS (140-19131-10), PZ-53D 30 FT BGS (140-19131-11) and PZ-53D 36 FT BGS (140-19131-12). Elevated reporting limits (RLs) are provided.

Method 6010B: The following samples were diluted to bring the concentration of target analyte, aluminum, within the calibration range: BRGWA-2S(2) 39 FT BGS (140-19131-1), BRGWA-2S(2) 43 FT BGS (140-19131-2), BRGWA-5S(2) 38 FT BGS (140-19131-3), BRGWA-5S(2) 32 FT BGS (140-19131-4), BRGWA-6S(2) 42 FT BGS (140-19131-5), BRGWA-6S(2) 48 FT BGS (140-19131-6), PZ-52D 18 FT BGS (140-19131-7), PZ-52D 24-25 FT BGS (140-19131-8), BRGWC-50(2) 59 FT BGS (140-19131-9), BRGWC-50(2) 63-63.5 FT BGS (140-19131-10), PZ-53D 30 FT BGS (140-19131-11) and PZ-53D 36 FT BGS (140-19131-12). Elevated reporting limits (RLs) are provided.

Method 6010B: Due to sample matrix effect on the internal standard (ISTD), a dilution was required for the following samples: BRGWA-6S(2) 42 FT BGS (140-19131-5) and BRGWC-50(2) 63-63.5 FT BGS (140-19131-10).

Method 6010B SEP: The following sample was diluted due to the presence of silicon which interferes with Selenium: BRGWA-2S(2) 39 FT BGS (140-19131-1). Elevated reporting limits (RLs) are provided.

Method 6010B SEP: The following samples were diluted due to the nature of the sample matrix: BRGWA-2S(2) 39 FT BGS (140-19131-1), BRGWA-2S(2) 43 FT BGS (140-19131-2), BRGWA-5S(2) 38 FT BGS (140-19131-3), BRGWA-5S(2) 32 FT BGS (140-19131-4), BRGWA-6S(2) 42 FT BGS (140-19131-5), BRGWA-6S(2) 48 FT BGS (140-19131-6), PZ-52D 18 FT BGS (140-19131-7), PZ-52D 24-25 FT BGS (140-19131-8), BRGWC-50(2) 59 FT BGS (140-19131-9), BRGWC-50(2) 63-63.5 FT BGS (140-19131-10), PZ-53D 30 FT BGS (140-19131-11) and PZ-53D 36 FT BGS (140-19131-12). Elevated reporting limits (RLs) are provided for aluminum. The serial dilution analysis indicated a matrix issue with the results for aluminum increasing with dilution.

Job ID: 140-19131-1 (Continued)

Laboratory: Eurofins TestAmerica, Knoxville (Continued)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

% Moisture: The samples were analyzed for percent moisture using SOP number KNOX-WC-0012 (based on Modified MCAWW 160.3 and SM2540B and on the percent moisture determinations described in methods 3540C and 3550B).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Sample Summary

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-19131-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
140-19131-1	BRGWA-2S(2) 39 FT BGS	Solid	05/13/20 14:30	05/20/20 09:45	
140-19131-2	BRGWA-2S(2) 43 FT BGS	Solid	05/13/20 14:40	05/20/20 09:45	
140-19131-3	BRGWA-5S(2) 38 FT BGS	Solid	05/14/20 07:40	05/20/20 09:45	
140-19131-4	BRGWA-5S(2) 32 FT BGS	Solid	05/14/20 07:50	05/20/20 09:45	
140-19131-5	BRGWA-6S(2) 42 FT BGS	Solid	05/14/20 12:05	05/20/20 09:45	
140-19131-6	BRGWA-6S(2) 48 FT BGS	Solid	05/14/20 12:15	05/20/20 09:45	
140-19131-7	PZ-52D 18 FT BGS	Solid	05/14/20 14:40	05/20/20 09:45	
140-19131-8	PZ-52D 24-25 FT BGS	Solid	05/14/20 14:50	05/20/20 09:45	
140-19131-9	BRGWC-50(2) 59 FT BGS	Solid	05/15/20 09:00	05/20/20 09:45	
140-19131-10	BRGWC-50(2) 63-63.5 FT BGS	Solid	05/15/20 09:20	05/20/20 09:45	
140-19131-11	PZ-53D 30 FT BGS	Solid	05/16/20 16:15	05/20/20 09:45	
140-19131-12	PZ-53D 36 FT BGS	Solid	05/16/20 16:25	05/20/20 09:45	

Client Sample ID: BRGWA-2S(2) 39 FT BGS
Date Collected: 05/13/20 14:30
Date Received: 05/20/20 09:45

Lab Sample ID: 140-19131-1
Matrix: Solid
Percent Solids: 71.0

Method: 6010B SEP - SEP Metals (ICP) - Step 1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		56	9.0	mg/Kg	☼	06/02/20 08:00	06/16/20 12:21	4
Beryllium	ND		1.4	0.43	mg/Kg	☼	06/02/20 08:00	06/16/20 12:21	4
Cadmium	ND		1.4	0.090	mg/Kg	☼	06/02/20 08:00	06/16/20 12:21	4
Cobalt	ND		14	0.25	mg/Kg	☼	06/02/20 08:00	06/16/20 12:21	4
Iron	ND		28	16	mg/Kg	☼	06/02/20 08:00	06/16/20 12:21	4
Manganese	**0.37**	**J**	4.2	0.17	mg/Kg	☼	06/02/20 08:00	06/16/20 12:21	4
Selenium	ND		2.8	0.96	mg/Kg	☼	06/02/20 08:00	06/16/20 12:21	4

Method: 6010B SEP - SEP Metals (ICP) - Step 2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**8.9**	**J ***	42	6.8	mg/Kg	☼	06/03/20 08:00	06/16/20 14:15	3
Beryllium	ND	*	1.1	0.068	mg/Kg	☼	06/03/20 08:00	06/16/20 14:15	3
Cadmium	ND		1.1	0.046	mg/Kg	☼	06/03/20 08:00	06/16/20 14:15	3
Cobalt	ND		11	0.27	mg/Kg	☼	06/03/20 08:00	06/16/20 14:15	3
Iron	ND	*	21	12	mg/Kg	☼	06/03/20 08:00	06/16/20 14:15	3
Manganese	ND		3.2	1.2	mg/Kg	☼	06/03/20 08:00	06/16/20 14:15	3
Selenium	ND		2.1	0.72	mg/Kg	☼	06/03/20 08:00	06/16/20 14:15	3

Method: 6010B SEP - SEP Metals (ICP) - Step 3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**270**		14	3.0	mg/Kg	☼	06/08/20 08:00	06/18/20 12:10	1
Beryllium	**0.16**	**J**	0.35	0.021	mg/Kg	☼	06/08/20 08:00	06/18/20 12:10	1
Cadmium	**0.016**	**J B ***	0.35	0.015	mg/Kg	☼	06/08/20 08:00	06/18/20 12:10	1
Cobalt	**14**		3.5	0.063	mg/Kg	☼	06/08/20 08:00	06/18/20 12:10	1
Iron	**2000**		7.0	4.1	mg/Kg	☼	06/08/20 08:00	06/18/20 12:10	1
Manganese	**320**	**B**	1.1	0.038	mg/Kg	☼	06/08/20 08:00	06/18/20 12:10	1
Selenium	**0.45**	**J**	0.70	0.24	mg/Kg	☼	06/08/20 08:00	06/18/20 12:10	1

Method: 6010B SEP - SEP Metals (ICP) - Step 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**1900**		14	2.3	mg/Kg	☼	06/10/20 08:00	06/18/20 14:04	1
Beryllium	**0.77**		0.35	0.023	mg/Kg	☼	06/10/20 08:00	06/18/20 14:04	1
Cadmium	ND		0.35	0.015	mg/Kg	☼	06/10/20 08:00	06/18/20 14:04	1
Cobalt	**6.5**		3.5	0.075	mg/Kg	☼	06/10/20 08:00	06/18/20 14:04	1
Iron	**17000**		7.0	4.1	mg/Kg	☼	06/10/20 08:00	06/18/20 14:04	1
Manganese	**240**		1.1	0.18	mg/Kg	☼	06/10/20 08:00	06/18/20 14:04	1
Selenium	**1.5**	**B ***	0.70	0.66	mg/Kg	☼	06/10/20 08:00	06/18/20 14:04	1

Method: 6010B SEP - SEP Metals (ICP) - Step 5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**210**	**** *1**	210	33	mg/Kg	☼	06/12/20 08:00	06/19/20 11:43	5
Beryllium	ND	*	5.3	0.44	mg/Kg	☼	06/12/20 08:00	06/19/20 11:43	5
Cadmium	ND		5.3	0.23	mg/Kg	☼	06/12/20 08:00	06/19/20 11:43	5
Cobalt	ND	*	53	0.84	mg/Kg	☼	06/12/20 08:00	06/19/20 11:43	5
Iron	ND	* *1	110	62	mg/Kg	☼	06/12/20 08:00	06/19/20 11:43	5
Manganese	**3.0**	**J ***	16	2.6	mg/Kg	☼	06/12/20 08:00	06/19/20 11:43	5
Selenium	ND		11	3.7	mg/Kg	☼	06/12/20 08:00	06/19/20 11:43	5

Method: 6010B SEP - SEP Metals (ICP) - Step 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**14000**		14	2.3	mg/Kg	☼	06/12/20 08:00	06/19/20 13:38	1

Client Sample ID: BRGWA-2S(2) 39 FT BGS

Date Collected: 05/13/20 14:30
Date Received: 05/20/20 09:45

Lab Sample ID: 140-19131-1

Matrix: Solid
Percent Solids: 71.0

Method: 6010B SEP - SEP Metals (ICP) - Step 6 (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	**0.29**	**J**	0.35	0.017	mg/Kg	☼	06/12/20 08:00	06/19/20 13:38	1
Cadmium	ND	L	0.35	0.015	mg/Kg	☼	06/12/20 08:00	06/19/20 13:38	1
Cobalt	**8.3**		7.0	0.13	mg/Kg	☼	06/12/20 08:00	06/19/20 16:54	2
Iron	**24000**		7.0	4.1	mg/Kg	☼	06/12/20 08:00	06/19/20 13:38	1
Manganese	**71**		1.1	0.35	mg/Kg	☼	06/12/20 08:00	06/19/20 13:38	1
Selenium	**0.79**		0.70	0.24	mg/Kg	☼	06/12/20 08:00	06/19/20 13:38	1

Method: 6010B SEP - SEP Metals (ICP) - Step 7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**52000**		140	23	mg/Kg	☼	06/15/20 08:00	06/22/20 15:00	10
Beryllium	ND		0.35	0.011	mg/Kg	☼	06/15/20 08:00	06/22/20 13:18	1
Cadmium	**0.21**	**J**	1.8	0.077	mg/Kg	☼	06/15/20 08:00	06/22/20 16:27	5
Cobalt	**8.1**	**J**	18	0.18	mg/Kg	☼	06/15/20 08:00	06/22/20 16:27	5
Iron	**39000**		35	29	mg/Kg	☼	06/15/20 08:00	06/22/20 16:27	5
Manganese	**290**		1.1	0.15	mg/Kg	☼	06/15/20 08:00	06/22/20 13:18	1
Selenium	ND		3.5	1.2	mg/Kg	☼	06/15/20 08:00	06/22/20 16:27	5

Method: 6010B SEP - SEP Metals (ICP) - Sum of Steps 1-7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**69000**		10	1.6	mg/Kg			06/25/20 11:53	1
Beryllium	**1.2**		0.25	0.0075	mg/Kg			06/25/20 11:53	1
Cadmium	**0.22**	**J**	0.25	0.011	mg/Kg			06/25/20 11:53	1
Cobalt	**36**		2.5	0.023	mg/Kg			06/25/20 11:53	1
Iron	**82000**		5.0	4.1	mg/Kg			06/25/20 11:53	1
Manganese	**930**		0.75	0.052	mg/Kg			06/25/20 11:53	1
Selenium	**2.8**		0.50	0.17	mg/Kg			06/25/20 11:53	1

Method: 6010B - SEP Metals (ICP) - Total

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**92000**		140	23	mg/Kg	☼	05/29/20 08:00	06/23/20 14:27	10
Beryllium	**0.66**		0.35	0.011	mg/Kg	☼	05/29/20 08:00	06/23/20 12:43	1
Cadmium	**1.4**	**J**	3.5	0.15	mg/Kg	☼	05/29/20 08:00	06/23/20 14:27	10
Cobalt	**72**		70	0.73	mg/Kg	☼	05/29/20 08:00	06/23/20 17:24	20
Iron	**97000**		70	58	mg/Kg	☼	05/29/20 08:00	06/23/20 14:27	10
Manganese	**1700**		2.1	0.31	mg/Kg	☼	05/29/20 08:00	06/23/20 16:04	2
Selenium	**3.2**	**J**	7.0	2.4	mg/Kg	☼	05/29/20 08:00	06/23/20 14:27	10

Client Sample ID: BRGWA-2S(2) 43 FT BGS

Date Collected: 05/13/20 14:40
Date Received: 05/20/20 09:45

Lab Sample ID: 140-19131-2

Matrix: Solid
Percent Solids: 75.0

Method: 6010B SEP - SEP Metals (ICP) - Step 1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		53	8.5	mg/Kg	☼	06/02/20 08:00	06/16/20 12:26	4
Beryllium	ND		1.3	0.41	mg/Kg	☼	06/02/20 08:00	06/16/20 12:26	4
Cadmium	ND		1.3	0.085	mg/Kg	☼	06/02/20 08:00	06/16/20 12:26	4
Cobalt	ND		13	0.24	mg/Kg	☼	06/02/20 08:00	06/16/20 12:26	4
Iron	ND		27	15	mg/Kg	☼	06/02/20 08:00	06/16/20 12:26	4
Manganese	**0.80**	**J**	4.0	0.17	mg/Kg	☼	06/02/20 08:00	06/16/20 12:26	4
Selenium	ND		2.7	0.91	mg/Kg	☼	06/02/20 08:00	06/16/20 12:26	4

Method: 6010B SEP - SEP Metals (ICP) - Step 2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**7.6**	**J ***	40	6.4	mg/Kg	☼	06/03/20 08:00	06/16/20 14:20	3
Beryllium	ND	*	1.0	0.064	mg/Kg	☼	06/03/20 08:00	06/16/20 14:20	3
Cadmium	ND		1.0	0.044	mg/Kg	☼	06/03/20 08:00	06/16/20 14:20	3
Cobalt	ND		10	0.25	mg/Kg	☼	06/03/20 08:00	06/16/20 14:20	3
Iron	ND	*	20	12	mg/Kg	☼	06/03/20 08:00	06/16/20 14:20	3
Manganese	ND		3.0	1.1	mg/Kg	☼	06/03/20 08:00	06/16/20 14:20	3
Selenium	ND		2.0	0.68	mg/Kg	☼	06/03/20 08:00	06/16/20 14:20	3

Method: 6010B SEP - SEP Metals (ICP) - Step 3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**290**		13	2.8	mg/Kg	☼	06/08/20 08:00	06/18/20 12:15	1
Beryllium	**0.15**	**J**	0.33	0.020	mg/Kg	☼	06/08/20 08:00	06/18/20 12:15	1
Cadmium	ND	*	0.33	0.015	mg/Kg	☼	06/08/20 08:00	06/18/20 12:15	1
Cobalt	**14**		3.3	0.060	mg/Kg	☼	06/08/20 08:00	06/18/20 12:15	1
Iron	**1100**		6.7	3.9	mg/Kg	☼	06/08/20 08:00	06/18/20 12:15	1
Manganese	**94**	**B**	1.0	0.036	mg/Kg	☼	06/08/20 08:00	06/18/20 12:15	1
Selenium	**0.38**	**J**	0.67	0.23	mg/Kg	☼	06/08/20 08:00	06/18/20 12:15	1

Method: 6010B SEP - SEP Metals (ICP) - Step 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**2400**		13	2.1	mg/Kg	☼	06/10/20 08:00	06/18/20 14:10	1
Beryllium	**0.47**		0.33	0.021	mg/Kg	☼	06/10/20 08:00	06/18/20 14:10	1
Cadmium	ND		0.33	0.015	mg/Kg	☼	06/10/20 08:00	06/18/20 14:10	1
Cobalt	**13**		3.3	0.071	mg/Kg	☼	06/10/20 08:00	06/18/20 14:10	1
Iron	**10000**		6.7	3.9	mg/Kg	☼	06/10/20 08:00	06/18/20 14:10	1
Manganese	**89**		1.0	0.17	mg/Kg	☼	06/10/20 08:00	06/18/20 14:10	1
Selenium	**1.1**	**B ***	0.67	0.63	mg/Kg	☼	06/10/20 08:00	06/18/20 14:10	1

Method: 6010B SEP - SEP Metals (ICP) - Step 5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**240**	*** *1**	200	31	mg/Kg	☼	06/12/20 08:00	06/19/20 11:48	5
Beryllium	ND	*	5.0	0.42	mg/Kg	☼	06/12/20 08:00	06/19/20 11:48	5
Cadmium	ND		5.0	0.21	mg/Kg	☼	06/12/20 08:00	06/19/20 11:48	5
Cobalt	ND	*	50	0.80	mg/Kg	☼	06/12/20 08:00	06/19/20 11:48	5
Iron	ND	* *1	100	59	mg/Kg	☼	06/12/20 08:00	06/19/20 11:48	5
Manganese	ND	*	15	2.5	mg/Kg	☼	06/12/20 08:00	06/19/20 11:48	5
Selenium	**4.2**	**J**	10	3.5	mg/Kg	☼	06/12/20 08:00	06/19/20 11:48	5

Method: 6010B SEP - SEP Metals (ICP) - Step 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**15000**		13	2.1	mg/Kg	☼	06/12/20 08:00	06/19/20 13:43	1

Client Sample ID: BRGWA-2S(2) 43 FT BGS

Date Collected: 05/13/20 14:40
Date Received: 05/20/20 09:45

Lab Sample ID: 140-19131-2

Matrix: Solid
Percent Solids: 75.0

Method: 6010B SEP - SEP Metals (ICP) - Step 6 (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.16	J	0.33	0.016	mg/Kg	☼	06/12/20 08:00	06/19/20 13:43	1
Cadmium	ND		0.33	0.015	mg/Kg	☼	06/12/20 08:00	06/19/20 13:43	1
Cobalt	5.2		3.3	0.061	mg/Kg	☼	06/12/20 08:00	06/19/20 13:43	1
Iron	15000		6.7	3.9	mg/Kg	☼	06/12/20 08:00	06/19/20 13:43	1
Manganese	32		1.0	0.33	mg/Kg	☼	06/12/20 08:00	06/19/20 13:43	1
Selenium	0.64	J	0.67	0.23	mg/Kg	☼	06/12/20 08:00	06/19/20 13:43	1

Method: 6010B SEP - SEP Metals (ICP) - Step 7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	36000		130	21	mg/Kg	☼	06/15/20 08:00	06/22/20 15:05	10
Beryllium	ND		0.33	0.010	mg/Kg	☼	06/15/20 08:00	06/22/20 13:23	1
Cadmium	0.59	J	1.7	0.073	mg/Kg	☼	06/15/20 08:00	06/22/20 16:32	5
Cobalt	28	J	33	0.35	mg/Kg	☼	06/15/20 08:00	06/22/20 15:05	10
Iron	71000		33	27	mg/Kg	☼	06/15/20 08:00	06/22/20 16:32	5
Manganese	840		1.0	0.15	mg/Kg	☼	06/15/20 08:00	06/22/20 13:23	1
Selenium	3.0	J	3.3	1.1	mg/Kg	☼	06/15/20 08:00	06/22/20 16:32	5

Method: 6010B SEP - SEP Metals (ICP) - Sum of Steps 1-7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	55000		10	1.6	mg/Kg			06/25/20 11:53	1
Beryllium	0.78		0.25	0.0075	mg/Kg			06/25/20 11:53	1
Cadmium	0.59		0.25	0.011	mg/Kg			06/25/20 11:53	1
Cobalt	60		2.5	0.023	mg/Kg			06/25/20 11:53	1
Iron	97000		5.0	4.1	mg/Kg			06/25/20 11:53	1
Manganese	1100		0.75	0.052	mg/Kg			06/25/20 11:53	1
Selenium	9.4		0.50	0.17	mg/Kg			06/25/20 11:53	1

Method: 6010B - SEP Metals (ICP) - Total

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	80000		130	21	mg/Kg	☼	05/29/20 08:00	06/23/20 14:32	10
Beryllium	0.46		0.33	0.010	mg/Kg	☼	05/29/20 08:00	06/23/20 12:49	1
Cadmium	1.6	J	3.3	0.15	mg/Kg	☼	05/29/20 08:00	06/23/20 14:32	10
Cobalt	54	J	67	0.69	mg/Kg	☼	05/29/20 08:00	06/23/20 17:29	20
Iron	98000		67	55	mg/Kg	☼	05/29/20 08:00	06/23/20 14:32	10
Manganese	840		1.0	0.15	mg/Kg	☼	05/29/20 08:00	06/23/20 12:49	1
Selenium	3.9	J	6.7	2.3	mg/Kg	☼	05/29/20 08:00	06/23/20 14:32	10

Client Sample ID: BRGWA-5S(2) 38 FT BGS

Date Collected: 05/14/20 07:40
Date Received: 05/20/20 09:45

Lab Sample ID: 140-19131-3

Matrix: Solid
Percent Solids: 84.1

Method: 6010B SEP - SEP Metals (ICP) - Step 1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		48	7.6	mg/Kg	☼	06/02/20 08:00	06/16/20 12:31	4
Beryllium	ND		1.2	0.37	mg/Kg	☼	06/02/20 08:00	06/16/20 12:31	4
Cadmium	ND		1.2	0.076	mg/Kg	☼	06/02/20 08:00	06/16/20 12:31	4
Cobalt	ND		12	0.21	mg/Kg	☼	06/02/20 08:00	06/16/20 12:31	4
Iron	ND		24	14	mg/Kg	☼	06/02/20 08:00	06/16/20 12:31	4
Manganese	**0.44**	**J**	3.6	0.15	mg/Kg	☼	06/02/20 08:00	06/16/20 12:31	4
Selenium	ND		2.4	0.81	mg/Kg	☼	06/02/20 08:00	06/16/20 12:31	4

Method: 6010B SEP - SEP Metals (ICP) - Step 2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**6.2**	**J ***	36	5.7	mg/Kg	☼	06/03/20 08:00	06/16/20 14:25	3
Beryllium	ND	*	0.89	0.057	mg/Kg	☼	06/03/20 08:00	06/16/20 14:25	3
Cadmium	ND		0.89	0.039	mg/Kg	☼	06/03/20 08:00	06/16/20 14:25	3
Cobalt	ND		8.9	0.22	mg/Kg	☼	06/03/20 08:00	06/16/20 14:25	3
Iron	ND	*	18	10	mg/Kg	☼	06/03/20 08:00	06/16/20 14:25	3
Manganese	ND		2.7	1.0	mg/Kg	☼	06/03/20 08:00	06/16/20 14:25	3
Selenium	**0.72**	**J**	1.8	0.61	mg/Kg	☼	06/03/20 08:00	06/16/20 14:25	3

Method: 6010B SEP - SEP Metals (ICP) - Step 3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**130**		12	2.5	mg/Kg	☼	06/08/20 08:00	06/18/20 12:20	1
Beryllium	**0.073**	**J**	0.30	0.018	mg/Kg	☼	06/08/20 08:00	06/18/20 12:20	1
Cadmium	**0.023**	**J B ***	0.30	0.013	mg/Kg	☼	06/08/20 08:00	06/18/20 12:20	1
Cobalt	**6.0**		3.0	0.053	mg/Kg	☼	06/08/20 08:00	06/18/20 12:20	1
Iron	**410**		5.9	3.4	mg/Kg	☼	06/08/20 08:00	06/18/20 12:20	1
Manganese	**78**	**B**	0.89	0.032	mg/Kg	☼	06/08/20 08:00	06/18/20 12:20	1
Selenium	ND		0.59	0.20	mg/Kg	☼	06/08/20 08:00	06/18/20 12:20	1

Method: 6010B SEP - SEP Metals (ICP) - Step 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**1900**		12	1.9	mg/Kg	☼	06/10/20 08:00	06/18/20 14:15	1
Beryllium	**0.21**	**J**	0.30	0.019	mg/Kg	☼	06/10/20 08:00	06/18/20 14:15	1
Cadmium	ND		0.30	0.013	mg/Kg	☼	06/10/20 08:00	06/18/20 14:15	1
Cobalt	**2.9**	**J**	3.0	0.063	mg/Kg	☼	06/10/20 08:00	06/18/20 14:15	1
Iron	**4500**		5.9	3.4	mg/Kg	☼	06/10/20 08:00	06/18/20 14:15	1
Manganese	**40**		0.89	0.15	mg/Kg	☼	06/10/20 08:00	06/18/20 14:15	1
Selenium	**1.0**	**B ***	0.59	0.56	mg/Kg	☼	06/10/20 08:00	06/18/20 14:15	1

Method: 6010B SEP - SEP Metals (ICP) - Step 5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**77**	**J * *1**	180	28	mg/Kg	☼	06/12/20 08:00	06/19/20 11:53	5
Beryllium	ND	*	4.5	0.37	mg/Kg	☼	06/12/20 08:00	06/19/20 11:53	5
Cadmium	ND		4.5	0.19	mg/Kg	☼	06/12/20 08:00	06/19/20 11:53	5
Cobalt	ND	*	45	0.71	mg/Kg	☼	06/12/20 08:00	06/19/20 11:53	5
Iron	ND	* *1	89	52	mg/Kg	☼	06/12/20 08:00	06/19/20 11:53	5
Manganese	ND	*	13	2.2	mg/Kg	☼	06/12/20 08:00	06/19/20 11:53	5
Selenium	ND		8.9	3.1	mg/Kg	☼	06/12/20 08:00	06/19/20 11:53	5

Method: 6010B SEP - SEP Metals (ICP) - Step 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**11000**		12	1.9	mg/Kg	☼	06/12/20 08:00	06/19/20 13:48	1

Client Sample ID: BRGWA-5S(2) 38 FT BGS

Date Collected: 05/14/20 07:40
Date Received: 05/20/20 09:45

Lab Sample ID: 140-19131-3

Matrix: Solid
Percent Solids: 84.1

Method: 6010B SEP - SEP Metals (ICP) - Step 6 (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.075	J	0.30	0.014	mg/Kg	☼	06/12/20 08:00	06/19/20 13:48	1
Cadmium	ND		0.30	0.013	mg/Kg	☼	06/12/20 08:00	06/19/20 13:48	1
Cobalt	5.4		3.0	0.055	mg/Kg	☼	06/12/20 08:00	06/19/20 13:48	1
Iron	11000		5.9	3.4	mg/Kg	☼	06/12/20 08:00	06/19/20 13:48	1
Manganese	42		0.89	0.30	mg/Kg	☼	06/12/20 08:00	06/19/20 13:48	1
Selenium	0.41	J	0.59	0.20	mg/Kg	☼	06/12/20 08:00	06/19/20 13:48	1

Method: 6010B SEP - SEP Metals (ICP) - Step 7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	34000		120	19	mg/Kg	☼	06/15/20 08:00	06/22/20 15:10	10
Beryllium	0.33		0.30	0.0089	mg/Kg	☼	06/15/20 08:00	06/22/20 13:29	1
Cadmium	ND		1.5	0.065	mg/Kg	☼	06/15/20 08:00	06/22/20 16:37	5
Cobalt	15		15	0.15	mg/Kg	☼	06/15/20 08:00	06/22/20 16:37	5
Iron	45000		30	24	mg/Kg	☼	06/15/20 08:00	06/22/20 16:37	5
Manganese	580		0.89	0.13	mg/Kg	☼	06/15/20 08:00	06/22/20 13:29	1
Selenium	1.2	J	3.0	1.0	mg/Kg	☼	06/15/20 08:00	06/22/20 16:37	5

Method: 6010B SEP - SEP Metals (ICP) - Sum of Steps 1-7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	47000		10	1.6	mg/Kg			06/25/20 11:53	1
Beryllium	0.69		0.25	0.0075	mg/Kg			06/25/20 11:53	1
Cadmium	0.023	J	0.25	0.011	mg/Kg			06/25/20 11:53	1
Cobalt	30		2.5	0.023	mg/Kg			06/25/20 11:53	1
Iron	60000		5.0	4.1	mg/Kg			06/25/20 11:53	1
Manganese	740		0.75	0.052	mg/Kg			06/25/20 11:53	1
Selenium	3.4		0.50	0.17	mg/Kg			06/25/20 11:53	1

Method: 6010B - SEP Metals (ICP) - Total

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	86000		120	19	mg/Kg	☼	05/29/20 08:00	06/23/20 14:37	10
Beryllium	0.60		0.30	0.0089	mg/Kg	☼	05/29/20 08:00	06/23/20 12:54	1
Cadmium	2.2		0.59	0.026	mg/Kg	☼	05/29/20 08:00	06/23/20 16:15	2
Cobalt	43		30	0.31	mg/Kg	☼	05/29/20 08:00	06/23/20 14:37	10
Iron	56000		12	9.7	mg/Kg	☼	05/29/20 08:00	06/23/20 16:15	2
Manganese	750		0.89	0.13	mg/Kg	☼	05/29/20 08:00	06/23/20 12:54	1
Selenium	ND		1.2	0.40	mg/Kg	☼	05/29/20 08:00	06/23/20 16:15	2

Client Sample ID: BRGWA-5S(2) 32 FT BGS

Date Collected: 05/14/20 07:50
Date Received: 05/20/20 09:45

Lab Sample ID: 140-19131-4

Matrix: Solid
Percent Solids: 82.3

Method: 6010B SEP - SEP Metals (ICP) - Step 1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		49	7.8	mg/Kg	☼	06/02/20 08:00	06/16/20 12:36	4
Beryllium	ND		1.2	0.37	mg/Kg	☼	06/02/20 08:00	06/16/20 12:36	4
Cadmium	ND		1.2	0.078	mg/Kg	☼	06/02/20 08:00	06/16/20 12:36	4
Cobalt	ND		12	0.22	mg/Kg	☼	06/02/20 08:00	06/16/20 12:36	4
Iron	ND		24	14	mg/Kg	☼	06/02/20 08:00	06/16/20 12:36	4
Manganese	**0.43**	**J**	3.6	0.15	mg/Kg	☼	06/02/20 08:00	06/16/20 12:36	4
Selenium	ND		2.4	0.83	mg/Kg	☼	06/02/20 08:00	06/16/20 12:36	4

Method: 6010B SEP - SEP Metals (ICP) - Step 2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**7.5**	**J ***	36	5.8	mg/Kg	☼	06/03/20 08:00	06/16/20 14:31	3
Beryllium	ND	*	0.91	0.058	mg/Kg	☼	06/03/20 08:00	06/16/20 14:31	3
Cadmium	ND		0.91	0.040	mg/Kg	☼	06/03/20 08:00	06/16/20 14:31	3
Cobalt	ND		9.1	0.23	mg/Kg	☼	06/03/20 08:00	06/16/20 14:31	3
Iron	ND	*	18	11	mg/Kg	☼	06/03/20 08:00	06/16/20 14:31	3
Manganese	ND		2.7	1.0	mg/Kg	☼	06/03/20 08:00	06/16/20 14:31	3
Selenium	**0.73**	**J**	1.8	0.62	mg/Kg	☼	06/03/20 08:00	06/16/20 14:31	3

Method: 6010B SEP - SEP Metals (ICP) - Step 3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**140**		12	2.6	mg/Kg	☼	06/08/20 08:00	06/18/20 12:26	1
Beryllium	**0.089**	**J**	0.30	0.018	mg/Kg	☼	06/08/20 08:00	06/18/20 12:26	1
Cadmium	**0.021**	**J B ***	0.30	0.013	mg/Kg	☼	06/08/20 08:00	06/18/20 12:26	1
Cobalt	**4.9**		3.0	0.055	mg/Kg	☼	06/08/20 08:00	06/18/20 12:26	1
Iron	**590**		6.1	3.5	mg/Kg	☼	06/08/20 08:00	06/18/20 12:26	1
Manganese	**120**	**B**	0.91	0.033	mg/Kg	☼	06/08/20 08:00	06/18/20 12:26	1
Selenium	ND		0.61	0.21	mg/Kg	☼	06/08/20 08:00	06/18/20 12:26	1

Method: 6010B SEP - SEP Metals (ICP) - Step 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**1800**		12	1.9	mg/Kg	☼	06/10/20 08:00	06/18/20 14:20	1
Beryllium	**0.25**	**J**	0.30	0.019	mg/Kg	☼	06/10/20 08:00	06/18/20 14:20	1
Cadmium	**0.018**	**J**	0.30	0.013	mg/Kg	☼	06/10/20 08:00	06/18/20 14:20	1
Cobalt	**2.7**	**J**	3.0	0.064	mg/Kg	☼	06/10/20 08:00	06/18/20 14:20	1
Iron	**4700**		6.1	3.5	mg/Kg	☼	06/10/20 08:00	06/18/20 14:20	1
Manganese	**65**		0.91	0.16	mg/Kg	☼	06/10/20 08:00	06/18/20 14:20	1
Selenium	**0.90**	**B ***	0.61	0.57	mg/Kg	☼	06/10/20 08:00	06/18/20 14:20	1

Method: 6010B SEP - SEP Metals (ICP) - Step 5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**160**	**J * *1**	180	29	mg/Kg	☼	06/12/20 08:00	06/19/20 11:58	5
Beryllium	ND	*	4.6	0.38	mg/Kg	☼	06/12/20 08:00	06/19/20 11:58	5
Cadmium	ND		4.6	0.19	mg/Kg	☼	06/12/20 08:00	06/19/20 11:58	5
Cobalt	ND	*	46	0.73	mg/Kg	☼	06/12/20 08:00	06/19/20 11:58	5
Iron	ND	* *1	91	53	mg/Kg	☼	06/12/20 08:00	06/19/20 11:58	5
Manganese	ND	*	14	2.2	mg/Kg	☼	06/12/20 08:00	06/19/20 11:58	5
Selenium	ND		9.1	3.2	mg/Kg	☼	06/12/20 08:00	06/19/20 11:58	5

Method: 6010B SEP - SEP Metals (ICP) - Step 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**9000**		12	1.9	mg/Kg	☼	06/12/20 08:00	06/19/20 13:53	1

Client Sample ID: BRGWA-5S(2) 32 FT BGS

Date Collected: 05/14/20 07:50
Date Received: 05/20/20 09:45

Lab Sample ID: 140-19131-4

Matrix: Solid
Percent Solids: 82.3

Method: 6010B SEP - SEP Metals (ICP) - Step 6 (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.082	J	0.30	0.015	mg/Kg	☼	06/12/20 08:00	06/19/20 13:53	1
Cadmium	ND		0.30	0.013	mg/Kg	☼	06/12/20 08:00	06/19/20 13:53	1
Cobalt	4.0		3.0	0.056	mg/Kg	☼	06/12/20 08:00	06/19/20 13:53	1
Iron	9100		6.1	3.5	mg/Kg	☼	06/12/20 08:00	06/19/20 13:53	1
Manganese	32		0.91	0.30	mg/Kg	☼	06/12/20 08:00	06/19/20 13:53	1
Selenium	ND		0.61	0.21	mg/Kg	☼	06/12/20 08:00	06/19/20 13:53	1

Method: 6010B SEP - SEP Metals (ICP) - Step 7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	37000		120	19	mg/Kg	☼	06/15/20 08:00	06/22/20 15:15	10
Beryllium	0.35		0.30	0.0091	mg/Kg	☼	06/15/20 08:00	06/22/20 13:50	1
Cadmium	0.17	J	1.5	0.067	mg/Kg	☼	06/15/20 08:00	06/22/20 16:42	5
Cobalt	18		15	0.16	mg/Kg	☼	06/15/20 08:00	06/22/20 16:42	5
Iron	53000		30	25	mg/Kg	☼	06/15/20 08:00	06/22/20 16:42	5
Manganese	690		0.91	0.13	mg/Kg	☼	06/15/20 08:00	06/22/20 13:50	1
Selenium	1.1	J	3.0	1.0	mg/Kg	☼	06/15/20 08:00	06/22/20 16:42	5

Method: 6010B SEP - SEP Metals (ICP) - Sum of Steps 1-7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	48000		10	1.6	mg/Kg			06/25/20 11:53	1
Beryllium	0.77		0.25	0.0075	mg/Kg			06/25/20 11:53	1
Cadmium	0.21	J	0.25	0.011	mg/Kg			06/25/20 11:53	1
Cobalt	29		2.5	0.023	mg/Kg			06/25/20 11:53	1
Iron	68000		5.0	4.1	mg/Kg			06/25/20 11:53	1
Manganese	900		0.75	0.052	mg/Kg			06/25/20 11:53	1
Selenium	2.7		0.50	0.17	mg/Kg			06/25/20 11:53	1

Method: 6010B - SEP Metals (ICP) - Total

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	87000		120	19	mg/Kg	☼	05/29/20 08:00	06/23/20 14:41	10
Beryllium	0.67		0.30	0.0091	mg/Kg	☼	05/29/20 08:00	06/23/20 13:16	1
Cadmium	2.2		0.61	0.027	mg/Kg	☼	05/29/20 08:00	06/23/20 16:21	2
Cobalt	36		30	0.32	mg/Kg	☼	05/29/20 08:00	06/23/20 14:41	10
Iron	58000		12	10	mg/Kg	☼	05/29/20 08:00	06/23/20 16:21	2
Manganese	770		0.91	0.13	mg/Kg	☼	05/29/20 08:00	06/23/20 13:16	1
Selenium	ND		1.2	0.41	mg/Kg	☼	05/29/20 08:00	06/23/20 16:21	2

Client Sample ID: BRGWA-6S(2) 42 FT BGS

Date Collected: 05/14/20 12:05
Date Received: 05/20/20 09:45

Lab Sample ID: 140-19131-5

Matrix: Solid
Percent Solids: 69.7

Method: 6010B SEP - SEP Metals (ICP) - Step 1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		57	9.2	mg/Kg	☼	06/02/20 08:00	06/16/20 12:57	4
Beryllium	ND		1.4	0.44	mg/Kg	☼	06/02/20 08:00	06/16/20 12:57	4
Cadmium	ND		1.4	0.092	mg/Kg	☼	06/02/20 08:00	06/16/20 12:57	4
Cobalt	ND		14	0.26	mg/Kg	☼	06/02/20 08:00	06/16/20 12:57	4
Iron	ND		29	17	mg/Kg	☼	06/02/20 08:00	06/16/20 12:57	4
Manganese	**0.25**	**J**	4.3	0.18	mg/Kg	☼	06/02/20 08:00	06/16/20 12:57	4
Selenium	ND		2.9	0.98	mg/Kg	☼	06/02/20 08:00	06/16/20 12:57	4

Method: 6010B SEP - SEP Metals (ICP) - Step 2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**9.7**	**J ***	43	6.9	mg/Kg	☼	06/03/20 08:00	06/16/20 14:52	3
Beryllium	ND	*	1.1	0.069	mg/Kg	☼	06/03/20 08:00	06/16/20 14:52	3
Cadmium	ND		1.1	0.047	mg/Kg	☼	06/03/20 08:00	06/16/20 14:52	3
Cobalt	ND		11	0.27	mg/Kg	☼	06/03/20 08:00	06/16/20 14:52	3
Iron	ND	*	22	12	mg/Kg	☼	06/03/20 08:00	06/16/20 14:52	3
Manganese	ND		3.2	1.2	mg/Kg	☼	06/03/20 08:00	06/16/20 14:52	3
Selenium	ND		2.2	0.73	mg/Kg	☼	06/03/20 08:00	06/16/20 14:52	3

Method: 6010B SEP - SEP Metals (ICP) - Step 3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**220**		14	3.0	mg/Kg	☼	06/08/20 08:00	06/18/20 12:46	1
Beryllium	**0.049**	**J**	0.36	0.022	mg/Kg	☼	06/08/20 08:00	06/18/20 12:46	1
Cadmium	**0.11**	**J B ***	0.36	0.016	mg/Kg	☼	06/08/20 08:00	06/18/20 12:46	1
Cobalt	**19**		3.6	0.065	mg/Kg	☼	06/08/20 08:00	06/18/20 12:46	1
Iron	**490**		7.2	4.2	mg/Kg	☼	06/08/20 08:00	06/18/20 12:46	1
Manganese	**430**	**B**	1.1	0.039	mg/Kg	☼	06/08/20 08:00	06/18/20 12:46	1
Selenium	**0.27**	**J**	0.72	0.24	mg/Kg	☼	06/08/20 08:00	06/18/20 12:46	1

Method: 6010B SEP - SEP Metals (ICP) - Step 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**3100**		14	2.3	mg/Kg	☼	06/10/20 08:00	06/18/20 14:40	1
Beryllium	**0.45**		0.36	0.023	mg/Kg	☼	06/10/20 08:00	06/18/20 14:40	1
Cadmium	ND		0.36	0.016	mg/Kg	☼	06/10/20 08:00	06/18/20 14:40	1
Cobalt	**9.9**		3.6	0.076	mg/Kg	☼	06/10/20 08:00	06/18/20 14:40	1
Iron	**10000**		7.2	4.2	mg/Kg	☼	06/10/20 08:00	06/18/20 14:40	1
Manganese	**270**		1.1	0.19	mg/Kg	☼	06/10/20 08:00	06/18/20 14:40	1
Selenium	**1.4**	**B ***	0.72	0.67	mg/Kg	☼	06/10/20 08:00	06/18/20 14:40	1

Method: 6010B SEP - SEP Metals (ICP) - Step 5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**140**	**J * *1**	220	34	mg/Kg	☼	06/12/20 08:00	06/19/20 12:19	5
Beryllium	ND	*	5.4	0.45	mg/Kg	☼	06/12/20 08:00	06/19/20 12:19	5
Cadmium	ND		5.4	0.23	mg/Kg	☼	06/12/20 08:00	06/19/20 12:19	5
Cobalt	ND	*	54	0.86	mg/Kg	☼	06/12/20 08:00	06/19/20 12:19	5
Iron	ND	* *1	110	63	mg/Kg	☼	06/12/20 08:00	06/19/20 12:19	5
Manganese	**3.5**	**J ***	16	2.7	mg/Kg	☼	06/12/20 08:00	06/19/20 12:19	5
Selenium	**4.3**	**J**	11	3.7	mg/Kg	☼	06/12/20 08:00	06/19/20 12:19	5

Method: 6010B SEP - SEP Metals (ICP) - Step 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**16000**		14	2.3	mg/Kg	☼	06/12/20 08:00	06/19/20 16:12	1

Client Sample ID: BRGWA-6S(2) 42 FT BGS

Date Collected: 05/14/20 12:05
Date Received: 05/20/20 09:45

Lab Sample ID: 140-19131-5

Matrix: Solid
Percent Solids: 69.7

Method: 6010B SEP - SEP Metals (ICP) - Step 6 (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.15	J	0.36	0.017	mg/Kg	☼	06/12/20 08:00	06/19/20 16:12	1
Cadmium	ND	L	0.36	0.016	mg/Kg	☼	06/12/20 08:00	06/19/20 16:12	1
Cobalt	5.2		3.6	0.066	mg/Kg	☼	06/12/20 08:00	06/19/20 16:12	1
Iron	20000		7.2	4.2	mg/Kg	☼	06/12/20 08:00	06/19/20 16:12	1
Manganese	54		1.1	0.36	mg/Kg	☼	06/12/20 08:00	06/19/20 16:12	1
Selenium	0.69	J	0.72	0.24	mg/Kg	☼	06/12/20 08:00	06/19/20 16:12	1

Method: 6010B SEP - SEP Metals (ICP) - Step 7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	37000		140	23	mg/Kg	☼	06/15/20 08:00	06/22/20 15:20	10
Beryllium	0.19	J	0.36	0.011	mg/Kg	☼	06/15/20 08:00	06/22/20 13:56	1
Cadmium	0.49		0.36	0.016	mg/Kg	☼	06/15/20 08:00	06/22/20 13:56	1
Cobalt	8.7	J	18	0.19	mg/Kg	☼	06/15/20 08:00	06/22/20 16:47	5
Iron	34000		7.2	5.9	mg/Kg	☼	06/15/20 08:00	06/22/20 13:56	1
Manganese	260		1.1	0.16	mg/Kg	☼	06/15/20 08:00	06/22/20 13:56	1
Selenium	0.90		0.72	0.24	mg/Kg	☼	06/15/20 08:00	06/22/20 13:56	1

Method: 6010B SEP - SEP Metals (ICP) - Sum of Steps 1-7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	57000		10	1.6	mg/Kg			06/25/20 11:53	1
Beryllium	0.84		0.25	0.0075	mg/Kg			06/25/20 11:53	1
Cadmium	0.60		0.25	0.011	mg/Kg			06/25/20 11:53	1
Cobalt	43		2.5	0.023	mg/Kg			06/25/20 11:53	1
Iron	65000		5.0	4.1	mg/Kg			06/25/20 11:53	1
Manganese	1000		0.75	0.052	mg/Kg			06/25/20 11:53	1
Selenium	7.5		0.50	0.17	mg/Kg			06/25/20 11:53	1

Method: 6010B - SEP Metals (ICP) - Total

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	110000		140	23	mg/Kg	☼	05/29/20 08:00	06/23/20 14:46	10
Beryllium	0.66	J	0.72	0.022	mg/Kg	☼	05/29/20 08:00	06/23/20 16:26	2
Cadmium	1.7		0.72	0.032	mg/Kg	☼	05/29/20 08:00	06/23/20 16:26	2
Cobalt	58		36	0.37	mg/Kg	☼	05/29/20 08:00	06/23/20 14:46	10
Iron	61000		14	12	mg/Kg	☼	05/29/20 08:00	06/23/20 16:26	2
Manganese	1100		2.2	0.32	mg/Kg	☼	05/29/20 08:00	06/23/20 16:26	2
Selenium	0.94	J	1.4	0.49	mg/Kg	☼	05/29/20 08:00	06/23/20 16:26	2

Client Sample ID: BRGWA-6S(2) 48 FT BGS

Date Collected: 05/14/20 12:15
Date Received: 05/20/20 09:45

Lab Sample ID: 140-19131-6

Matrix: Solid
Percent Solids: 69.9

Method: 6010B SEP - SEP Metals (ICP) - Step 1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		57	9.1	mg/Kg	☼	06/02/20 08:00	06/16/20 13:02	4
Beryllium	ND		1.4	0.44	mg/Kg	☼	06/02/20 08:00	06/16/20 13:02	4
Cadmium	ND		1.4	0.091	mg/Kg	☼	06/02/20 08:00	06/16/20 13:02	4
Cobalt	ND		14	0.26	mg/Kg	☼	06/02/20 08:00	06/16/20 13:02	4
Iron	ND		29	17	mg/Kg	☼	06/02/20 08:00	06/16/20 13:02	4
Manganese	**0.67**	**J**	4.3	0.18	mg/Kg	☼	06/02/20 08:00	06/16/20 13:02	4
Selenium	ND		2.9	0.97	mg/Kg	☼	06/02/20 08:00	06/16/20 13:02	4

Method: 6010B SEP - SEP Metals (ICP) - Step 2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**8.2**	**J ***	43	6.9	mg/Kg	☼	06/03/20 08:00	06/16/20 14:57	3
Beryllium	ND	*	1.1	0.069	mg/Kg	☼	06/03/20 08:00	06/16/20 14:57	3
Cadmium	ND		1.1	0.047	mg/Kg	☼	06/03/20 08:00	06/16/20 14:57	3
Cobalt	ND		11	0.27	mg/Kg	☼	06/03/20 08:00	06/16/20 14:57	3
Iron	ND	*	21	12	mg/Kg	☼	06/03/20 08:00	06/16/20 14:57	3
Manganese	ND		3.2	1.2	mg/Kg	☼	06/03/20 08:00	06/16/20 14:57	3
Selenium	ND		2.1	0.73	mg/Kg	☼	06/03/20 08:00	06/16/20 14:57	3

Method: 6010B SEP - SEP Metals (ICP) - Step 3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**230**		14	3.0	mg/Kg	☼	06/08/20 08:00	06/18/20 12:51	1
Beryllium	**0.066**	**J**	0.36	0.021	mg/Kg	☼	06/08/20 08:00	06/18/20 12:51	1
Cadmium	**0.094**	**J B ***	0.36	0.016	mg/Kg	☼	06/08/20 08:00	06/18/20 12:51	1
Cobalt	**21**		3.6	0.064	mg/Kg	☼	06/08/20 08:00	06/18/20 12:51	1
Iron	**480**		7.1	4.1	mg/Kg	☼	06/08/20 08:00	06/18/20 12:51	1
Manganese	**460**	**B**	1.1	0.039	mg/Kg	☼	06/08/20 08:00	06/18/20 12:51	1
Selenium	**0.29**	**J**	0.71	0.24	mg/Kg	☼	06/08/20 08:00	06/18/20 12:51	1

Method: 6010B SEP - SEP Metals (ICP) - Step 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**2600**		14	2.3	mg/Kg	☼	06/10/20 08:00	06/18/20 14:45	1
Beryllium	**0.20**	**J**	0.36	0.023	mg/Kg	☼	06/10/20 08:00	06/18/20 14:45	1
Cadmium	**0.022**	**J**	0.36	0.016	mg/Kg	☼	06/10/20 08:00	06/18/20 14:45	1
Cobalt	**9.9**		3.6	0.076	mg/Kg	☼	06/10/20 08:00	06/18/20 14:45	1
Iron	**5500**		7.1	4.1	mg/Kg	☼	06/10/20 08:00	06/18/20 14:45	1
Manganese	**210**		1.1	0.19	mg/Kg	☼	06/10/20 08:00	06/18/20 14:45	1
Selenium	**1.6**	**B ***	0.71	0.67	mg/Kg	☼	06/10/20 08:00	06/18/20 14:45	1

Method: 6010B SEP - SEP Metals (ICP) - Step 5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**96**	**J * *1**	210	34	mg/Kg	☼	06/12/20 08:00	06/19/20 12:25	5
Beryllium	ND	*	5.4	0.45	mg/Kg	☼	06/12/20 08:00	06/19/20 12:25	5
Cadmium	ND		5.4	0.23	mg/Kg	☼	06/12/20 08:00	06/19/20 12:25	5
Cobalt	ND	*	54	0.86	mg/Kg	☼	06/12/20 08:00	06/19/20 12:25	5
Iron	ND	* *1	110	63	mg/Kg	☼	06/12/20 08:00	06/19/20 12:25	5
Manganese	**3.8**	**J ***	16	2.6	mg/Kg	☼	06/12/20 08:00	06/19/20 12:25	5
Selenium	ND		11	3.7	mg/Kg	☼	06/12/20 08:00	06/19/20 12:25	5

Method: 6010B SEP - SEP Metals (ICP) - Step 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**14000**		14	2.3	mg/Kg	☼	06/12/20 08:00	06/19/20 16:17	1

Client Sample ID: BRGWA-6S(2) 48 FT BGS

Date Collected: 05/14/20 12:15
Date Received: 05/20/20 09:45

Lab Sample ID: 140-19131-6

Matrix: Solid
Percent Solids: 69.9

Method: 6010B SEP - SEP Metals (ICP) - Step 6 (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	**0.11**	**J**	0.36	0.017	mg/Kg	☼	06/12/20 08:00	06/19/20 16:17	1
Cadmium	ND		0.36	0.016	mg/Kg	☼	06/12/20 08:00	06/19/20 16:17	1
Cobalt	**5.6**		3.6	0.066	mg/Kg	☼	06/12/20 08:00	06/19/20 16:17	1
Iron	**20000**		7.1	4.1	mg/Kg	☼	06/12/20 08:00	06/19/20 16:17	1
Manganese	**40**		1.1	0.36	mg/Kg	☼	06/12/20 08:00	06/19/20 16:17	1
Selenium	**0.59**	**J**	0.71	0.24	mg/Kg	☼	06/12/20 08:00	06/19/20 16:17	1

Method: 6010B SEP - SEP Metals (ICP) - Step 7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**29000**		140	23	mg/Kg	☼	06/15/20 08:00	06/22/20 15:25	10
Beryllium	ND		0.36	0.011	mg/Kg	☼	06/15/20 08:00	06/22/20 14:01	1
Cadmium	**0.28**	**J**	1.8	0.079	mg/Kg	☼	06/15/20 08:00	06/22/20 16:52	5
Cobalt	**16**	**J**	18	0.19	mg/Kg	☼	06/15/20 08:00	06/22/20 16:52	5
Iron	**54000**		36	29	mg/Kg	☼	06/15/20 08:00	06/22/20 16:52	5
Manganese	**500**		1.1	0.16	mg/Kg	☼	06/15/20 08:00	06/22/20 14:01	1
Selenium	ND		3.6	1.2	mg/Kg	☼	06/15/20 08:00	06/22/20 16:52	5

Method: 6010B SEP - SEP Metals (ICP) - Sum of Steps 1-7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**46000**		10	1.6	mg/Kg			06/25/20 11:53	1
Beryllium	**0.38**		0.25	0.0075	mg/Kg			06/25/20 11:53	1
Cadmium	**0.39**		0.25	0.011	mg/Kg			06/25/20 11:53	1
Cobalt	**53**		2.5	0.023	mg/Kg			06/25/20 11:53	1
Iron	**80000**		5.0	4.1	mg/Kg			06/25/20 11:53	1
Manganese	**1200**		0.75	0.052	mg/Kg			06/25/20 11:53	1
Selenium	**2.4**		0.50	0.17	mg/Kg			06/25/20 11:53	1

Method: 6010B - SEP Metals (ICP) - Total

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**98000**		140	23	mg/Kg	☼	05/29/20 08:00	06/23/20 14:51	10
Beryllium	**0.31**	**J**	0.36	0.011	mg/Kg	☼	05/29/20 08:00	06/23/20 13:27	1
Cadmium	**0.66**	**J**	3.6	0.16	mg/Kg	☼	05/29/20 08:00	06/23/20 14:51	10
Cobalt	**64**		36	0.37	mg/Kg	☼	05/29/20 08:00	06/23/20 14:51	10
Iron	**91000**		71	59	mg/Kg	☼	05/29/20 08:00	06/23/20 14:51	10
Manganese	**1000**		1.1	0.16	mg/Kg	☼	05/29/20 08:00	06/23/20 13:27	1
Selenium	**2.5**	**J**	7.1	2.4	mg/Kg	☼	05/29/20 08:00	06/23/20 14:51	10

Client Sample ID: PZ-52D 18 FT BGS

Date Collected: 05/14/20 14:40
Date Received: 05/20/20 09:45

Lab Sample ID: 140-19131-7

Matrix: Solid
Percent Solids: 67.3

Method: 6010B SEP - SEP Metals (ICP) - Step 1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		59	9.5	mg/Kg	☼	06/02/20 08:00	06/16/20 13:07	4
Beryllium	ND		1.5	0.46	mg/Kg	☼	06/02/20 08:00	06/16/20 13:07	4
Cadmium	ND		1.5	0.095	mg/Kg	☼	06/02/20 08:00	06/16/20 13:07	4
Cobalt	**0.47**	**J**	15	0.27	mg/Kg	☼	06/02/20 08:00	06/16/20 13:07	4
Iron	ND		30	17	mg/Kg	☼	06/02/20 08:00	06/16/20 13:07	4
Manganese	**11**		4.5	0.18	mg/Kg	☼	06/02/20 08:00	06/16/20 13:07	4
Selenium	ND		3.0	1.0	mg/Kg	☼	06/02/20 08:00	06/16/20 13:07	4

Method: 6010B SEP - SEP Metals (ICP) - Step 2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**14**	**J ***	45	7.1	mg/Kg	☼	06/03/20 08:00	06/16/20 15:02	3
Beryllium	ND	*	1.1	0.071	mg/Kg	☼	06/03/20 08:00	06/16/20 15:02	3
Cadmium	ND		1.1	0.049	mg/Kg	☼	06/03/20 08:00	06/16/20 15:02	3
Cobalt	ND		11	0.28	mg/Kg	☼	06/03/20 08:00	06/16/20 15:02	3
Iron	ND	*	22	13	mg/Kg	☼	06/03/20 08:00	06/16/20 15:02	3
Manganese	**2.7**	**J**	3.3	1.2	mg/Kg	☼	06/03/20 08:00	06/16/20 15:02	3
Selenium	ND		2.2	0.76	mg/Kg	☼	06/03/20 08:00	06/16/20 15:02	3

Method: 6010B SEP - SEP Metals (ICP) - Step 3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**370**		15	3.1	mg/Kg	☼	06/08/20 08:00	06/18/20 12:57	1
Beryllium	**0.35**	**J**	0.37	0.022	mg/Kg	☼	06/08/20 08:00	06/18/20 12:57	1
Cadmium	**0.029**	**J B ***	0.37	0.016	mg/Kg	☼	06/08/20 08:00	06/18/20 12:57	1
Cobalt	**17**		3.7	0.067	mg/Kg	☼	06/08/20 08:00	06/18/20 12:57	1
Iron	**1100**		7.4	4.3	mg/Kg	☼	06/08/20 08:00	06/18/20 12:57	1
Manganese	**680**	**B**	1.1	0.040	mg/Kg	☼	06/08/20 08:00	06/18/20 12:57	1
Selenium	**0.39**	**J**	0.74	0.25	mg/Kg	☼	06/08/20 08:00	06/18/20 12:57	1

Method: 6010B SEP - SEP Metals (ICP) - Step 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**2300**		15	2.4	mg/Kg	☼	06/10/20 08:00	06/18/20 14:50	1
Beryllium	**1.6**		0.37	0.024	mg/Kg	☼	06/10/20 08:00	06/18/20 14:50	1
Cadmium	ND		0.37	0.016	mg/Kg	☼	06/10/20 08:00	06/18/20 14:50	1
Cobalt	**4.7**		3.7	0.079	mg/Kg	☼	06/10/20 08:00	06/18/20 14:50	1
Iron	**17000**		7.4	4.3	mg/Kg	☼	06/10/20 08:00	06/18/20 14:50	1
Manganese	**400**		1.1	0.19	mg/Kg	☼	06/10/20 08:00	06/18/20 14:50	1
Selenium	**1.9**	**B ***	0.74	0.70	mg/Kg	☼	06/10/20 08:00	06/18/20 14:50	1

Method: 6010B SEP - SEP Metals (ICP) - Step 5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**640**	*** *1**	220	35	mg/Kg	☼	06/12/20 08:00	06/19/20 12:30	5
Beryllium	ND	*	5.6	0.47	mg/Kg	☼	06/12/20 08:00	06/19/20 12:30	5
Cadmium	ND		5.6	0.24	mg/Kg	☼	06/12/20 08:00	06/19/20 12:30	5
Cobalt	ND	*	56	0.89	mg/Kg	☼	06/12/20 08:00	06/19/20 12:30	5
Iron	ND	* *1	110	65	mg/Kg	☼	06/12/20 08:00	06/19/20 12:30	5
Manganese	**9.8**	**J ***	17	2.7	mg/Kg	☼	06/12/20 08:00	06/19/20 12:30	5
Selenium	**4.4**	**J**	11	3.9	mg/Kg	☼	06/12/20 08:00	06/19/20 12:30	5

Method: 6010B SEP - SEP Metals (ICP) - Step 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**13000**		15	2.4	mg/Kg	☼	06/12/20 08:00	06/19/20 16:22	1

Client Sample ID: PZ-52D 18 FT BGS

Date Collected: 05/14/20 14:40
Date Received: 05/20/20 09:45

Lab Sample ID: 140-19131-7

Matrix: Solid
Percent Solids: 67.3

Method: 6010B SEP - SEP Metals (ICP) - Step 6 (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	1.0		0.37	0.018	mg/Kg	☼	06/12/20 08:00	06/19/20 16:22	1
Cadmium	ND	L	0.37	0.016	mg/Kg	☼	06/12/20 08:00	06/19/20 16:22	1
Cobalt	4.4	J	7.4	0.14	mg/Kg	☼	06/12/20 08:00	06/19/20 17:10	2
Iron	27000		7.4	4.3	mg/Kg	☼	06/12/20 08:00	06/19/20 16:22	1
Manganese	190		1.1	0.37	mg/Kg	☼	06/12/20 08:00	06/19/20 16:22	1
Selenium	0.66	J	0.74	0.25	mg/Kg	☼	06/12/20 08:00	06/19/20 16:22	1

Method: 6010B SEP - SEP Metals (ICP) - Step 7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	37000		150	24	mg/Kg	☼	06/15/20 08:00	06/22/20 15:30	10
Beryllium	0.96		0.37	0.011	mg/Kg	☼	06/15/20 08:00	06/22/20 14:07	1
Cadmium	0.91		0.37	0.016	mg/Kg	☼	06/15/20 08:00	06/22/20 14:07	1
Cobalt	7.5	J	37	0.39	mg/Kg	☼	06/15/20 08:00	06/22/20 15:30	10
Iron	36000		7.4	6.1	mg/Kg	☼	06/15/20 08:00	06/22/20 14:07	1
Manganese	280		1.1	0.16	mg/Kg	☼	06/15/20 08:00	06/22/20 14:07	1
Selenium	1.0		0.74	0.25	mg/Kg	☼	06/15/20 08:00	06/22/20 14:07	1

Method: 6010B SEP - SEP Metals (ICP) - Sum of Steps 1-7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	53000		10	1.6	mg/Kg			06/25/20 11:53	1
Beryllium	4.0		0.25	0.0075	mg/Kg			06/25/20 11:53	1
Cadmium	0.94		0.25	0.011	mg/Kg			06/25/20 11:53	1
Cobalt	34		2.5	0.023	mg/Kg			06/25/20 11:53	1
Iron	80000		5.0	4.1	mg/Kg			06/25/20 11:53	1
Manganese	1600		0.75	0.052	mg/Kg			06/25/20 11:53	1
Selenium	8.3		0.50	0.17	mg/Kg			06/25/20 11:53	1

Method: 6010B - SEP Metals (ICP) - Total

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	120000		150	24	mg/Kg	☼	05/29/20 08:00	06/23/20 14:56	10
Beryllium	3.6		0.37	0.011	mg/Kg	☼	05/29/20 08:00	06/23/20 13:33	1
Cadmium	1.9		0.74	0.033	mg/Kg	☼	05/29/20 08:00	06/23/20 16:37	2
Cobalt	46		37	0.39	mg/Kg	☼	05/29/20 08:00	06/23/20 14:56	10
Iron	71000		15	12	mg/Kg	☼	05/29/20 08:00	06/23/20 16:37	2
Manganese	1700		2.2	0.33	mg/Kg	☼	05/29/20 08:00	06/23/20 16:37	2
Selenium	1.4	J	1.5	0.51	mg/Kg	☼	05/29/20 08:00	06/23/20 16:37	2

Client Sample ID: PZ-52D 24-25 FT BGS

Date Collected: 05/14/20 14:50
Date Received: 05/20/20 09:45

Lab Sample ID: 140-19131-8

Matrix: Solid
Percent Solids: 76.8

Method: 6010B SEP - SEP Metals (ICP) - Step 1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		52	8.3	mg/Kg	☼	06/02/20 08:00	06/16/20 13:12	4
Beryllium	ND		1.3	0.40	mg/Kg	☼	06/02/20 08:00	06/16/20 13:12	4
Cadmium	ND		1.3	0.083	mg/Kg	☼	06/02/20 08:00	06/16/20 13:12	4
Cobalt	ND		13	0.23	mg/Kg	☼	06/02/20 08:00	06/16/20 13:12	4
Iron	ND		26	15	mg/Kg	☼	06/02/20 08:00	06/16/20 13:12	4
Manganese	**7.1**		3.9	0.16	mg/Kg	☼	06/02/20 08:00	06/16/20 13:12	4
Selenium	ND		2.6	0.89	mg/Kg	☼	06/02/20 08:00	06/16/20 13:12	4

Method: 6010B SEP - SEP Metals (ICP) - Step 2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**17**	**J ***	39	6.3	mg/Kg	☼	06/03/20 08:00	06/16/20 15:08	3
Beryllium	ND	*	0.98	0.063	mg/Kg	☼	06/03/20 08:00	06/16/20 15:08	3
Cadmium	ND		0.98	0.043	mg/Kg	☼	06/03/20 08:00	06/16/20 15:08	3
Cobalt	ND		9.8	0.25	mg/Kg	☼	06/03/20 08:00	06/16/20 15:08	3
Iron	ND	*	20	11	mg/Kg	☼	06/03/20 08:00	06/16/20 15:08	3
Manganese	**1.7**	**J**	2.9	1.1	mg/Kg	☼	06/03/20 08:00	06/16/20 15:08	3
Selenium	ND		2.0	0.66	mg/Kg	☼	06/03/20 08:00	06/16/20 15:08	3

Method: 6010B SEP - SEP Metals (ICP) - Step 3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**260**		13	2.7	mg/Kg	☼	06/08/20 08:00	06/18/20 13:02	1
Beryllium	**0.21**	**J**	0.33	0.020	mg/Kg	☼	06/08/20 08:00	06/18/20 13:02	1
Cadmium	**0.025**	**J B ***	0.33	0.014	mg/Kg	☼	06/08/20 08:00	06/18/20 13:02	1
Cobalt	**3.3**		3.3	0.059	mg/Kg	☼	06/08/20 08:00	06/18/20 13:02	1
Iron	**460**		6.5	3.8	mg/Kg	☼	06/08/20 08:00	06/18/20 13:02	1
Manganese	**170**	**B**	0.98	0.035	mg/Kg	☼	06/08/20 08:00	06/18/20 13:02	1
Selenium	**0.30**	**J**	0.65	0.22	mg/Kg	☼	06/08/20 08:00	06/18/20 13:02	1

Method: 6010B SEP - SEP Metals (ICP) - Step 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**2200**		13	2.1	mg/Kg	☼	06/10/20 08:00	06/18/20 14:55	1
Beryllium	**1.1**		0.33	0.021	mg/Kg	☼	06/10/20 08:00	06/18/20 14:55	1
Cadmium	ND		0.33	0.014	mg/Kg	☼	06/10/20 08:00	06/18/20 14:55	1
Cobalt	**2.6**	**J**	3.3	0.069	mg/Kg	☼	06/10/20 08:00	06/18/20 14:55	1
Iron	**7100**		6.5	3.8	mg/Kg	☼	06/10/20 08:00	06/18/20 14:55	1
Manganese	**120**		0.98	0.17	mg/Kg	☼	06/10/20 08:00	06/18/20 14:55	1
Selenium	**1.3**	**B ***	0.65	0.61	mg/Kg	☼	06/10/20 08:00	06/18/20 14:55	1

Method: 6010B SEP - SEP Metals (ICP) - Step 5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**530**	*** *1**	200	31	mg/Kg	☼	06/12/20 08:00	06/19/20 12:35	5
Beryllium	ND	*	4.9	0.41	mg/Kg	☼	06/12/20 08:00	06/19/20 12:35	5
Cadmium	ND		4.9	0.21	mg/Kg	☼	06/12/20 08:00	06/19/20 12:35	5
Cobalt	ND	*	49	0.78	mg/Kg	☼	06/12/20 08:00	06/19/20 12:35	5
Iron	ND	* *1	98	57	mg/Kg	☼	06/12/20 08:00	06/19/20 12:35	5
Manganese	ND	*	15	2.4	mg/Kg	☼	06/12/20 08:00	06/19/20 12:35	5
Selenium	ND		9.8	3.4	mg/Kg	☼	06/12/20 08:00	06/19/20 12:35	5

Method: 6010B SEP - SEP Metals (ICP) - Step 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**14000**		13	2.1	mg/Kg	☼	06/12/20 08:00	06/19/20 16:27	1

Client Sample ID: PZ-52D 24-25 FT BGS

Date Collected: 05/14/20 14:50
Date Received: 05/20/20 09:45

Lab Sample ID: 140-19131-8

Matrix: Solid
Percent Solids: 76.8

Method: 6010B SEP - SEP Metals (ICP) - Step 6 (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.53		0.33	0.016	mg/Kg	☼	06/12/20 08:00	06/19/20 16:27	1
Cadmium	ND		0.33	0.014	mg/Kg	☼	06/12/20 08:00	06/19/20 16:27	1
Cobalt	3.0	J	3.3	0.060	mg/Kg	☼	06/12/20 08:00	06/19/20 16:27	1
Iron	9400		6.5	3.8	mg/Kg	☼	06/12/20 08:00	06/19/20 16:27	1
Manganese	95		0.98	0.33	mg/Kg	☼	06/12/20 08:00	06/19/20 16:27	1
Selenium	ND		0.65	0.22	mg/Kg	☼	06/12/20 08:00	06/19/20 16:27	1

Method: 6010B SEP - SEP Metals (ICP) - Step 7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	47000		130	21	mg/Kg	☼	06/15/20 08:00	06/22/20 15:50	10
Beryllium	1.4		0.33	0.0098	mg/Kg	☼	06/15/20 08:00	06/22/20 14:12	1
Cadmium	0.14	J	0.33	0.014	mg/Kg	☼	06/15/20 08:00	06/22/20 14:12	1
Cobalt	3.5		3.3	0.034	mg/Kg	☼	06/15/20 08:00	06/22/20 14:12	1
Iron	14000		6.5	5.3	mg/Kg	☼	06/15/20 08:00	06/22/20 14:12	1
Manganese	310		0.98	0.14	mg/Kg	☼	06/15/20 08:00	06/22/20 14:12	1
Selenium	ND		0.65	0.22	mg/Kg	☼	06/15/20 08:00	06/22/20 14:12	1

Method: 6010B SEP - SEP Metals (ICP) - Sum of Steps 1-7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	64000		10	1.6	mg/Kg			06/25/20 11:53	1
Beryllium	3.2		0.25	0.0075	mg/Kg			06/25/20 11:53	1
Cadmium	0.17	J	0.25	0.011	mg/Kg			06/25/20 11:53	1
Cobalt	12		2.5	0.023	mg/Kg			06/25/20 11:53	1
Iron	31000		5.0	4.1	mg/Kg			06/25/20 11:53	1
Manganese	710		0.75	0.052	mg/Kg			06/25/20 11:53	1
Selenium	1.6		0.50	0.17	mg/Kg			06/25/20 11:53	1

Method: 6010B - SEP Metals (ICP) - Total

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	86000		130	21	mg/Kg	☼	05/29/20 08:00	06/23/20 15:17	10
Beryllium	2.7		0.33	0.0098	mg/Kg	☼	05/29/20 08:00	06/23/20 13:38	1
Cadmium	0.55		0.33	0.014	mg/Kg	☼	05/29/20 08:00	06/23/20 13:38	1
Cobalt	12		6.5	0.068	mg/Kg	☼	05/29/20 08:00	06/23/20 16:58	2
Iron	24000		6.5	5.3	mg/Kg	☼	05/29/20 08:00	06/23/20 13:38	1
Manganese	580		0.98	0.14	mg/Kg	☼	05/29/20 08:00	06/23/20 13:38	1
Selenium	ND		0.65	0.22	mg/Kg	☼	05/29/20 08:00	06/23/20 13:38	1

Client Sample ID: BRGWC-50(2) 59 FT BGS

Date Collected: 05/15/20 09:00
Date Received: 05/20/20 09:45

Lab Sample ID: 140-19131-9

Matrix: Solid
Percent Solids: 87.3

Method: 6010B SEP - SEP Metals (ICP) - Step 1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		46	7.3	mg/Kg	☼	06/02/20 08:00	06/16/20 13:18	4
Beryllium	ND		1.1	0.35	mg/Kg	☼	06/02/20 08:00	06/16/20 13:18	4
Cadmium	**0.11**	**J**	1.1	0.073	mg/Kg	☼	06/02/20 08:00	06/16/20 13:18	4
Cobalt	**1.6**	**J**	11	0.21	mg/Kg	☼	06/02/20 08:00	06/16/20 13:18	4
Iron	ND		23	13	mg/Kg	☼	06/02/20 08:00	06/16/20 13:18	4
Manganese	**160**		3.4	0.14	mg/Kg	☼	06/02/20 08:00	06/16/20 13:18	4
Selenium	ND		2.3	0.78	mg/Kg	☼	06/02/20 08:00	06/16/20 13:18	4

Method: 6010B SEP - SEP Metals (ICP) - Step 2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**29**	**J ***	34	5.5	mg/Kg	☼	06/03/20 08:00	06/16/20 15:13	3
Beryllium	ND	*	0.86	0.055	mg/Kg	☼	06/03/20 08:00	06/16/20 15:13	3
Cadmium	**0.084**	**J**	0.86	0.038	mg/Kg	☼	06/03/20 08:00	06/16/20 15:13	3
Cobalt	**1.1**	**J**	8.6	0.22	mg/Kg	☼	06/03/20 08:00	06/16/20 15:13	3
Iron	**27**	*****	17	10	mg/Kg	☼	06/03/20 08:00	06/16/20 15:13	3
Manganese	**36**		2.6	0.96	mg/Kg	☼	06/03/20 08:00	06/16/20 15:13	3
Selenium	ND		1.7	0.58	mg/Kg	☼	06/03/20 08:00	06/16/20 15:13	3

Method: 6010B SEP - SEP Metals (ICP) - Step 3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**260**		11	2.4	mg/Kg	☼	06/08/20 08:00	06/18/20 13:07	1
Beryllium	**0.20**	**J**	0.29	0.017	mg/Kg	☼	06/08/20 08:00	06/18/20 13:07	1
Cadmium	**0.10**	**J B ***	0.29	0.013	mg/Kg	☼	06/08/20 08:00	06/18/20 13:07	1
Cobalt	**2.6**	**J**	2.9	0.052	mg/Kg	☼	06/08/20 08:00	06/18/20 13:07	1
Iron	**1500**		5.7	3.3	mg/Kg	☼	06/08/20 08:00	06/18/20 13:07	1
Manganese	**67**	**B**	0.86	0.031	mg/Kg	☼	06/08/20 08:00	06/18/20 13:07	1
Selenium	**0.23**	**J**	0.57	0.19	mg/Kg	☼	06/08/20 08:00	06/18/20 13:07	1

Method: 6010B SEP - SEP Metals (ICP) - Step 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**1300**		11	1.8	mg/Kg	☼	06/10/20 08:00	06/18/20 15:00	1
Beryllium	**0.32**		0.29	0.018	mg/Kg	☼	06/10/20 08:00	06/18/20 15:00	1
Cadmium	**0.36**		0.29	0.013	mg/Kg	☼	06/10/20 08:00	06/18/20 15:00	1
Cobalt	**1.5**	**J**	2.9	0.061	mg/Kg	☼	06/10/20 08:00	06/18/20 15:00	1
Iron	**5300**		5.7	3.3	mg/Kg	☼	06/10/20 08:00	06/18/20 15:00	1
Manganese	**52**		0.86	0.15	mg/Kg	☼	06/10/20 08:00	06/18/20 15:00	1
Selenium	**1.1**	**B ***	0.57	0.54	mg/Kg	☼	06/10/20 08:00	06/18/20 15:00	1

Method: 6010B SEP - SEP Metals (ICP) - Step 5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**200**	*** *1**	170	27	mg/Kg	☼	06/12/20 08:00	06/19/20 12:41	5
Beryllium	ND	*	4.3	0.36	mg/Kg	☼	06/12/20 08:00	06/19/20 12:41	5
Cadmium	ND		4.3	0.18	mg/Kg	☼	06/12/20 08:00	06/19/20 12:41	5
Cobalt	ND	*	43	0.69	mg/Kg	☼	06/12/20 08:00	06/19/20 12:41	5
Iron	ND	* *1	86	50	mg/Kg	☼	06/12/20 08:00	06/19/20 12:41	5
Manganese	ND	*	13	2.1	mg/Kg	☼	06/12/20 08:00	06/19/20 12:41	5
Selenium	ND		8.6	3.0	mg/Kg	☼	06/12/20 08:00	06/19/20 12:41	5

Method: 6010B SEP - SEP Metals (ICP) - Step 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**12000**		11	1.8	mg/Kg	☼	06/12/20 08:00	06/19/20 16:32	1

Client Sample ID: BRGWC-50(2) 59 FT BGS

Date Collected: 05/15/20 09:00
Date Received: 05/20/20 09:45

Lab Sample ID: 140-19131-9

Matrix: Solid
Percent Solids: 87.3

Method: 6010B SEP - SEP Metals (ICP) - Step 6 (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.23	J	0.29	0.014	mg/Kg	☼	06/12/20 08:00	06/19/20 16:32	1
Cadmium	ND		0.29	0.013	mg/Kg	☼	06/12/20 08:00	06/19/20 16:32	1
Cobalt	4.5	J	14	0.26	mg/Kg	☼	06/12/20 08:00	06/19/20 17:15	5
Iron	16000		5.7	3.3	mg/Kg	☼	06/12/20 08:00	06/19/20 16:32	1
Manganese	370		0.86	0.29	mg/Kg	☼	06/12/20 08:00	06/19/20 16:32	1
Selenium	0.52	J	0.57	0.19	mg/Kg	☼	06/12/20 08:00	06/19/20 16:32	1

Method: 6010B SEP - SEP Metals (ICP) - Step 7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	48000		110	18	mg/Kg	☼	06/15/20 08:00	06/22/20 15:55	10
Beryllium	1.6		0.29	0.0086	mg/Kg	☼	06/15/20 08:00	06/22/20 14:18	1
Cadmium	0.047	J	0.29	0.013	mg/Kg	☼	06/15/20 08:00	06/22/20 14:18	1
Cobalt	0.31	J	2.9	0.030	mg/Kg	☼	06/15/20 08:00	06/22/20 14:18	1
Iron	2700		5.7	4.7	mg/Kg	☼	06/15/20 08:00	06/22/20 14:18	1
Manganese	63		0.86	0.13	mg/Kg	☼	06/15/20 08:00	06/22/20 14:18	1
Selenium	ND		0.57	0.19	mg/Kg	☼	06/15/20 08:00	06/22/20 14:18	1

Method: 6010B SEP - SEP Metals (ICP) - Sum of Steps 1-7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	62000		10	1.6	mg/Kg			06/25/20 11:53	1
Beryllium	2.3		0.25	0.0075	mg/Kg			06/25/20 11:53	1
Cadmium	0.70		0.25	0.011	mg/Kg			06/25/20 11:53	1
Cobalt	12		2.5	0.023	mg/Kg			06/25/20 11:53	1
Iron	25000		5.0	4.1	mg/Kg			06/25/20 11:53	1
Manganese	750		0.75	0.052	mg/Kg			06/25/20 11:53	1
Selenium	1.8		0.50	0.17	mg/Kg			06/25/20 11:53	1

Method: 6010B - SEP Metals (ICP) - Total

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	78000		110	18	mg/Kg	☼	05/29/20 08:00	06/23/20 15:22	10
Beryllium	1.9		0.29	0.0086	mg/Kg	☼	05/29/20 08:00	06/23/20 13:44	1
Cadmium	0.72		0.29	0.013	mg/Kg	☼	05/29/20 08:00	06/23/20 13:44	1
Cobalt	11	J	14	0.15	mg/Kg	☼	05/29/20 08:00	06/23/20 17:03	5
Iron	18000		5.7	4.7	mg/Kg	☼	05/29/20 08:00	06/23/20 13:44	1
Manganese	540		0.86	0.13	mg/Kg	☼	05/29/20 08:00	06/23/20 13:44	1
Selenium	ND		0.57	0.19	mg/Kg	☼	05/29/20 08:00	06/23/20 13:44	1

Client Sample ID: BRGWC-50(2) 63-63.5 FT BGS

Date Collected: 05/15/20 09:20
Date Received: 05/20/20 09:45

Lab Sample ID: 140-19131-10

Matrix: Solid
Percent Solids: 99.8

Method: 6010B SEP - SEP Metals (ICP) - Step 1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		40	6.4	mg/Kg	☼	06/02/20 08:00	06/16/20 13:23	4
Beryllium	ND		1.0	0.31	mg/Kg	☼	06/02/20 08:00	06/16/20 13:23	4
Cadmium	ND		1.0	0.064	mg/Kg	☼	06/02/20 08:00	06/16/20 13:23	4
Cobalt	ND		10	0.18	mg/Kg	☼	06/02/20 08:00	06/16/20 13:23	4
Iron	ND		20	12	mg/Kg	☼	06/02/20 08:00	06/16/20 13:23	4
Manganese	**0.70**	**J**	3.0	0.12	mg/Kg	☼	06/02/20 08:00	06/16/20 13:23	4
Selenium	ND		2.0	0.68	mg/Kg	☼	06/02/20 08:00	06/16/20 13:23	4

Method: 6010B SEP - SEP Metals (ICP) - Step 2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**14**	**J ***	30	4.8	mg/Kg	☼	06/03/20 08:00	06/16/20 15:18	3
Beryllium	ND	*	0.75	0.048	mg/Kg	☼	06/03/20 08:00	06/16/20 15:18	3
Cadmium	ND		0.75	0.033	mg/Kg	☼	06/03/20 08:00	06/16/20 15:18	3
Cobalt	ND		7.5	0.19	mg/Kg	☼	06/03/20 08:00	06/16/20 15:18	3
Iron	**58**	*****	15	8.7	mg/Kg	☼	06/03/20 08:00	06/16/20 15:18	3
Manganese	**5.0**		2.3	0.84	mg/Kg	☼	06/03/20 08:00	06/16/20 15:18	3
Selenium	ND		1.5	0.51	mg/Kg	☼	06/03/20 08:00	06/16/20 15:18	3

Method: 6010B SEP - SEP Metals (ICP) - Step 3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**110**		10	2.1	mg/Kg	☼	06/08/20 08:00	06/18/20 13:12	1
Beryllium	ND		0.25	0.015	mg/Kg	☼	06/08/20 08:00	06/18/20 13:12	1
Cadmium	**0.028**	**J B ***	0.25	0.011	mg/Kg	☼	06/08/20 08:00	06/18/20 13:12	1
Cobalt	ND		2.5	0.045	mg/Kg	☼	06/08/20 08:00	06/18/20 13:12	1
Iron	**300**		5.0	2.9	mg/Kg	☼	06/08/20 08:00	06/18/20 13:12	1
Manganese	**8.1**	**B**	0.75	0.027	mg/Kg	☼	06/08/20 08:00	06/18/20 13:12	1
Selenium	**0.18**	**J**	0.50	0.17	mg/Kg	☼	06/08/20 08:00	06/18/20 13:12	1

Method: 6010B SEP - SEP Metals (ICP) - Step 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**900**		10	1.6	mg/Kg	☼	06/10/20 08:00	06/18/20 15:05	1
Beryllium	ND		0.25	0.016	mg/Kg	☼	06/10/20 08:00	06/18/20 15:05	1
Cadmium	ND		0.25	0.011	mg/Kg	☼	06/10/20 08:00	06/18/20 15:05	1
Cobalt	**0.30**	**J**	2.5	0.053	mg/Kg	☼	06/10/20 08:00	06/18/20 15:05	1
Iron	**2100**		5.0	2.9	mg/Kg	☼	06/10/20 08:00	06/18/20 15:05	1
Manganese	**60**		0.75	0.13	mg/Kg	☼	06/10/20 08:00	06/18/20 15:05	1
Selenium	**0.70**	**B ***	0.50	0.47	mg/Kg	☼	06/10/20 08:00	06/18/20 15:05	1

Method: 6010B SEP - SEP Metals (ICP) - Step 5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**64**	**J * *1**	150	24	mg/Kg	☼	06/12/20 08:00	06/19/20 12:46	5
Beryllium	ND	*	3.8	0.32	mg/Kg	☼	06/12/20 08:00	06/19/20 12:46	5
Cadmium	ND		3.8	0.16	mg/Kg	☼	06/12/20 08:00	06/19/20 12:46	5
Cobalt	ND	*	38	0.60	mg/Kg	☼	06/12/20 08:00	06/19/20 12:46	5
Iron	ND	* *1	75	44	mg/Kg	☼	06/12/20 08:00	06/19/20 12:46	5
Manganese	**3.0**	**J ***	11	1.9	mg/Kg	☼	06/12/20 08:00	06/19/20 12:46	5
Selenium	ND		7.5	2.6	mg/Kg	☼	06/12/20 08:00	06/19/20 12:46	5

Method: 6010B SEP - SEP Metals (ICP) - Step 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**20000**		10	1.6	mg/Kg	☼	06/12/20 08:00	06/19/20 16:38	1

Client Sample ID: BRGWC-50(2) 63-63.5 FT BGS

Date Collected: 05/15/20 09:20
Date Received: 05/20/20 09:45

Lab Sample ID: 140-19131-10

Matrix: Solid
Percent Solids: 99.8

Method: 6010B SEP - SEP Metals (ICP) - Step 6 (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		0.25	0.012	mg/Kg	☼	06/12/20 08:00	06/19/20 16:38	1
Cadmium	ND		1.3	0.055	mg/Kg	☼	06/12/20 08:00	06/19/20 17:21	5
Cobalt	**8.9**	**J**	13	0.23	mg/Kg	☼	06/12/20 08:00	06/19/20 17:21	5
Iron	**39000**		25	15	mg/Kg	☼	06/12/20 08:00	06/19/20 17:21	5
Manganese	**930**		0.75	0.25	mg/Kg	☼	06/12/20 08:00	06/19/20 16:38	1
Selenium	**1.3**	**J**	2.5	0.85	mg/Kg	☼	06/12/20 08:00	06/19/20 17:21	5

Method: 6010B SEP - SEP Metals (ICP) - Step 7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**32000**		100	16	mg/Kg	☼	06/15/20 08:00	06/22/20 16:00	10
Beryllium	**0.94**		0.25	0.0075	mg/Kg	☼	06/15/20 08:00	06/22/20 14:23	1
Cadmium	**0.12**	**J**	0.25	0.011	mg/Kg	☼	06/15/20 08:00	06/22/20 14:23	1
Cobalt	**1.2**	**J**	13	0.13	mg/Kg	☼	06/15/20 08:00	06/22/20 16:57	5
Iron	**6900**		5.0	4.1	mg/Kg	☼	06/15/20 08:00	06/22/20 14:23	1
Manganese	**220**		0.75	0.11	mg/Kg	☼	06/15/20 08:00	06/22/20 14:23	1
Selenium	ND		0.50	0.17	mg/Kg	☼	06/15/20 08:00	06/22/20 14:23	1

Method: 6010B SEP - SEP Metals (ICP) - Sum of Steps 1-7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**52000**		10	1.6	mg/Kg			06/25/20 11:53	1
Beryllium	**0.94**		0.25	0.0075	mg/Kg			06/25/20 11:53	1
Cadmium	**0.15**	**J**	0.25	0.011	mg/Kg			06/25/20 11:53	1
Cobalt	**10**		2.5	0.023	mg/Kg			06/25/20 11:53	1
Iron	**49000**		5.0	4.1	mg/Kg			06/25/20 11:53	1
Manganese	**1200**		0.75	0.052	mg/Kg			06/25/20 11:53	1
Selenium	**2.2**		0.50	0.17	mg/Kg			06/25/20 11:53	1

Method: 6010B - SEP Metals (ICP) - Total

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**70000**		100	16	mg/Kg	☼	05/29/20 08:00	06/23/20 15:27	10
Beryllium	**0.73**		0.50	0.015	mg/Kg	☼	05/29/20 08:00	06/23/20 17:08	2
Cadmium	**1.4**		0.50	0.022	mg/Kg	☼	05/29/20 08:00	06/23/20 17:08	2
Cobalt	**12**	**J**	25	0.26	mg/Kg	☼	05/29/20 08:00	06/23/20 15:27	10
Iron	**43000**		10	8.2	mg/Kg	☼	05/29/20 08:00	06/23/20 17:08	2
Manganese	**1300**		1.5	0.22	mg/Kg	☼	05/29/20 08:00	06/23/20 17:08	2
Selenium	**0.50**	**J**	1.0	0.34	mg/Kg	☼	05/29/20 08:00	06/23/20 17:08	2

Client Sample ID: PZ-53D 30 FT BGS

Date Collected: 05/16/20 16:15
Date Received: 05/20/20 09:45

Lab Sample ID: 140-19131-11

Matrix: Solid
Percent Solids: 73.6

Method: 6010B SEP - SEP Metals (ICP) - Step 1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**31**	**J**	54	8.7	mg/Kg	☼	06/02/20 08:00	06/16/20 13:28	4
Beryllium	ND		1.4	0.42	mg/Kg	☼	06/02/20 08:00	06/16/20 13:28	4
Cadmium	ND		1.4	0.087	mg/Kg	☼	06/02/20 08:00	06/16/20 13:28	4
Cobalt	**0.43**	**J**	14	0.24	mg/Kg	☼	06/02/20 08:00	06/16/20 13:28	4
Iron	ND		27	16	mg/Kg	☼	06/02/20 08:00	06/16/20 13:28	4
Manganese	**5.5**		4.1	0.17	mg/Kg	☼	06/02/20 08:00	06/16/20 13:28	4
Selenium	ND		2.7	0.92	mg/Kg	☼	06/02/20 08:00	06/16/20 13:28	4

Method: 6010B SEP - SEP Metals (ICP) - Step 2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**17**	**J ***	41	6.5	mg/Kg	☼	06/03/20 08:00	06/16/20 15:24	3
Beryllium	ND	*	1.0	0.065	mg/Kg	☼	06/03/20 08:00	06/16/20 15:24	3
Cadmium	ND		1.0	0.045	mg/Kg	☼	06/03/20 08:00	06/16/20 15:24	3
Cobalt	ND		10	0.26	mg/Kg	☼	06/03/20 08:00	06/16/20 15:24	3
Iron	ND	*	20	12	mg/Kg	☼	06/03/20 08:00	06/16/20 15:24	3
Manganese	ND		3.1	1.1	mg/Kg	☼	06/03/20 08:00	06/16/20 15:24	3
Selenium	ND		2.0	0.69	mg/Kg	☼	06/03/20 08:00	06/16/20 15:24	3

Method: 6010B SEP - SEP Metals (ICP) - Step 3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**190**		14	2.9	mg/Kg	☼	06/08/20 08:00	06/18/20 13:18	1
Beryllium	**0.13**	**J**	0.34	0.020	mg/Kg	☼	06/08/20 08:00	06/18/20 13:18	1
Cadmium	**0.041**	**J B ***	0.34	0.015	mg/Kg	☼	06/08/20 08:00	06/18/20 13:18	1
Cobalt	**17**		3.4	0.061	mg/Kg	☼	06/08/20 08:00	06/18/20 13:18	1
Iron	**640**		6.8	3.9	mg/Kg	☼	06/08/20 08:00	06/18/20 13:18	1
Manganese	**480**	**B**	1.0	0.037	mg/Kg	☼	06/08/20 08:00	06/18/20 13:18	1
Selenium	**0.30**	**J**	0.68	0.23	mg/Kg	☼	06/08/20 08:00	06/18/20 13:18	1

Method: 6010B SEP - SEP Metals (ICP) - Step 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**2100**		14	2.2	mg/Kg	☼	06/10/20 08:00	06/18/20 15:10	1
Beryllium	**0.57**		0.34	0.022	mg/Kg	☼	06/10/20 08:00	06/18/20 15:10	1
Cadmium	ND		0.34	0.015	mg/Kg	☼	06/10/20 08:00	06/18/20 15:10	1
Cobalt	**3.5**		3.4	0.072	mg/Kg	☼	06/10/20 08:00	06/18/20 15:10	1
Iron	**6200**		6.8	3.9	mg/Kg	☼	06/10/20 08:00	06/18/20 15:10	1
Manganese	**200**		1.0	0.18	mg/Kg	☼	06/10/20 08:00	06/18/20 15:10	1
Selenium	**1.4**	**B ***	0.68	0.64	mg/Kg	☼	06/10/20 08:00	06/18/20 15:10	1

Method: 6010B SEP - SEP Metals (ICP) - Step 5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**360**	**** *1**	200	32	mg/Kg	☼	06/12/20 08:00	06/19/20 12:51	5
Beryllium	ND	*	5.1	0.43	mg/Kg	☼	06/12/20 08:00	06/19/20 12:51	5
Cadmium	ND		5.1	0.22	mg/Kg	☼	06/12/20 08:00	06/19/20 12:51	5
Cobalt	ND	*	51	0.82	mg/Kg	☼	06/12/20 08:00	06/19/20 12:51	5
Iron	ND	* *1	100	60	mg/Kg	☼	06/12/20 08:00	06/19/20 12:51	5
Manganese	ND	*	15	2.5	mg/Kg	☼	06/12/20 08:00	06/19/20 12:51	5
Selenium	ND		10	3.5	mg/Kg	☼	06/12/20 08:00	06/19/20 12:51	5

Method: 6010B SEP - SEP Metals (ICP) - Step 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**13000**		14	2.2	mg/Kg	☼	06/12/20 08:00	06/19/20 16:43	1

Client Sample ID: PZ-53D 30 FT BGS

Date Collected: 05/16/20 16:15
Date Received: 05/20/20 09:45

Lab Sample ID: 140-19131-11

Matrix: Solid
Percent Solids: 73.6

Method: 6010B SEP - SEP Metals (ICP) - Step 6 (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.39		0.34	0.016	mg/Kg	☼	06/12/20 08:00	06/19/20 16:43	1
Cadmium	ND		0.34	0.015	mg/Kg	☼	06/12/20 08:00	06/19/20 16:43	1
Cobalt	5.1		3.4	0.063	mg/Kg	☼	06/12/20 08:00	06/19/20 16:43	1
Iron	14000		6.8	3.9	mg/Kg	☼	06/12/20 08:00	06/19/20 16:43	1
Manganese	210		1.0	0.34	mg/Kg	☼	06/12/20 08:00	06/19/20 16:43	1
Selenium	0.39	J	0.68	0.23	mg/Kg	☼	06/12/20 08:00	06/19/20 16:43	1

Method: 6010B SEP - SEP Metals (ICP) - Step 7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	43000		140	22	mg/Kg	☼	06/15/20 08:00	06/22/20 16:06	10
Beryllium	0.51		0.34	0.010	mg/Kg	☼	06/15/20 08:00	06/22/20 14:29	1
Cadmium	0.12	J	0.34	0.015	mg/Kg	☼	06/15/20 08:00	06/22/20 14:29	1
Cobalt	0.91	J	3.4	0.035	mg/Kg	☼	06/15/20 08:00	06/22/20 14:29	1
Iron	8500		6.8	5.6	mg/Kg	☼	06/15/20 08:00	06/22/20 14:29	1
Manganese	48		1.0	0.15	mg/Kg	☼	06/15/20 08:00	06/22/20 14:29	1
Selenium	ND		0.68	0.23	mg/Kg	☼	06/15/20 08:00	06/22/20 14:29	1

Method: 6010B SEP - SEP Metals (ICP) - Sum of Steps 1-7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	58000		10	1.6	mg/Kg			06/25/20 11:53	1
Beryllium	1.6		0.25	0.0075	mg/Kg			06/25/20 11:53	1
Cadmium	0.16	J	0.25	0.011	mg/Kg			06/25/20 11:53	1
Cobalt	26		2.5	0.023	mg/Kg			06/25/20 11:53	1
Iron	29000		5.0	4.1	mg/Kg			06/25/20 11:53	1
Manganese	940		0.75	0.052	mg/Kg			06/25/20 11:53	1
Selenium	2.1		0.50	0.17	mg/Kg			06/25/20 11:53	1

Method: 6010B - SEP Metals (ICP) - Total

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100000		140	22	mg/Kg	☼	05/29/20 08:00	06/23/20 15:32	10
Beryllium	2.0		0.34	0.010	mg/Kg	☼	05/29/20 08:00	06/23/20 13:55	1
Cadmium	0.44	J	0.68	0.030	mg/Kg	☼	05/29/20 08:00	06/23/20 17:14	2
Cobalt	41		34	0.35	mg/Kg	☼	05/29/20 08:00	06/23/20 15:32	10
Iron	36000		14	11	mg/Kg	☼	05/29/20 08:00	06/23/20 17:14	2
Manganese	1200		1.0	0.15	mg/Kg	☼	05/29/20 08:00	06/23/20 13:55	1
Selenium	0.62	J	1.4	0.46	mg/Kg	☼	05/29/20 08:00	06/23/20 17:14	2

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-19131-1

Client Sample ID: PZ-53D 36 FT BGS

Date Collected: 05/16/20 16:25
Date Received: 05/20/20 09:45

Lab Sample ID: 140-19131-12

Matrix: Solid
Percent Solids: 82.0

Method: 6010B SEP - SEP Metals (ICP) - Step 1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		49	7.8	mg/Kg	☼	06/02/20 08:00	06/16/20 13:33	4
Beryllium	ND		1.2	0.38	mg/Kg	☼	06/02/20 08:00	06/16/20 13:33	4
Cadmium	ND		1.2	0.078	mg/Kg	☼	06/02/20 08:00	06/16/20 13:33	4
Cobalt	ND		12	0.22	mg/Kg	☼	06/02/20 08:00	06/16/20 13:33	4
Iron	ND		24	14	mg/Kg	☼	06/02/20 08:00	06/16/20 13:33	4
Manganese	**0.89**	**J**	3.7	0.15	mg/Kg	☼	06/02/20 08:00	06/16/20 13:33	4
Selenium	ND		2.4	0.83	mg/Kg	☼	06/02/20 08:00	06/16/20 13:33	4

Method: 6010B SEP - SEP Metals (ICP) - Step 2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**6.8**	**J ***	37	5.9	mg/Kg	☼	06/03/20 08:00	06/16/20 15:29	3
Beryllium	**0.14**	**J ***	0.91	0.059	mg/Kg	☼	06/03/20 08:00	06/16/20 15:29	3
Cadmium	ND		0.91	0.040	mg/Kg	☼	06/03/20 08:00	06/16/20 15:29	3
Cobalt	ND		9.1	0.23	mg/Kg	☼	06/03/20 08:00	06/16/20 15:29	3
Iron	ND	*	18	11	mg/Kg	☼	06/03/20 08:00	06/16/20 15:29	3
Manganese	ND		2.7	1.0	mg/Kg	☼	06/03/20 08:00	06/16/20 15:29	3
Selenium	**0.70**	**J**	1.8	0.62	mg/Kg	☼	06/03/20 08:00	06/16/20 15:29	3

Method: 6010B SEP - SEP Metals (ICP) - Step 3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**140**		12	2.6	mg/Kg	☼	06/08/20 08:00	06/18/20 13:23	1
Beryllium	**0.23**	**J**	0.30	0.018	mg/Kg	☼	06/08/20 08:00	06/18/20 13:23	1
Cadmium	**0.060**	**J B ***	0.30	0.013	mg/Kg	☼	06/08/20 08:00	06/18/20 13:23	1
Cobalt	**1.0**	**J**	3.0	0.055	mg/Kg	☼	06/08/20 08:00	06/18/20 13:23	1
Iron	**70**		6.1	3.5	mg/Kg	☼	06/08/20 08:00	06/18/20 13:23	1
Manganese	**74**	**B**	0.91	0.033	mg/Kg	☼	06/08/20 08:00	06/18/20 13:23	1
Selenium	**0.25**	**J**	0.61	0.21	mg/Kg	☼	06/08/20 08:00	06/18/20 13:23	1

Method: 6010B SEP - SEP Metals (ICP) - Step 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**2000**		12	2.0	mg/Kg	☼	06/10/20 08:00	06/18/20 15:15	1
Beryllium	**0.42**		0.30	0.020	mg/Kg	☼	06/10/20 08:00	06/18/20 15:15	1
Cadmium	**0.035**	**J**	0.30	0.013	mg/Kg	☼	06/10/20 08:00	06/18/20 15:15	1
Cobalt	**0.63**	**J**	3.0	0.065	mg/Kg	☼	06/10/20 08:00	06/18/20 15:15	1
Iron	**1800**		6.1	3.5	mg/Kg	☼	06/10/20 08:00	06/18/20 15:15	1
Manganese	**56**		0.91	0.16	mg/Kg	☼	06/10/20 08:00	06/18/20 15:15	1
Selenium	**0.91**	**B ***	0.61	0.57	mg/Kg	☼	06/10/20 08:00	06/18/20 15:15	1

Method: 6010B SEP - SEP Metals (ICP) - Step 5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**240**	**** *1**	180	29	mg/Kg	☼	06/12/20 08:00	06/19/20 12:57	5
Beryllium	ND	*	4.6	0.38	mg/Kg	☼	06/12/20 08:00	06/19/20 12:57	5
Cadmium	ND		4.6	0.20	mg/Kg	☼	06/12/20 08:00	06/19/20 12:57	5
Cobalt	ND	*	46	0.73	mg/Kg	☼	06/12/20 08:00	06/19/20 12:57	5
Iron	ND	* *1	91	54	mg/Kg	☼	06/12/20 08:00	06/19/20 12:57	5
Manganese	ND	*	14	2.3	mg/Kg	☼	06/12/20 08:00	06/19/20 12:57	5
Selenium	ND		9.1	3.2	mg/Kg	☼	06/12/20 08:00	06/19/20 12:57	5

Method: 6010B SEP - SEP Metals (ICP) - Step 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**17000**		12	2.0	mg/Kg	☼	06/12/20 08:00	06/19/20 16:49	1

Client Sample ID: PZ-53D 36 FT BGS

Date Collected: 05/16/20 16:25
Date Received: 05/20/20 09:45

Lab Sample ID: 140-19131-12

Matrix: Solid
Percent Solids: 82.0

Method: 6010B SEP - SEP Metals (ICP) - Step 6 (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	**0.70**		0.30	0.015	mg/Kg	☼	06/12/20 08:00	06/19/20 16:49	1
Cadmium	ND		0.30	0.013	mg/Kg	☼	06/12/20 08:00	06/19/20 16:49	1
Cobalt	**6.9**		6.1	0.11	mg/Kg	☼	06/12/20 08:00	06/19/20 17:26	2
Iron	**20000**		6.1	3.5	mg/Kg	☼	06/12/20 08:00	06/19/20 16:49	1
Manganese	**290**		0.91	0.30	mg/Kg	☼	06/12/20 08:00	06/19/20 16:49	1
Selenium	**0.48**	**J**	0.61	0.21	mg/Kg	☼	06/12/20 08:00	06/19/20 16:49	1

Method: 6010B SEP - SEP Metals (ICP) - Step 7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**48000**		120	20	mg/Kg	☼	06/15/20 08:00	06/22/20 16:11	10
Beryllium	**0.42**		0.30	0.0091	mg/Kg	☼	06/15/20 08:00	06/22/20 14:34	1
Cadmium	**0.23**	**J**	0.30	0.013	mg/Kg	☼	06/15/20 08:00	06/22/20 14:34	1
Cobalt	**0.27**	**J**	15	0.16	mg/Kg	☼	06/15/20 08:00	06/22/20 17:02	5
Iron	**5000**		6.1	5.0	mg/Kg	☼	06/15/20 08:00	06/22/20 14:34	1
Manganese	**55**		0.91	0.13	mg/Kg	☼	06/15/20 08:00	06/22/20 14:34	1
Selenium	ND		0.61	0.21	mg/Kg	☼	06/15/20 08:00	06/22/20 14:34	1

Method: 6010B SEP - SEP Metals (ICP) - Sum of Steps 1-7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**68000**		10	1.6	mg/Kg			06/25/20 11:53	1
Beryllium	**1.9**		0.25	0.0075	mg/Kg			06/25/20 11:53	1
Cadmium	**0.33**		0.25	0.011	mg/Kg			06/25/20 11:53	1
Cobalt	**8.8**		2.5	0.023	mg/Kg			06/25/20 11:53	1
Iron	**27000**		5.0	4.1	mg/Kg			06/25/20 11:53	1
Manganese	**480**		0.75	0.052	mg/Kg			06/25/20 11:53	1
Selenium	**2.4**		0.50	0.17	mg/Kg			06/25/20 11:53	1

Method: 6010B - SEP Metals (ICP) - Total

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**80000**		120	20	mg/Kg	☼	05/29/20 08:00	06/23/20 15:37	10
Beryllium	**1.7**		0.30	0.0091	mg/Kg	☼	05/29/20 08:00	06/23/20 14:01	1
Cadmium	**0.67**		0.30	0.013	mg/Kg	☼	05/29/20 08:00	06/23/20 14:01	1
Cobalt	**9.6**	**J**	15	0.16	mg/Kg	☼	05/29/20 08:00	06/23/20 17:19	5
Iron	**24000**		6.1	5.0	mg/Kg	☼	05/29/20 08:00	06/23/20 14:01	1
Manganese	**460**		0.91	0.13	mg/Kg	☼	05/29/20 08:00	06/23/20 14:01	1
Selenium	ND		0.61	0.21	mg/Kg	☼	05/29/20 08:00	06/23/20 14:01	1

Default Detection Limits

Client: Golder Associates Inc.
Job ID: 140-19131-1
Project/Site: SCS Site, Plant Branch

Method: 6010B SEP - SEP Metals (ICP) - Step 1

Prep: 3010A

SEP: Exchangeable

Analyte	RL	MDL	Units
Aluminum	10	1.6	mg/Kg
Beryllium	0.25	0.077	mg/Kg
Cadmium	0.25	0.016	mg/Kg
Cobalt	2.5	0.045	mg/Kg
Iron	5.0	2.9	mg/Kg
Manganese	0.75	0.031	mg/Kg
Selenium	0.50	0.17	mg/Kg

Method: 6010B SEP - SEP Metals (ICP) - Step 2

Prep: 3010A

SEP: Carbonate

Analyte	RL	MDL	Units
Aluminum	10	1.6	mg/Kg
Beryllium	0.25	0.016	mg/Kg
Cadmium	0.25	0.011	mg/Kg
Cobalt	2.5	0.063	mg/Kg
Iron	5.0	2.9	mg/Kg
Manganese	0.75	0.28	mg/Kg
Selenium	0.50	0.17	mg/Kg

Method: 6010B SEP - SEP Metals (ICP) - Step 3

Prep: 3010A

SEP: Non-Crystalline

Analyte	RL	MDL	Units
Aluminum	10	2.1	mg/Kg
Beryllium	0.25	0.015	mg/Kg
Cadmium	0.25	0.011	mg/Kg
Cobalt	2.5	0.045	mg/Kg
Iron	5.0	2.9	mg/Kg
Manganese	0.75	0.027	mg/Kg
Selenium	0.50	0.17	mg/Kg

Method: 6010B SEP - SEP Metals (ICP) - Step 4

Prep: 3010A

SEP: Metal Hydroxide

Analyte	RL	MDL	Units
Aluminum	10	1.6	mg/Kg
Beryllium	0.25	0.016	mg/Kg
Cadmium	0.25	0.011	mg/Kg
Cobalt	2.5	0.053	mg/Kg
Iron	5.0	2.9	mg/Kg
Manganese	0.75	0.13	mg/Kg
Selenium	0.50	0.47	mg/Kg

Method: 6010B SEP - SEP Metals (ICP) - Step 5

Prep: 3010A

SEP: Organic-Bound

Analyte	RL	MDL	Units
Aluminum	30	4.7	mg/Kg
Beryllium	0.75	0.063	mg/Kg

Method: 6010B SEP - SEP Metals (ICP) - Step 5 (Continued)

Prep: 3010A

SEP: Organic-Bound

Analyte	RL	MDL	Units
Cadmium	0.75	0.032	mg/Kg
Cobalt	7.5	0.12	mg/Kg
Iron	15	8.8	mg/Kg
Manganese	2.3	0.37	mg/Kg
Selenium	1.5	0.52	mg/Kg

Method: 6010B SEP - SEP Metals (ICP) - Step 6

SEP: Acid/Sulfide

Analyte	RL	MDL	Units
Aluminum	10	1.6	mg/Kg
Beryllium	0.25	0.012	mg/Kg
Cadmium	0.25	0.011	mg/Kg
Cobalt	2.5	0.046	mg/Kg
Iron	5.0	2.9	mg/Kg
Manganese	0.75	0.25	mg/Kg
Selenium	0.50	0.17	mg/Kg

Method: 6010B SEP - SEP Metals (ICP) - Step 7

Prep: Residual

Analyte	RL	MDL	Units
Aluminum	10	1.6	mg/Kg
Beryllium	0.25	0.0075	mg/Kg
Cadmium	0.25	0.011	mg/Kg
Cobalt	2.5	0.026	mg/Kg
Iron	5.0	4.1	mg/Kg
Manganese	0.75	0.11	mg/Kg
Selenium	0.50	0.17	mg/Kg

Method: 6010B SEP - SEP Metals (ICP) - Sum of Steps 1-7

Analyte	RL	MDL	Units
Aluminum	10	1.6	mg/Kg
Beryllium	0.25	0.0075	mg/Kg
Cadmium	0.25	0.011	mg/Kg
Cobalt	2.5	0.023	mg/Kg
Iron	5.0	4.1	mg/Kg
Manganese	0.75	0.052	mg/Kg
Selenium	0.50	0.17	mg/Kg

Method: 6010B - SEP Metals (ICP) - Total

Prep: Total

Analyte	RL	MDL	Units
Aluminum	10	1.6	mg/Kg
Beryllium	0.25	0.0075	mg/Kg
Cadmium	0.25	0.011	mg/Kg
Cobalt	2.5	0.026	mg/Kg
Iron	5.0	4.1	mg/Kg
Manganese	0.75	0.11	mg/Kg
Selenium	0.50	0.17	mg/Kg

Method: 6010B - SEP Metals (ICP) - Total

Lab Sample ID: MB 140-39918/15-A
Matrix: Solid
Analysis Batch: 40512

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39918

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		10	1.6	mg/Kg		05/29/20 08:00	06/23/20 12:12	1
Beryllium	ND		0.25	0.0075	mg/Kg		05/29/20 08:00	06/23/20 12:12	1
Cadmium	ND		0.25	0.011	mg/Kg		05/29/20 08:00	06/23/20 12:12	1
Cobalt	ND		2.5	0.026	mg/Kg		05/29/20 08:00	06/23/20 12:12	1
Iron	ND		5.0	4.1	mg/Kg		05/29/20 08:00	06/23/20 12:12	1
Manganese	ND		0.75	0.11	mg/Kg		05/29/20 08:00	06/23/20 12:12	1
Selenium	ND		0.50	0.17	mg/Kg		05/29/20 08:00	06/23/20 12:12	1

Lab Sample ID: LCS 140-39918/16-A
Matrix: Solid
Analysis Batch: 40512

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39918

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	100	103		mg/Kg		103	75 - 125
Beryllium	2.50	2.51		mg/Kg		100	75 - 125
Cadmium	2.50	2.63		mg/Kg		105	75 - 125
Cobalt	5.00	5.37		mg/Kg		107	75 - 125
Iron	50.0	52.3		mg/Kg		105	75 - 125
Manganese	5.00	5.34		mg/Kg		107	75 - 125
Selenium	7.50	7.60		mg/Kg		101	75 - 125

Lab Sample ID: LCSD 140-39918/17-A
Matrix: Solid
Analysis Batch: 40512

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 39918

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	100	102		mg/Kg		102	75 - 125	1	30
Beryllium	2.50	2.48		mg/Kg		99	75 - 125	1	30
Cadmium	2.50	2.62		mg/Kg		105	75 - 125	1	30
Cobalt	5.00	5.33		mg/Kg		107	75 - 125	1	30
Iron	50.0	51.3		mg/Kg		103	75 - 125	2	30
Manganese	5.00	5.29		mg/Kg		106	75 - 125	1	30
Selenium	7.50	7.53		mg/Kg		100	75 - 125	1	30

Method: 6010B SEP - SEP Metals (ICP)

Lab Sample ID: MB 140-40011/15-B ^4
Matrix: Solid
Analysis Batch: 40383

Client Sample ID: Method Blank
Prep Type: Step 1
Prep Batch: 40023

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		40	6.4	mg/Kg		06/02/20 08:00	06/16/20 11:55	4
Beryllium	ND		1.0	0.31	mg/Kg		06/02/20 08:00	06/16/20 11:55	4
Cadmium	ND		1.0	0.064	mg/Kg		06/02/20 08:00	06/16/20 11:55	4
Cobalt	ND		10	0.18	mg/Kg		06/02/20 08:00	06/16/20 11:55	4
Iron	ND		20	12	mg/Kg		06/02/20 08:00	06/16/20 11:55	4
Manganese	ND		3.0	0.12	mg/Kg		06/02/20 08:00	06/16/20 11:55	4
Selenium	ND		2.0	0.68	mg/Kg		06/02/20 08:00	06/16/20 11:55	4

Method: 6010B SEP - SEP Metals (ICP) (Continued)

Lab Sample ID: LCS 140-40011/16-B ^5
Matrix: Solid
Analysis Batch: 40383

Client Sample ID: Lab Control Sample
Prep Type: Step 1
Prep Batch: 40023

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	100	100		mg/Kg		100	75 - 125
Beryllium	2.50	2.49		mg/Kg		100	75 - 125
Cadmium	2.50	2.42		mg/Kg		97	75 - 125
Cobalt	5.00	4.76	J	mg/Kg		95	75 - 125
Iron	50.0	49.3		mg/Kg		99	75 - 125
Manganese	5.00	4.92		mg/Kg		98	75 - 125
Selenium	7.50	7.25		mg/Kg		97	75 - 125

Lab Sample ID: LCSD 140-40011/17-B ^5
Matrix: Solid
Analysis Batch: 40383

Client Sample ID: Lab Control Sample Dup
Prep Type: Step 1
Prep Batch: 40023

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	100	102		mg/Kg		102	75 - 125	2	30
Beryllium	2.50	2.63		mg/Kg		105	75 - 125	6	30
Cadmium	2.50	2.55		mg/Kg		102	75 - 125	5	30
Cobalt	5.00	5.03	J	mg/Kg		101	75 - 125	5	30
Iron	50.0	51.3		mg/Kg		103	75 - 125	4	30
Manganese	5.00	5.18		mg/Kg		104	75 - 125	5	30
Selenium	7.50	7.87		mg/Kg		105	75 - 125	8	30

Lab Sample ID: MB 140-40024/15-B ^3
Matrix: Solid
Analysis Batch: 40383

Client Sample ID: Method Blank
Prep Type: Step 2
Prep Batch: 40062

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		30	4.8	mg/Kg		06/03/20 08:00	06/16/20 13:48	3
Beryllium	ND		0.75	0.048	mg/Kg		06/03/20 08:00	06/16/20 13:48	3
Cadmium	ND		0.75	0.033	mg/Kg		06/03/20 08:00	06/16/20 13:48	3
Cobalt	ND		7.5	0.19	mg/Kg		06/03/20 08:00	06/16/20 13:48	3
Iron	ND		15	8.7	mg/Kg		06/03/20 08:00	06/16/20 13:48	3
Manganese	ND		2.3	0.84	mg/Kg		06/03/20 08:00	06/16/20 13:48	3
Selenium	ND		1.5	0.51	mg/Kg		06/03/20 08:00	06/16/20 13:48	3

Lab Sample ID: LCS 140-40024/16-B ^5
Matrix: Solid
Analysis Batch: 40383

Client Sample ID: Lab Control Sample
Prep Type: Step 2
Prep Batch: 40062

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	100	ND	*	mg/Kg		-1	75 - 125
Beryllium	2.50	1.28	J *	mg/Kg		51	75 - 125
Cadmium	2.50	2.35		mg/Kg		94	75 - 125
Cobalt	5.00	4.53	J	mg/Kg		91	75 - 125
Iron	50.0	ND	*	mg/Kg		5	75 - 125
Manganese	5.00	4.69		mg/Kg		94	75 - 125
Selenium	7.50	6.68		mg/Kg		89	75 - 125

Method: 6010B SEP - SEP Metals (ICP) (Continued)

Lab Sample ID: LCSD 140-40024/17-B ^5
Matrix: Solid
Analysis Batch: 40383

Client Sample ID: Lab Control Sample Dup
Prep Type: Step 2
Prep Batch: 40062

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum			100	ND	*	mg/Kg		-1	75 - 125	19	30
Beryllium			2.50	1.33	*	mg/Kg		53	75 - 125	4	30
Cadmium			2.50	2.43		mg/Kg		97	75 - 125	3	30
Cobalt			5.00	4.67	J	mg/Kg		93	75 - 125	3	30
Iron			50.0	ND	*	mg/Kg		7	75 - 125	25	30
Manganese			5.00	4.85		mg/Kg		97	75 - 125	3	30
Selenium			7.50	6.51		mg/Kg		87	75 - 125	3	30

Lab Sample ID: MB 140-40065/15-B
Matrix: Solid
Analysis Batch: 40441

Client Sample ID: Method Blank
Prep Type: Step 3
Prep Batch: 40096

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		10	2.1	mg/Kg		06/08/20 08:00	06/18/20 11:44	1
Beryllium	ND		0.25	0.015	mg/Kg		06/08/20 08:00	06/18/20 11:44	1
Cadmium	0.0820	J	0.25	0.011	mg/Kg		06/08/20 08:00	06/18/20 11:44	1
Cobalt	ND		2.5	0.045	mg/Kg		06/08/20 08:00	06/18/20 11:44	1
Iron	ND		5.0	2.9	mg/Kg		06/08/20 08:00	06/18/20 11:44	1
Manganese	0.0490	J	0.75	0.027	mg/Kg		06/08/20 08:00	06/18/20 11:44	1
Selenium	ND		0.50	0.17	mg/Kg		06/08/20 08:00	06/18/20 11:44	1

Lab Sample ID: LCS 140-40065/16-B
Matrix: Solid
Analysis Batch: 40441

Client Sample ID: Lab Control Sample
Prep Type: Step 3
Prep Batch: 40096

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum			100	91.6		mg/Kg		92	75 - 125
Beryllium			2.50	2.52		mg/Kg		101	75 - 125
Cadmium			2.50	1.31	*	mg/Kg		52	75 - 125
Cobalt			5.00	4.55		mg/Kg		91	75 - 125
Iron			50.0	49.4		mg/Kg		99	75 - 125
Manganese			5.00	4.74		mg/Kg		95	75 - 125
Selenium			7.50	7.72		mg/Kg		103	75 - 125

Lab Sample ID: LCSD 140-40065/17-B
Matrix: Solid
Analysis Batch: 40441

Client Sample ID: Lab Control Sample Dup
Prep Type: Step 3
Prep Batch: 40096

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum			100	95.6		mg/Kg		96	75 - 125	4	30
Beryllium			2.50	2.60		mg/Kg		104	75 - 125	3	30
Cadmium			2.50	1.37	*	mg/Kg		55	75 - 125	4	30
Cobalt			5.00	4.74		mg/Kg		95	75 - 125	4	30
Iron			50.0	51.1		mg/Kg		102	75 - 125	3	30
Manganese			5.00	4.91		mg/Kg		98	75 - 125	3	30
Selenium			7.50	8.04		mg/Kg		107	75 - 125	4	30

Method: 6010B SEP - SEP Metals (ICP) (Continued)

Lab Sample ID: MB 140-40100/15-B
Matrix: Solid
Analysis Batch: 40441

Client Sample ID: Method Blank
Prep Type: Step 4
Prep Batch: 40214

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		10	1.6	mg/Kg		06/10/20 08:00	06/18/20 13:39	1
Beryllium	ND		0.25	0.016	mg/Kg		06/10/20 08:00	06/18/20 13:39	1
Cadmium	ND		0.25	0.011	mg/Kg		06/10/20 08:00	06/18/20 13:39	1
Cobalt	ND		2.5	0.053	mg/Kg		06/10/20 08:00	06/18/20 13:39	1
Iron	ND		5.0	2.9	mg/Kg		06/10/20 08:00	06/18/20 13:39	1
Manganese	ND		0.75	0.13	mg/Kg		06/10/20 08:00	06/18/20 13:39	1
Selenium	0.953		0.50	0.47	mg/Kg		06/10/20 08:00	06/18/20 13:39	1

Lab Sample ID: LCS 140-40100/16-B
Matrix: Solid
Analysis Batch: 40441

Client Sample ID: Lab Control Sample
Prep Type: Step 4
Prep Batch: 40214

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	100	99.1		mg/Kg		99	75 - 125
Beryllium	2.50	2.62		mg/Kg		105	75 - 125
Cadmium	2.50	2.70		mg/Kg		108	75 - 125
Cobalt	5.00	5.26		mg/Kg		105	75 - 125
Iron	50.0	50.9		mg/Kg		102	75 - 125
Manganese	5.00	5.14		mg/Kg		103	75 - 125
Selenium	7.50	0.825	*	mg/Kg		11	75 - 125

Lab Sample ID: LCSD 140-40100/17-B
Matrix: Solid
Analysis Batch: 40441

Client Sample ID: Lab Control Sample Dup
Prep Type: Step 4
Prep Batch: 40214

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	100	99.2		mg/Kg		99	75 - 125	0	30
Beryllium	2.50	2.63		mg/Kg		105	75 - 125	1	30
Cadmium	2.50	2.72		mg/Kg		109	75 - 125	1	30
Cobalt	5.00	5.26		mg/Kg		105	75 - 125	0	30
Iron	50.0	50.8		mg/Kg		102	75 - 125	0	30
Manganese	5.00	5.20		mg/Kg		104	75 - 125	1	30
Selenium	7.50	0.620	*	mg/Kg		8	75 - 125	28	30

Lab Sample ID: MB 140-40215/15-B ^5
Matrix: Solid
Analysis Batch: 40453

Client Sample ID: Method Blank
Prep Type: Step 5
Prep Batch: 40276

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		150	24	mg/Kg		06/12/20 08:00	06/19/20 11:16	5
Beryllium	ND		3.8	0.32	mg/Kg		06/12/20 08:00	06/19/20 11:16	5
Cadmium	ND		3.8	0.16	mg/Kg		06/12/20 08:00	06/19/20 11:16	5
Cobalt	ND		38	0.60	mg/Kg		06/12/20 08:00	06/19/20 11:16	5
Iron	ND		75	44	mg/Kg		06/12/20 08:00	06/19/20 11:16	5
Manganese	ND		11	1.9	mg/Kg		06/12/20 08:00	06/19/20 11:16	5
Selenium	ND		7.5	2.6	mg/Kg		06/12/20 08:00	06/19/20 11:16	5

Method: 6010B SEP - SEP Metals (ICP) (Continued)

Lab Sample ID: LCS 140-40215/16-B ^5
Matrix: Solid
Analysis Batch: 40453

Client Sample ID: Lab Control Sample
Prep Type: Step 5
Prep Batch: 40276

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	300	ND	*	mg/Kg		6	75 - 125
Beryllium	7.50	3.83	*	mg/Kg		51	75 - 125
Cadmium	7.50	7.94		mg/Kg		106	75 - 125
Cobalt	15.0	1.41	J *	mg/Kg		9	75 - 125
Iron	150	ND	*	mg/Kg		3	75 - 125
Manganese	15.0	3.49	J *	mg/Kg		23	75 - 125
Selenium	22.5	23.4		mg/Kg		104	75 - 125

Lab Sample ID: LCSD 140-40215/17-B ^5
Matrix: Solid
Analysis Batch: 40453

Client Sample ID: Lab Control Sample Dup
Prep Type: Step 5
Prep Batch: 40276

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	300	ND	* *1	mg/Kg		4	75 - 125	32	30
Beryllium	7.50	3.99	*	mg/Kg		53	75 - 125	4	30
Cadmium	7.50	8.24		mg/Kg		110	75 - 125	4	30
Cobalt	15.0	1.58	J *	mg/Kg		11	75 - 125	12	30
Iron	150	ND	* *1	mg/Kg		4	75 - 125	34	30
Manganese	15.0	4.36	J *	mg/Kg		29	75 - 125	22	30
Selenium	22.5	24.8		mg/Kg		110	75 - 125	6	30

Lab Sample ID: MB 140-40277/15-A
Matrix: Solid
Analysis Batch: 40453

Client Sample ID: Method Blank
Prep Type: Step 6
Prep Batch: 40277

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		10	1.6	mg/Kg		06/12/20 08:00	06/19/20 13:12	1
Beryllium	ND		0.25	0.012	mg/Kg		06/12/20 08:00	06/19/20 13:12	1
Cadmium	ND		0.25	0.011	mg/Kg		06/12/20 08:00	06/19/20 13:12	1
Cobalt	ND		2.5	0.046	mg/Kg		06/12/20 08:00	06/19/20 13:12	1
Iron	ND		5.0	2.9	mg/Kg		06/12/20 08:00	06/19/20 13:12	1
Manganese	ND		0.75	0.25	mg/Kg		06/12/20 08:00	06/19/20 13:12	1
Selenium	ND		0.50	0.17	mg/Kg		06/12/20 08:00	06/19/20 13:12	1

Lab Sample ID: LCS 140-40277/16-A
Matrix: Solid
Analysis Batch: 40453

Client Sample ID: Lab Control Sample
Prep Type: Step 6
Prep Batch: 40277

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	100	101		mg/Kg		101	75 - 125
Beryllium	2.50	2.63		mg/Kg		105	75 - 125
Cadmium	2.50	2.71		mg/Kg		108	75 - 125
Cobalt	5.00	5.22		mg/Kg		104	75 - 125
Iron	50.0	50.8		mg/Kg		102	75 - 125
Manganese	5.00	5.20		mg/Kg		104	75 - 125
Selenium	7.50	7.90		mg/Kg		105	75 - 125

Method: 6010B SEP - SEP Metals (ICP) (Continued)

Lab Sample ID: LCSD 140-40277/17-A
Matrix: Solid
Analysis Batch: 40453

Client Sample ID: Lab Control Sample Dup
Prep Type: Step 6
Prep Batch: 40277

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum			100	100		mg/Kg		100	75 - 125	1	30
Beryllium			2.50	2.61		mg/Kg		105	75 - 125	1	30
Cadmium			2.50	2.70		mg/Kg		108	75 - 125	0	30
Cobalt			5.00	5.20		mg/Kg		104	75 - 125	0	30
Iron			50.0	50.5		mg/Kg		101	75 - 125	1	30
Manganese			5.00	5.16		mg/Kg		103	75 - 125	1	30
Selenium			7.50	7.92		mg/Kg		106	75 - 125	0	30

Lab Sample ID: MB 140-40294/15-A
Matrix: Solid
Analysis Batch: 40487

Client Sample ID: Method Blank
Prep Type: Step 7
Prep Batch: 40294

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		10	1.6	mg/Kg		06/15/20 08:00	06/22/20 12:47	1
Beryllium	ND		0.25	0.0075	mg/Kg		06/15/20 08:00	06/22/20 12:47	1
Cadmium	ND		0.25	0.011	mg/Kg		06/15/20 08:00	06/22/20 12:47	1
Cobalt	ND		2.5	0.026	mg/Kg		06/15/20 08:00	06/22/20 12:47	1
Iron	ND		5.0	4.1	mg/Kg		06/15/20 08:00	06/22/20 12:47	1
Manganese	ND		0.75	0.11	mg/Kg		06/15/20 08:00	06/22/20 12:47	1
Selenium	ND		0.50	0.17	mg/Kg		06/15/20 08:00	06/22/20 12:47	1

Lab Sample ID: LCS 140-40294/16-A
Matrix: Solid
Analysis Batch: 40487

Client Sample ID: Lab Control Sample
Prep Type: Step 7
Prep Batch: 40294

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum			100	103		mg/Kg		103	75 - 125
Beryllium			2.50	2.47		mg/Kg		99	75 - 125
Cadmium			2.50	2.46		mg/Kg		98	75 - 125
Cobalt			5.00	5.06		mg/Kg		101	75 - 125
Iron			50.0	53.3		mg/Kg		107	75 - 125
Manganese			5.00	5.35		mg/Kg		107	75 - 125
Selenium			7.50	6.95		mg/Kg		93	75 - 125

Lab Sample ID: LCSD 140-40294/17-A
Matrix: Solid
Analysis Batch: 40487

Client Sample ID: Lab Control Sample Dup
Prep Type: Step 7
Prep Batch: 40294

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum			100	103		mg/Kg		103	75 - 125	0	30
Beryllium			2.50	2.47		mg/Kg		99	75 - 125	0	30
Cadmium			2.50	2.45		mg/Kg		98	75 - 125	0	30
Cobalt			5.00	5.03		mg/Kg		101	75 - 125	1	30
Iron			50.0	53.3		mg/Kg		107	75 - 125	0	30
Manganese			5.00	5.35		mg/Kg		107	75 - 125	0	30
Selenium			7.50	6.96		mg/Kg		93	75 - 125	0	30

Metals

Prep Batch: 39918

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-19131-1	BRGWA-2S(2) 39 FT BGS	Total/NA	Solid	Total	
140-19131-2	BRGWA-2S(2) 43 FT BGS	Total/NA	Solid	Total	
140-19131-3	BRGWA-5S(2) 38 FT BGS	Total/NA	Solid	Total	
140-19131-4	BRGWA-5S(2) 32 FT BGS	Total/NA	Solid	Total	
140-19131-5	BRGWA-6S(2) 42 FT BGS	Total/NA	Solid	Total	
140-19131-6	BRGWA-6S(2) 48 FT BGS	Total/NA	Solid	Total	
140-19131-7	PZ-52D 18 FT BGS	Total/NA	Solid	Total	
140-19131-8	PZ-52D 24-25 FT BGS	Total/NA	Solid	Total	
140-19131-9	BRGWC-50(2) 59 FT BGS	Total/NA	Solid	Total	
140-19131-10	BRGWC-50(2) 63-63.5 FT BGS	Total/NA	Solid	Total	
140-19131-11	PZ-53D 30 FT BGS	Total/NA	Solid	Total	
140-19131-12	PZ-53D 36 FT BGS	Total/NA	Solid	Total	
MB 140-39918/15-A	Method Blank	Total/NA	Solid	Total	
LCS 140-39918/16-A	Lab Control Sample	Total/NA	Solid	Total	
LCSD 140-39918/17-A	Lab Control Sample Dup	Total/NA	Solid	Total	

SEP Batch: 40011

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-19131-1	BRGWA-2S(2) 39 FT BGS	Step 1	Solid	Exchangeable	
140-19131-2	BRGWA-2S(2) 43 FT BGS	Step 1	Solid	Exchangeable	
140-19131-3	BRGWA-5S(2) 38 FT BGS	Step 1	Solid	Exchangeable	
140-19131-4	BRGWA-5S(2) 32 FT BGS	Step 1	Solid	Exchangeable	
140-19131-5	BRGWA-6S(2) 42 FT BGS	Step 1	Solid	Exchangeable	
140-19131-6	BRGWA-6S(2) 48 FT BGS	Step 1	Solid	Exchangeable	
140-19131-7	PZ-52D 18 FT BGS	Step 1	Solid	Exchangeable	
140-19131-8	PZ-52D 24-25 FT BGS	Step 1	Solid	Exchangeable	
140-19131-9	BRGWC-50(2) 59 FT BGS	Step 1	Solid	Exchangeable	
140-19131-10	BRGWC-50(2) 63-63.5 FT BGS	Step 1	Solid	Exchangeable	
140-19131-11	PZ-53D 30 FT BGS	Step 1	Solid	Exchangeable	
140-19131-12	PZ-53D 36 FT BGS	Step 1	Solid	Exchangeable	
MB 140-40011/15-B ^4	Method Blank	Step 1	Solid	Exchangeable	
LCS 140-40011/16-B ^5	Lab Control Sample	Step 1	Solid	Exchangeable	
LCSD 140-40011/17-B ^5	Lab Control Sample Dup	Step 1	Solid	Exchangeable	

Prep Batch: 40023

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-19131-1	BRGWA-2S(2) 39 FT BGS	Step 1	Solid	3010A	40011
140-19131-2	BRGWA-2S(2) 43 FT BGS	Step 1	Solid	3010A	40011
140-19131-3	BRGWA-5S(2) 38 FT BGS	Step 1	Solid	3010A	40011
140-19131-4	BRGWA-5S(2) 32 FT BGS	Step 1	Solid	3010A	40011
140-19131-5	BRGWA-6S(2) 42 FT BGS	Step 1	Solid	3010A	40011
140-19131-6	BRGWA-6S(2) 48 FT BGS	Step 1	Solid	3010A	40011
140-19131-7	PZ-52D 18 FT BGS	Step 1	Solid	3010A	40011
140-19131-8	PZ-52D 24-25 FT BGS	Step 1	Solid	3010A	40011
140-19131-9	BRGWC-50(2) 59 FT BGS	Step 1	Solid	3010A	40011
140-19131-10	BRGWC-50(2) 63-63.5 FT BGS	Step 1	Solid	3010A	40011
140-19131-11	PZ-53D 30 FT BGS	Step 1	Solid	3010A	40011
140-19131-12	PZ-53D 36 FT BGS	Step 1	Solid	3010A	40011
MB 140-40011/15-B ^4	Method Blank	Step 1	Solid	3010A	40011
LCS 140-40011/16-B ^5	Lab Control Sample	Step 1	Solid	3010A	40011
LCSD 140-40011/17-B ^5	Lab Control Sample Dup	Step 1	Solid	3010A	40011

Metals

SEP Batch: 40024

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-19131-1	BRGWA-2S(2) 39 FT BGS	Step 2	Solid	Carbonate	
140-19131-2	BRGWA-2S(2) 43 FT BGS	Step 2	Solid	Carbonate	
140-19131-3	BRGWA-5S(2) 38 FT BGS	Step 2	Solid	Carbonate	
140-19131-4	BRGWA-5S(2) 32 FT BGS	Step 2	Solid	Carbonate	
140-19131-5	BRGWA-6S(2) 42 FT BGS	Step 2	Solid	Carbonate	
140-19131-6	BRGWA-6S(2) 48 FT BGS	Step 2	Solid	Carbonate	
140-19131-7	PZ-52D 18 FT BGS	Step 2	Solid	Carbonate	
140-19131-8	PZ-52D 24-25 FT BGS	Step 2	Solid	Carbonate	
140-19131-9	BRGWC-50(2) 59 FT BGS	Step 2	Solid	Carbonate	
140-19131-10	BRGWC-50(2) 63-63.5 FT BGS	Step 2	Solid	Carbonate	
140-19131-11	PZ-53D 30 FT BGS	Step 2	Solid	Carbonate	
140-19131-12	PZ-53D 36 FT BGS	Step 2	Solid	Carbonate	
MB 140-40024/15-B ^3	Method Blank	Step 2	Solid	Carbonate	
LCS 140-40024/16-B ^5	Lab Control Sample	Step 2	Solid	Carbonate	
LCSD 140-40024/17-B ^5	Lab Control Sample Dup	Step 2	Solid	Carbonate	

Prep Batch: 40062

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-19131-1	BRGWA-2S(2) 39 FT BGS	Step 2	Solid	3010A	40024
140-19131-2	BRGWA-2S(2) 43 FT BGS	Step 2	Solid	3010A	40024
140-19131-3	BRGWA-5S(2) 38 FT BGS	Step 2	Solid	3010A	40024
140-19131-4	BRGWA-5S(2) 32 FT BGS	Step 2	Solid	3010A	40024
140-19131-5	BRGWA-6S(2) 42 FT BGS	Step 2	Solid	3010A	40024
140-19131-6	BRGWA-6S(2) 48 FT BGS	Step 2	Solid	3010A	40024
140-19131-7	PZ-52D 18 FT BGS	Step 2	Solid	3010A	40024
140-19131-8	PZ-52D 24-25 FT BGS	Step 2	Solid	3010A	40024
140-19131-9	BRGWC-50(2) 59 FT BGS	Step 2	Solid	3010A	40024
140-19131-10	BRGWC-50(2) 63-63.5 FT BGS	Step 2	Solid	3010A	40024
140-19131-11	PZ-53D 30 FT BGS	Step 2	Solid	3010A	40024
140-19131-12	PZ-53D 36 FT BGS	Step 2	Solid	3010A	40024
MB 140-40024/15-B ^3	Method Blank	Step 2	Solid	3010A	40024
LCS 140-40024/16-B ^5	Lab Control Sample	Step 2	Solid	3010A	40024
LCSD 140-40024/17-B ^5	Lab Control Sample Dup	Step 2	Solid	3010A	40024

SEP Batch: 40065

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-19131-1	BRGWA-2S(2) 39 FT BGS	Step 3	Solid	Non-Crystalline	
140-19131-2	BRGWA-2S(2) 43 FT BGS	Step 3	Solid	Non-Crystalline	
140-19131-3	BRGWA-5S(2) 38 FT BGS	Step 3	Solid	Non-Crystalline	
140-19131-4	BRGWA-5S(2) 32 FT BGS	Step 3	Solid	Non-Crystalline	
140-19131-5	BRGWA-6S(2) 42 FT BGS	Step 3	Solid	Non-Crystalline	
140-19131-6	BRGWA-6S(2) 48 FT BGS	Step 3	Solid	Non-Crystalline	
140-19131-7	PZ-52D 18 FT BGS	Step 3	Solid	Non-Crystalline	
140-19131-8	PZ-52D 24-25 FT BGS	Step 3	Solid	Non-Crystalline	
140-19131-9	BRGWC-50(2) 59 FT BGS	Step 3	Solid	Non-Crystalline	
140-19131-10	BRGWC-50(2) 63-63.5 FT BGS	Step 3	Solid	Non-Crystalline	
140-19131-11	PZ-53D 30 FT BGS	Step 3	Solid	Non-Crystalline	
140-19131-12	PZ-53D 36 FT BGS	Step 3	Solid	Non-Crystalline	
MB 140-40065/15-B	Method Blank	Step 3	Solid	Non-Crystalline	
LCS 140-40065/16-B	Lab Control Sample	Step 3	Solid	Non-Crystalline	
LCSD 140-40065/17-B	Lab Control Sample Dup	Step 3	Solid	Non-Crystalline	

Metals

Prep Batch: 40096

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-19131-1	BRGWA-2S(2) 39 FT BGS	Step 3	Solid	3010A	40065
140-19131-2	BRGWA-2S(2) 43 FT BGS	Step 3	Solid	3010A	40065
140-19131-3	BRGWA-5S(2) 38 FT BGS	Step 3	Solid	3010A	40065
140-19131-4	BRGWA-5S(2) 32 FT BGS	Step 3	Solid	3010A	40065
140-19131-5	BRGWA-6S(2) 42 FT BGS	Step 3	Solid	3010A	40065
140-19131-6	BRGWA-6S(2) 48 FT BGS	Step 3	Solid	3010A	40065
140-19131-7	PZ-52D 18 FT BGS	Step 3	Solid	3010A	40065
140-19131-8	PZ-52D 24-25 FT BGS	Step 3	Solid	3010A	40065
140-19131-9	BRGWC-50(2) 59 FT BGS	Step 3	Solid	3010A	40065
140-19131-10	BRGWC-50(2) 63-63.5 FT BGS	Step 3	Solid	3010A	40065
140-19131-11	PZ-53D 30 FT BGS	Step 3	Solid	3010A	40065
140-19131-12	PZ-53D 36 FT BGS	Step 3	Solid	3010A	40065
MB 140-40065/15-B	Method Blank	Step 3	Solid	3010A	40065
LCS 140-40065/16-B	Lab Control Sample	Step 3	Solid	3010A	40065
LCSD 140-40065/17-B	Lab Control Sample Dup	Step 3	Solid	3010A	40065

SEP Batch: 40100

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-19131-1	BRGWA-2S(2) 39 FT BGS	Step 4	Solid	Metal Hydroxide	
140-19131-2	BRGWA-2S(2) 43 FT BGS	Step 4	Solid	Metal Hydroxide	
140-19131-3	BRGWA-5S(2) 38 FT BGS	Step 4	Solid	Metal Hydroxide	
140-19131-4	BRGWA-5S(2) 32 FT BGS	Step 4	Solid	Metal Hydroxide	
140-19131-5	BRGWA-6S(2) 42 FT BGS	Step 4	Solid	Metal Hydroxide	
140-19131-6	BRGWA-6S(2) 48 FT BGS	Step 4	Solid	Metal Hydroxide	
140-19131-7	PZ-52D 18 FT BGS	Step 4	Solid	Metal Hydroxide	
140-19131-8	PZ-52D 24-25 FT BGS	Step 4	Solid	Metal Hydroxide	
140-19131-9	BRGWC-50(2) 59 FT BGS	Step 4	Solid	Metal Hydroxide	
140-19131-10	BRGWC-50(2) 63-63.5 FT BGS	Step 4	Solid	Metal Hydroxide	
140-19131-11	PZ-53D 30 FT BGS	Step 4	Solid	Metal Hydroxide	
140-19131-12	PZ-53D 36 FT BGS	Step 4	Solid	Metal Hydroxide	
MB 140-40100/15-B	Method Blank	Step 4	Solid	Metal Hydroxide	
LCS 140-40100/16-B	Lab Control Sample	Step 4	Solid	Metal Hydroxide	
LCSD 140-40100/17-B	Lab Control Sample Dup	Step 4	Solid	Metal Hydroxide	

Prep Batch: 40214

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-19131-1	BRGWA-2S(2) 39 FT BGS	Step 4	Solid	3010A	40100
140-19131-2	BRGWA-2S(2) 43 FT BGS	Step 4	Solid	3010A	40100
140-19131-3	BRGWA-5S(2) 38 FT BGS	Step 4	Solid	3010A	40100
140-19131-4	BRGWA-5S(2) 32 FT BGS	Step 4	Solid	3010A	40100
140-19131-5	BRGWA-6S(2) 42 FT BGS	Step 4	Solid	3010A	40100
140-19131-6	BRGWA-6S(2) 48 FT BGS	Step 4	Solid	3010A	40100
140-19131-7	PZ-52D 18 FT BGS	Step 4	Solid	3010A	40100
140-19131-8	PZ-52D 24-25 FT BGS	Step 4	Solid	3010A	40100
140-19131-9	BRGWC-50(2) 59 FT BGS	Step 4	Solid	3010A	40100
140-19131-10	BRGWC-50(2) 63-63.5 FT BGS	Step 4	Solid	3010A	40100
140-19131-11	PZ-53D 30 FT BGS	Step 4	Solid	3010A	40100
140-19131-12	PZ-53D 36 FT BGS	Step 4	Solid	3010A	40100
MB 140-40100/15-B	Method Blank	Step 4	Solid	3010A	40100
LCS 140-40100/16-B	Lab Control Sample	Step 4	Solid	3010A	40100
LCSD 140-40100/17-B	Lab Control Sample Dup	Step 4	Solid	3010A	40100

Metals

SEP Batch: 40215

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-19131-1	BRGWA-2S(2) 39 FT BGS	Step 5	Solid	Organic-Bound	
140-19131-2	BRGWA-2S(2) 43 FT BGS	Step 5	Solid	Organic-Bound	
140-19131-3	BRGWA-5S(2) 38 FT BGS	Step 5	Solid	Organic-Bound	
140-19131-4	BRGWA-5S(2) 32 FT BGS	Step 5	Solid	Organic-Bound	
140-19131-5	BRGWA-6S(2) 42 FT BGS	Step 5	Solid	Organic-Bound	
140-19131-6	BRGWA-6S(2) 48 FT BGS	Step 5	Solid	Organic-Bound	
140-19131-7	PZ-52D 18 FT BGS	Step 5	Solid	Organic-Bound	
140-19131-8	PZ-52D 24-25 FT BGS	Step 5	Solid	Organic-Bound	
140-19131-9	BRGWC-50(2) 59 FT BGS	Step 5	Solid	Organic-Bound	
140-19131-10	BRGWC-50(2) 63-63.5 FT BGS	Step 5	Solid	Organic-Bound	
140-19131-11	PZ-53D 30 FT BGS	Step 5	Solid	Organic-Bound	
140-19131-12	PZ-53D 36 FT BGS	Step 5	Solid	Organic-Bound	
MB 140-40215/15-B ^5	Method Blank	Step 5	Solid	Organic-Bound	
LCS 140-40215/16-B ^5	Lab Control Sample	Step 5	Solid	Organic-Bound	
LCSD 140-40215/17-B ^5	Lab Control Sample Dup	Step 5	Solid	Organic-Bound	

Prep Batch: 40276

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-19131-1	BRGWA-2S(2) 39 FT BGS	Step 5	Solid	3010A	40215
140-19131-2	BRGWA-2S(2) 43 FT BGS	Step 5	Solid	3010A	40215
140-19131-3	BRGWA-5S(2) 38 FT BGS	Step 5	Solid	3010A	40215
140-19131-4	BRGWA-5S(2) 32 FT BGS	Step 5	Solid	3010A	40215
140-19131-5	BRGWA-6S(2) 42 FT BGS	Step 5	Solid	3010A	40215
140-19131-6	BRGWA-6S(2) 48 FT BGS	Step 5	Solid	3010A	40215
140-19131-7	PZ-52D 18 FT BGS	Step 5	Solid	3010A	40215
140-19131-8	PZ-52D 24-25 FT BGS	Step 5	Solid	3010A	40215
140-19131-9	BRGWC-50(2) 59 FT BGS	Step 5	Solid	3010A	40215
140-19131-10	BRGWC-50(2) 63-63.5 FT BGS	Step 5	Solid	3010A	40215
140-19131-11	PZ-53D 30 FT BGS	Step 5	Solid	3010A	40215
140-19131-12	PZ-53D 36 FT BGS	Step 5	Solid	3010A	40215
MB 140-40215/15-B ^5	Method Blank	Step 5	Solid	3010A	40215
LCS 140-40215/16-B ^5	Lab Control Sample	Step 5	Solid	3010A	40215
LCSD 140-40215/17-B ^5	Lab Control Sample Dup	Step 5	Solid	3010A	40215

SEP Batch: 40277

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-19131-1	BRGWA-2S(2) 39 FT BGS	Step 6	Solid	Acid/Sulfide	
140-19131-2	BRGWA-2S(2) 43 FT BGS	Step 6	Solid	Acid/Sulfide	
140-19131-3	BRGWA-5S(2) 38 FT BGS	Step 6	Solid	Acid/Sulfide	
140-19131-4	BRGWA-5S(2) 32 FT BGS	Step 6	Solid	Acid/Sulfide	
140-19131-5	BRGWA-6S(2) 42 FT BGS	Step 6	Solid	Acid/Sulfide	
140-19131-6	BRGWA-6S(2) 48 FT BGS	Step 6	Solid	Acid/Sulfide	
140-19131-7	PZ-52D 18 FT BGS	Step 6	Solid	Acid/Sulfide	
140-19131-8	PZ-52D 24-25 FT BGS	Step 6	Solid	Acid/Sulfide	
140-19131-9	BRGWC-50(2) 59 FT BGS	Step 6	Solid	Acid/Sulfide	
140-19131-10	BRGWC-50(2) 63-63.5 FT BGS	Step 6	Solid	Acid/Sulfide	
140-19131-11	PZ-53D 30 FT BGS	Step 6	Solid	Acid/Sulfide	
140-19131-12	PZ-53D 36 FT BGS	Step 6	Solid	Acid/Sulfide	
MB 140-40277/15-A	Method Blank	Step 6	Solid	Acid/Sulfide	
LCS 140-40277/16-A	Lab Control Sample	Step 6	Solid	Acid/Sulfide	
LCSD 140-40277/17-A	Lab Control Sample Dup	Step 6	Solid	Acid/Sulfide	

Metals

Prep Batch: 40294

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-19131-1	BRGWA-2S(2) 39 FT BGS	Step 7	Solid	Residual	
140-19131-2	BRGWA-2S(2) 43 FT BGS	Step 7	Solid	Residual	
140-19131-3	BRGWA-5S(2) 38 FT BGS	Step 7	Solid	Residual	
140-19131-4	BRGWA-5S(2) 32 FT BGS	Step 7	Solid	Residual	
140-19131-5	BRGWA-6S(2) 42 FT BGS	Step 7	Solid	Residual	
140-19131-6	BRGWA-6S(2) 48 FT BGS	Step 7	Solid	Residual	
140-19131-7	PZ-52D 18 FT BGS	Step 7	Solid	Residual	
140-19131-8	PZ-52D 24-25 FT BGS	Step 7	Solid	Residual	
140-19131-9	BRGWC-50(2) 59 FT BGS	Step 7	Solid	Residual	
140-19131-10	BRGWC-50(2) 63-63.5 FT BGS	Step 7	Solid	Residual	
140-19131-11	PZ-53D 30 FT BGS	Step 7	Solid	Residual	
140-19131-12	PZ-53D 36 FT BGS	Step 7	Solid	Residual	
MB 140-40294/15-A	Method Blank	Step 7	Solid	Residual	
LCS 140-40294/16-A	Lab Control Sample	Step 7	Solid	Residual	
LCSD 140-40294/17-A	Lab Control Sample Dup	Step 7	Solid	Residual	

Analysis Batch: 40383

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-19131-1	BRGWA-2S(2) 39 FT BGS	Step 1	Solid	6010B SEP	40023
140-19131-1	BRGWA-2S(2) 39 FT BGS	Step 2	Solid	6010B SEP	40062
140-19131-2	BRGWA-2S(2) 43 FT BGS	Step 1	Solid	6010B SEP	40023
140-19131-2	BRGWA-2S(2) 43 FT BGS	Step 2	Solid	6010B SEP	40062
140-19131-3	BRGWA-5S(2) 38 FT BGS	Step 1	Solid	6010B SEP	40023
140-19131-3	BRGWA-5S(2) 38 FT BGS	Step 2	Solid	6010B SEP	40062
140-19131-4	BRGWA-5S(2) 32 FT BGS	Step 1	Solid	6010B SEP	40023
140-19131-4	BRGWA-5S(2) 32 FT BGS	Step 2	Solid	6010B SEP	40062
140-19131-5	BRGWA-6S(2) 42 FT BGS	Step 1	Solid	6010B SEP	40023
140-19131-5	BRGWA-6S(2) 42 FT BGS	Step 2	Solid	6010B SEP	40062
140-19131-6	BRGWA-6S(2) 48 FT BGS	Step 1	Solid	6010B SEP	40023
140-19131-6	BRGWA-6S(2) 48 FT BGS	Step 2	Solid	6010B SEP	40062
140-19131-7	PZ-52D 18 FT BGS	Step 1	Solid	6010B SEP	40023
140-19131-7	PZ-52D 18 FT BGS	Step 2	Solid	6010B SEP	40062
140-19131-8	PZ-52D 24-25 FT BGS	Step 1	Solid	6010B SEP	40023
140-19131-8	PZ-52D 24-25 FT BGS	Step 2	Solid	6010B SEP	40062
140-19131-9	BRGWC-50(2) 59 FT BGS	Step 1	Solid	6010B SEP	40023
140-19131-9	BRGWC-50(2) 59 FT BGS	Step 2	Solid	6010B SEP	40062
140-19131-10	BRGWC-50(2) 63-63.5 FT BGS	Step 1	Solid	6010B SEP	40023
140-19131-10	BRGWC-50(2) 63-63.5 FT BGS	Step 2	Solid	6010B SEP	40062
140-19131-11	PZ-53D 30 FT BGS	Step 1	Solid	6010B SEP	40023
140-19131-11	PZ-53D 30 FT BGS	Step 2	Solid	6010B SEP	40062
140-19131-12	PZ-53D 36 FT BGS	Step 1	Solid	6010B SEP	40023
140-19131-12	PZ-53D 36 FT BGS	Step 2	Solid	6010B SEP	40062
MB 140-40011/15-B ^4	Method Blank	Step 1	Solid	6010B SEP	40023
MB 140-40024/15-B ^3	Method Blank	Step 2	Solid	6010B SEP	40062
LCS 140-40011/16-B ^5	Lab Control Sample	Step 1	Solid	6010B SEP	40023
LCS 140-40024/16-B ^5	Lab Control Sample	Step 2	Solid	6010B SEP	40062
LCSD 140-40011/17-B ^5	Lab Control Sample Dup	Step 1	Solid	6010B SEP	40023
LCSD 140-40024/17-B ^5	Lab Control Sample Dup	Step 2	Solid	6010B SEP	40062

Metals

Analysis Batch: 40441

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-19131-1	BRGWA-2S(2) 39 FT BGS	Step 3	Solid	6010B SEP	40096
140-19131-1	BRGWA-2S(2) 39 FT BGS	Step 4	Solid	6010B SEP	40214
140-19131-2	BRGWA-2S(2) 43 FT BGS	Step 3	Solid	6010B SEP	40096
140-19131-2	BRGWA-2S(2) 43 FT BGS	Step 4	Solid	6010B SEP	40214
140-19131-3	BRGWA-5S(2) 38 FT BGS	Step 3	Solid	6010B SEP	40096
140-19131-3	BRGWA-5S(2) 38 FT BGS	Step 4	Solid	6010B SEP	40214
140-19131-4	BRGWA-5S(2) 32 FT BGS	Step 3	Solid	6010B SEP	40096
140-19131-4	BRGWA-5S(2) 32 FT BGS	Step 4	Solid	6010B SEP	40214
140-19131-5	BRGWA-6S(2) 42 FT BGS	Step 3	Solid	6010B SEP	40096
140-19131-5	BRGWA-6S(2) 42 FT BGS	Step 4	Solid	6010B SEP	40214
140-19131-6	BRGWA-6S(2) 48 FT BGS	Step 3	Solid	6010B SEP	40096
140-19131-6	BRGWA-6S(2) 48 FT BGS	Step 4	Solid	6010B SEP	40214
140-19131-7	PZ-52D 18 FT BGS	Step 3	Solid	6010B SEP	40096
140-19131-7	PZ-52D 18 FT BGS	Step 4	Solid	6010B SEP	40214
140-19131-8	PZ-52D 24-25 FT BGS	Step 3	Solid	6010B SEP	40096
140-19131-8	PZ-52D 24-25 FT BGS	Step 4	Solid	6010B SEP	40214
140-19131-9	BRGWC-50(2) 59 FT BGS	Step 3	Solid	6010B SEP	40096
140-19131-9	BRGWC-50(2) 59 FT BGS	Step 4	Solid	6010B SEP	40214
140-19131-10	BRGWC-50(2) 63-63.5 FT BGS	Step 3	Solid	6010B SEP	40096
140-19131-10	BRGWC-50(2) 63-63.5 FT BGS	Step 4	Solid	6010B SEP	40214
140-19131-11	PZ-53D 30 FT BGS	Step 3	Solid	6010B SEP	40096
140-19131-11	PZ-53D 30 FT BGS	Step 4	Solid	6010B SEP	40214
140-19131-12	PZ-53D 36 FT BGS	Step 3	Solid	6010B SEP	40096
140-19131-12	PZ-53D 36 FT BGS	Step 4	Solid	6010B SEP	40214
MB 140-40065/15-B	Method Blank	Step 3	Solid	6010B SEP	40096
MB 140-40100/15-B	Method Blank	Step 4	Solid	6010B SEP	40214
LCS 140-40065/16-B	Lab Control Sample	Step 3	Solid	6010B SEP	40096
LCS 140-40100/16-B	Lab Control Sample	Step 4	Solid	6010B SEP	40214
LCSD 140-40065/17-B	Lab Control Sample Dup	Step 3	Solid	6010B SEP	40096
LCSD 140-40100/17-B	Lab Control Sample Dup	Step 4	Solid	6010B SEP	40214

Analysis Batch: 40453

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-19131-1	BRGWA-2S(2) 39 FT BGS	Step 5	Solid	6010B SEP	40276
140-19131-1	BRGWA-2S(2) 39 FT BGS	Step 6	Solid	6010B SEP	40277
140-19131-1	BRGWA-2S(2) 39 FT BGS	Step 6	Solid	6010B SEP	40277
140-19131-2	BRGWA-2S(2) 43 FT BGS	Step 5	Solid	6010B SEP	40276
140-19131-2	BRGWA-2S(2) 43 FT BGS	Step 6	Solid	6010B SEP	40277
140-19131-3	BRGWA-5S(2) 38 FT BGS	Step 5	Solid	6010B SEP	40276
140-19131-3	BRGWA-5S(2) 38 FT BGS	Step 6	Solid	6010B SEP	40277
140-19131-4	BRGWA-5S(2) 32 FT BGS	Step 5	Solid	6010B SEP	40276
140-19131-4	BRGWA-5S(2) 32 FT BGS	Step 6	Solid	6010B SEP	40277
140-19131-5	BRGWA-6S(2) 42 FT BGS	Step 5	Solid	6010B SEP	40276
140-19131-5	BRGWA-6S(2) 42 FT BGS	Step 6	Solid	6010B SEP	40277
140-19131-6	BRGWA-6S(2) 48 FT BGS	Step 5	Solid	6010B SEP	40276
140-19131-6	BRGWA-6S(2) 48 FT BGS	Step 6	Solid	6010B SEP	40277
140-19131-7	PZ-52D 18 FT BGS	Step 5	Solid	6010B SEP	40276
140-19131-7	PZ-52D 18 FT BGS	Step 6	Solid	6010B SEP	40277
140-19131-7	PZ-52D 18 FT BGS	Step 6	Solid	6010B SEP	40277
140-19131-8	PZ-52D 24-25 FT BGS	Step 5	Solid	6010B SEP	40276
140-19131-8	PZ-52D 24-25 FT BGS	Step 6	Solid	6010B SEP	40277

Metals (Continued)

Analysis Batch: 40453 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-19131-9	BRGWC-50(2) 59 FT BGS	Step 5	Solid	6010B SEP	40276
140-19131-9	BRGWC-50(2) 59 FT BGS	Step 6	Solid	6010B SEP	40277
140-19131-9	BRGWC-50(2) 59 FT BGS	Step 6	Solid	6010B SEP	40277
140-19131-10	BRGWC-50(2) 63-63.5 FT BGS	Step 5	Solid	6010B SEP	40276
140-19131-10	BRGWC-50(2) 63-63.5 FT BGS	Step 6	Solid	6010B SEP	40277
140-19131-10	BRGWC-50(2) 63-63.5 FT BGS	Step 6	Solid	6010B SEP	40277
140-19131-11	PZ-53D 30 FT BGS	Step 5	Solid	6010B SEP	40276
140-19131-11	PZ-53D 30 FT BGS	Step 6	Solid	6010B SEP	40277
140-19131-12	PZ-53D 36 FT BGS	Step 5	Solid	6010B SEP	40276
140-19131-12	PZ-53D 36 FT BGS	Step 6	Solid	6010B SEP	40277
140-19131-12	PZ-53D 36 FT BGS	Step 6	Solid	6010B SEP	40277
MB 140-40215/15-B ^5	Method Blank	Step 5	Solid	6010B SEP	40276
MB 140-40277/15-A	Method Blank	Step 6	Solid	6010B SEP	40277
LCS 140-40215/16-B ^5	Lab Control Sample	Step 5	Solid	6010B SEP	40276
LCS 140-40277/16-A	Lab Control Sample	Step 6	Solid	6010B SEP	40277
LCSD 140-40215/17-B ^5	Lab Control Sample Dup	Step 5	Solid	6010B SEP	40276
LCSD 140-40277/17-A	Lab Control Sample Dup	Step 6	Solid	6010B SEP	40277

Analysis Batch: 40487

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-19131-1	BRGWA-2S(2) 39 FT BGS	Step 7	Solid	6010B SEP	40294
140-19131-1	BRGWA-2S(2) 39 FT BGS	Step 7	Solid	6010B SEP	40294
140-19131-1	BRGWA-2S(2) 39 FT BGS	Step 7	Solid	6010B SEP	40294
140-19131-2	BRGWA-2S(2) 43 FT BGS	Step 7	Solid	6010B SEP	40294
140-19131-2	BRGWA-2S(2) 43 FT BGS	Step 7	Solid	6010B SEP	40294
140-19131-2	BRGWA-2S(2) 43 FT BGS	Step 7	Solid	6010B SEP	40294
140-19131-3	BRGWA-5S(2) 38 FT BGS	Step 7	Solid	6010B SEP	40294
140-19131-3	BRGWA-5S(2) 38 FT BGS	Step 7	Solid	6010B SEP	40294
140-19131-3	BRGWA-5S(2) 38 FT BGS	Step 7	Solid	6010B SEP	40294
140-19131-4	BRGWA-5S(2) 32 FT BGS	Step 7	Solid	6010B SEP	40294
140-19131-4	BRGWA-5S(2) 32 FT BGS	Step 7	Solid	6010B SEP	40294
140-19131-4	BRGWA-5S(2) 32 FT BGS	Step 7	Solid	6010B SEP	40294
140-19131-5	BRGWA-6S(2) 42 FT BGS	Step 7	Solid	6010B SEP	40294
140-19131-5	BRGWA-6S(2) 42 FT BGS	Step 7	Solid	6010B SEP	40294
140-19131-5	BRGWA-6S(2) 42 FT BGS	Step 7	Solid	6010B SEP	40294
140-19131-6	BRGWA-6S(2) 48 FT BGS	Step 7	Solid	6010B SEP	40294
140-19131-6	BRGWA-6S(2) 48 FT BGS	Step 7	Solid	6010B SEP	40294
140-19131-6	BRGWA-6S(2) 48 FT BGS	Step 7	Solid	6010B SEP	40294
140-19131-7	PZ-52D 18 FT BGS	Step 7	Solid	6010B SEP	40294
140-19131-7	PZ-52D 18 FT BGS	Step 7	Solid	6010B SEP	40294
140-19131-8	PZ-52D 24-25 FT BGS	Step 7	Solid	6010B SEP	40294
140-19131-8	PZ-52D 24-25 FT BGS	Step 7	Solid	6010B SEP	40294
140-19131-9	BRGWC-50(2) 59 FT BGS	Step 7	Solid	6010B SEP	40294
140-19131-9	BRGWC-50(2) 59 FT BGS	Step 7	Solid	6010B SEP	40294
140-19131-10	BRGWC-50(2) 63-63.5 FT BGS	Step 7	Solid	6010B SEP	40294
140-19131-10	BRGWC-50(2) 63-63.5 FT BGS	Step 7	Solid	6010B SEP	40294
140-19131-10	BRGWC-50(2) 63-63.5 FT BGS	Step 7	Solid	6010B SEP	40294
140-19131-11	PZ-53D 30 FT BGS	Step 7	Solid	6010B SEP	40294
140-19131-11	PZ-53D 30 FT BGS	Step 7	Solid	6010B SEP	40294
140-19131-12	PZ-53D 36 FT BGS	Step 7	Solid	6010B SEP	40294
140-19131-12	PZ-53D 36 FT BGS	Step 7	Solid	6010B SEP	40294

Metals (Continued)

Analysis Batch: 40487 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-19131-12	PZ-53D 36 FT BGS	Step 7	Solid	6010B SEP	40294
MB 140-40294/15-A	Method Blank	Step 7	Solid	6010B SEP	40294
LCS 140-40294/16-A	Lab Control Sample	Step 7	Solid	6010B SEP	40294
LCSD 140-40294/17-A	Lab Control Sample Dup	Step 7	Solid	6010B SEP	40294

Analysis Batch: 40512

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-19131-1	BRGWA-2S(2) 39 FT BGS	Total/NA	Solid	6010B	39918
140-19131-1	BRGWA-2S(2) 39 FT BGS	Total/NA	Solid	6010B	39918
140-19131-1	BRGWA-2S(2) 39 FT BGS	Total/NA	Solid	6010B	39918
140-19131-1	BRGWA-2S(2) 39 FT BGS	Total/NA	Solid	6010B	39918
140-19131-2	BRGWA-2S(2) 43 FT BGS	Total/NA	Solid	6010B	39918
140-19131-2	BRGWA-2S(2) 43 FT BGS	Total/NA	Solid	6010B	39918
140-19131-2	BRGWA-2S(2) 43 FT BGS	Total/NA	Solid	6010B	39918
140-19131-3	BRGWA-5S(2) 38 FT BGS	Total/NA	Solid	6010B	39918
140-19131-3	BRGWA-5S(2) 38 FT BGS	Total/NA	Solid	6010B	39918
140-19131-3	BRGWA-5S(2) 38 FT BGS	Total/NA	Solid	6010B	39918
140-19131-4	BRGWA-5S(2) 32 FT BGS	Total/NA	Solid	6010B	39918
140-19131-4	BRGWA-5S(2) 32 FT BGS	Total/NA	Solid	6010B	39918
140-19131-4	BRGWA-5S(2) 32 FT BGS	Total/NA	Solid	6010B	39918
140-19131-5	BRGWA-6S(2) 42 FT BGS	Total/NA	Solid	6010B	39918
140-19131-5	BRGWA-6S(2) 42 FT BGS	Total/NA	Solid	6010B	39918
140-19131-6	BRGWA-6S(2) 48 FT BGS	Total/NA	Solid	6010B	39918
140-19131-6	BRGWA-6S(2) 48 FT BGS	Total/NA	Solid	6010B	39918
140-19131-7	PZ-52D 18 FT BGS	Total/NA	Solid	6010B	39918
140-19131-7	PZ-52D 18 FT BGS	Total/NA	Solid	6010B	39918
140-19131-7	PZ-52D 18 FT BGS	Total/NA	Solid	6010B	39918
140-19131-8	PZ-52D 24-25 FT BGS	Total/NA	Solid	6010B	39918
140-19131-8	PZ-52D 24-25 FT BGS	Total/NA	Solid	6010B	39918
140-19131-8	PZ-52D 24-25 FT BGS	Total/NA	Solid	6010B	39918
140-19131-9	BRGWC-50(2) 59 FT BGS	Total/NA	Solid	6010B	39918
140-19131-9	BRGWC-50(2) 59 FT BGS	Total/NA	Solid	6010B	39918
140-19131-9	BRGWC-50(2) 59 FT BGS	Total/NA	Solid	6010B	39918
140-19131-10	BRGWC-50(2) 63-63.5 FT BGS	Total/NA	Solid	6010B	39918
140-19131-10	BRGWC-50(2) 63-63.5 FT BGS	Total/NA	Solid	6010B	39918
140-19131-11	PZ-53D 30 FT BGS	Total/NA	Solid	6010B	39918
140-19131-11	PZ-53D 30 FT BGS	Total/NA	Solid	6010B	39918
140-19131-11	PZ-53D 30 FT BGS	Total/NA	Solid	6010B	39918
140-19131-12	PZ-53D 36 FT BGS	Total/NA	Solid	6010B	39918
140-19131-12	PZ-53D 36 FT BGS	Total/NA	Solid	6010B	39918
140-19131-12	PZ-53D 36 FT BGS	Total/NA	Solid	6010B	39918
MB 140-39918/15-A	Method Blank	Total/NA	Solid	6010B	39918
LCS 140-39918/16-A	Lab Control Sample	Total/NA	Solid	6010B	39918
LCSD 140-39918/17-A	Lab Control Sample Dup	Total/NA	Solid	6010B	39918

Analysis Batch: 40572

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-19131-1	BRGWA-2S(2) 39 FT BGS	Sum of Steps 1-7	Solid	6010B SEP	
140-19131-2	BRGWA-2S(2) 43 FT BGS	Sum of Steps 1-7	Solid	6010B SEP	
140-19131-3	BRGWA-5S(2) 38 FT BGS	Sum of Steps 1-7	Solid	6010B SEP	
140-19131-4	BRGWA-5S(2) 32 FT BGS	Sum of Steps 1-7	Solid	6010B SEP	

Metals (Continued)

Analysis Batch: 40572 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-19131-5	BRGWA-6S(2) 42 FT BGS	Sum of Steps 1-7	Solid	6010B SEP	
140-19131-6	BRGWA-6S(2) 48 FT BGS	Sum of Steps 1-7	Solid	6010B SEP	
140-19131-7	PZ-52D 18 FT BGS	Sum of Steps 1-7	Solid	6010B SEP	
140-19131-8	PZ-52D 24-25 FT BGS	Sum of Steps 1-7	Solid	6010B SEP	
140-19131-9	BRGWC-50(2) 59 FT BGS	Sum of Steps 1-7	Solid	6010B SEP	
140-19131-10	BRGWC-50(2) 63-63.5 FT BGS	Sum of Steps 1-7	Solid	6010B SEP	
140-19131-11	PZ-53D 30 FT BGS	Sum of Steps 1-7	Solid	6010B SEP	
140-19131-12	PZ-53D 36 FT BGS	Sum of Steps 1-7	Solid	6010B SEP	

General Chemistry

Analysis Batch: 40042

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-19131-1	BRGWA-2S(2) 39 FT BGS	Total/NA	Solid	Moisture	
140-19131-2	BRGWA-2S(2) 43 FT BGS	Total/NA	Solid	Moisture	
140-19131-3	BRGWA-5S(2) 38 FT BGS	Total/NA	Solid	Moisture	
140-19131-4	BRGWA-5S(2) 32 FT BGS	Total/NA	Solid	Moisture	
140-19131-5	BRGWA-6S(2) 42 FT BGS	Total/NA	Solid	Moisture	
140-19131-6	BRGWA-6S(2) 48 FT BGS	Total/NA	Solid	Moisture	
140-19131-7	PZ-52D 18 FT BGS	Total/NA	Solid	Moisture	
140-19131-8	PZ-52D 24-25 FT BGS	Total/NA	Solid	Moisture	
140-19131-9	BRGWC-50(2) 59 FT BGS	Total/NA	Solid	Moisture	
140-19131-10	BRGWC-50(2) 63-63.5 FT BGS	Total/NA	Solid	Moisture	
140-19131-11	PZ-53D 30 FT BGS	Total/NA	Solid	Moisture	
140-19131-12	PZ-53D 36 FT BGS	Total/NA	Solid	Moisture	
140-19131-1 DU	BRGWA-2S(2) 39 FT BGS	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-19131-1

Client Sample ID: BRGWA-2S(2) 39 FT BGS
Date Collected: 05/13/20 14:30
Date Received: 05/20/20 09:45

Lab Sample ID: 140-19131-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Sum of Steps 1-7	Analysis	6010B SEP		1			40572	06/25/20 11:53	DKW	TAL KNX
	Instrument ID: NOEQUIP									
Total/NA	Analysis	Moisture		1			40042	06/02/20 08:02	BKD	TAL KNX
	Instrument ID: NOEQUIP									

Client Sample ID: BRGWA-2S(2) 39 FT BGS
Date Collected: 05/13/20 14:30
Date Received: 05/20/20 09:45

Lab Sample ID: 140-19131-1
Matrix: Solid
Percent Solids: 71.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Total			1.000 g	50 mL	39918	05/29/20 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		1			40512	06/23/20 12:43	KNC	TAL KNX
	Instrument ID: DUO									
Total/NA	Prep	Total			1.000 g	50 mL	39918	05/29/20 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		10			40512	06/23/20 14:27	KNC	TAL KNX
	Instrument ID: DUO									
Total/NA	Prep	Total			1.000 g	50 mL	39918	05/29/20 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		2			40512	06/23/20 16:04	KNC	TAL KNX
	Instrument ID: DUO									
Total/NA	Prep	Total			1.000 g	50 mL	39918	05/29/20 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		20			40512	06/23/20 17:24	KNC	TAL KNX
	Instrument ID: DUO									
Step 1	SEP	Exchangeable			5.000 g	25 mL	40011	06/01/20 08:01	KNC	TAL KNX
Step 1	Prep	3010A			5 mL	50 mL	40023	06/02/20 08:00	KNC	TAL KNX
Step 1	Analysis	6010B SEP		4			40383	06/16/20 12:21	KNC	TAL KNX
	Instrument ID: DUO									
Step 2	SEP	Carbonate			5.000 g	25 mL	40024	06/02/20 08:00	KNC	TAL KNX
Step 2	Prep	3010A			5 mL	50 mL	40062	06/03/20 08:00	KNC	TAL KNX
Step 2	Analysis	6010B SEP		3			40383	06/16/20 14:15	KNC	TAL KNX
	Instrument ID: DUO									
Step 3	SEP	Non-Crystalline			5.000 g	25 mL	40065	06/03/20 08:00	KNC	TAL KNX
Step 3	Prep	3010A			5 mL	50 mL	40096	06/08/20 08:00	KNC	TAL KNX
Step 3	Analysis	6010B SEP		1			40441	06/18/20 12:10	KNC	TAL KNX
	Instrument ID: DUO									
Step 4	SEP	Metal Hydroxide			5.000 g	25 mL	40100	06/08/20 08:00	KNC	TAL KNX
Step 4	Prep	3010A			5 mL	50 mL	40214	06/10/20 08:00	KNC	TAL KNX
Step 4	Analysis	6010B SEP		1			40441	06/18/20 14:04	KNC	TAL KNX
	Instrument ID: DUO									
Step 5	SEP	Organic-Bound			5.000 g	75 mL	40215	06/10/20 08:00	KNC	TAL KNX
Step 5	Prep	3010A			5 mL	50 mL	40276	06/12/20 08:00	KNC	TAL KNX
Step 5	Analysis	6010B SEP		5			40453	06/19/20 11:43	KNC	TAL KNX
	Instrument ID: DUO									
Step 6	SEP	Acid/Sulfide			5.000 g	250 mL	40277	06/12/20 08:00	KNC	TAL KNX
Step 6	Analysis	6010B SEP		1			40453	06/19/20 13:38	KNC	TAL KNX
	Instrument ID: DUO									

Lab Chronicle

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-19131-1

Client Sample ID: BRGWA-2S(2) 39 FT BGS

Lab Sample ID: 140-19131-1
Date Collected: 05/13/20 14:30
Matrix: Solid
Date Received: 05/20/20 09:45
Percent Solids: 71.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 6	SEP	Acid/Sulfide			5.000 g	250 mL	40277	06/12/20 08:00	KNC	TAL KNX
Step 6	Analysis	6010B SEP		2			40453	06/19/20 16:54	KNC	TAL KNX
	Instrument ID: DUO									
Step 7	Prep	Residual			1.000 g	50 mL	40294	06/15/20 08:00	KNC	TAL KNX
Step 7	Analysis	6010B SEP		1			40487	06/22/20 13:18	KNC	TAL KNX
	Instrument ID: DUO									
Step 7	Prep	Residual			1.000 g	50 mL	40294	06/15/20 08:00	KNC	TAL KNX
Step 7	Analysis	6010B SEP		10			40487	06/22/20 15:00	KNC	TAL KNX
	Instrument ID: DUO									
Step 7	Prep	Residual			1.000 g	50 mL	40294	06/15/20 08:00	KNC	TAL KNX
Step 7	Analysis	6010B SEP		5			40487	06/22/20 16:27	KNC	TAL KNX
	Instrument ID: DUO									

Client Sample ID: BRGWA-2S(2) 43 FT BGS

Lab Sample ID: 140-19131-2
Date Collected: 05/13/20 14:40
Matrix: Solid
Date Received: 05/20/20 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Sum of Steps 1-7	Analysis	6010B SEP		1			40572	06/25/20 11:53	DKW	TAL KNX
	Instrument ID: NOEQUIP									
Total/NA	Analysis	Moisture		1			40042	06/02/20 08:02	BKD	TAL KNX
	Instrument ID: NOEQUIP									

Client Sample ID: BRGWA-2S(2) 43 FT BGS

Lab Sample ID: 140-19131-2
Date Collected: 05/13/20 14:40
Matrix: Solid
Date Received: 05/20/20 09:45
Percent Solids: 75.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Total			1.000 g	50 mL	39918	05/29/20 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		1			40512	06/23/20 12:49	KNC	TAL KNX
	Instrument ID: DUO									
Total/NA	Prep	Total			1.000 g	50 mL	39918	05/29/20 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		10			40512	06/23/20 14:32	KNC	TAL KNX
	Instrument ID: DUO									
Total/NA	Prep	Total			1.000 g	50 mL	39918	05/29/20 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		20			40512	06/23/20 17:29	KNC	TAL KNX
	Instrument ID: DUO									
Step 1	SEP	Exchangeable			5.000 g	25 mL	40011	06/01/20 08:01	KNC	TAL KNX
Step 1	Prep	3010A			5 mL	50 mL	40023	06/02/20 08:00	KNC	TAL KNX
Step 1	Analysis	6010B SEP		4			40383	06/16/20 12:26	KNC	TAL KNX
	Instrument ID: DUO									
Step 2	SEP	Carbonate			5.000 g	25 mL	40024	06/02/20 08:00	KNC	TAL KNX
Step 2	Prep	3010A			5 mL	50 mL	40062	06/03/20 08:00	KNC	TAL KNX
Step 2	Analysis	6010B SEP		3			40383	06/16/20 14:20	KNC	TAL KNX
	Instrument ID: DUO									

Client Sample ID: BRGWA-2S(2) 43 FT BGS

Lab Sample ID: 140-19131-2

Date Collected: 05/13/20 14:40

Matrix: Solid

Date Received: 05/20/20 09:45

Percent Solids: 75.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 3	SEP	Non-Crystalline			5.000 g	25 mL	40065	06/03/20 08:00	KNC	TAL KNX
Step 3	Prep	3010A			5 mL	50 mL	40096	06/08/20 08:00	KNC	TAL KNX
Step 3	Analysis	6010B SEP		1			40441	06/18/20 12:15	KNC	TAL KNX
	Instrument ID: DUO									
Step 4	SEP	Metal Hydroxide			5.000 g	25 mL	40100	06/08/20 08:00	KNC	TAL KNX
Step 4	Prep	3010A			5 mL	50 mL	40214	06/10/20 08:00	KNC	TAL KNX
Step 4	Analysis	6010B SEP		1			40441	06/18/20 14:10	KNC	TAL KNX
	Instrument ID: DUO									
Step 5	SEP	Organic-Bound			5.000 g	75 mL	40215	06/10/20 08:00	KNC	TAL KNX
Step 5	Prep	3010A			5 mL	50 mL	40276	06/12/20 08:00	KNC	TAL KNX
Step 5	Analysis	6010B SEP		5			40453	06/19/20 11:48	KNC	TAL KNX
	Instrument ID: DUO									
Step 6	SEP	Acid/Sulfide			5.000 g	250 mL	40277	06/12/20 08:00	KNC	TAL KNX
Step 6	Analysis	6010B SEP		1			40453	06/19/20 13:43	KNC	TAL KNX
	Instrument ID: DUO									
Step 7	Prep	Residual			1.000 g	50 mL	40294	06/15/20 08:00	KNC	TAL KNX
Step 7	Analysis	6010B SEP		1			40487	06/22/20 13:23	KNC	TAL KNX
	Instrument ID: DUO									
Step 7	Prep	Residual			1.000 g	50 mL	40294	06/15/20 08:00	KNC	TAL KNX
Step 7	Analysis	6010B SEP		10			40487	06/22/20 15:05	KNC	TAL KNX
	Instrument ID: DUO									
Step 7	Prep	Residual			1.000 g	50 mL	40294	06/15/20 08:00	KNC	TAL KNX
Step 7	Analysis	6010B SEP		5			40487	06/22/20 16:32	KNC	TAL KNX
	Instrument ID: DUO									

Client Sample ID: BRGWA-5S(2) 38 FT BGS

Lab Sample ID: 140-19131-3

Date Collected: 05/14/20 07:40

Matrix: Solid

Date Received: 05/20/20 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Sum of Steps 1-7	Analysis	6010B SEP		1			40572	06/25/20 11:53	DKW	TAL KNX
	Instrument ID: NOEQUIP									
Total/NA	Analysis	Moisture		1			40042	06/02/20 08:02	BKD	TAL KNX
	Instrument ID: NOEQUIP									

Client Sample ID: BRGWA-5S(2) 38 FT BGS

Lab Sample ID: 140-19131-3

Date Collected: 05/14/20 07:40

Matrix: Solid

Date Received: 05/20/20 09:45

Percent Solids: 84.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Total			1.000 g	50 mL	39918	05/29/20 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		1			40512	06/23/20 12:54	KNC	TAL KNX
	Instrument ID: DUO									
Total/NA	Prep	Total			1.000 g	50 mL	39918	05/29/20 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		10			40512	06/23/20 14:37	KNC	TAL KNX
	Instrument ID: DUO									

Client Sample ID: BRGWA-5S(2) 38 FT BGS

Lab Sample ID: 140-19131-3

Date Collected: 05/14/20 07:40

Matrix: Solid

Date Received: 05/20/20 09:45

Percent Solids: 84.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Total			1.000 g	50 mL	39918	05/29/20 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		2			40512	06/23/20 16:15	KNC	TAL KNX
	Instrument ID: DUO									
Step 1	SEP	Exchangeable			5.000 g	25 mL	40011	06/01/20 08:01	KNC	TAL KNX
Step 1	Prep	3010A			5 mL	50 mL	40023	06/02/20 08:00	KNC	TAL KNX
Step 1	Analysis	6010B SEP		4			40383	06/16/20 12:31	KNC	TAL KNX
	Instrument ID: DUO									
Step 2	SEP	Carbonate			5.000 g	25 mL	40024	06/02/20 08:00	KNC	TAL KNX
Step 2	Prep	3010A			5 mL	50 mL	40062	06/03/20 08:00	KNC	TAL KNX
Step 2	Analysis	6010B SEP		3			40383	06/16/20 14:25	KNC	TAL KNX
	Instrument ID: DUO									
Step 3	SEP	Non-Crystalline			5.000 g	25 mL	40065	06/03/20 08:00	KNC	TAL KNX
Step 3	Prep	3010A			5 mL	50 mL	40096	06/08/20 08:00	KNC	TAL KNX
Step 3	Analysis	6010B SEP		1			40441	06/18/20 12:20	KNC	TAL KNX
	Instrument ID: DUO									
Step 4	SEP	Metal Hydroxide			5.000 g	25 mL	40100	06/08/20 08:00	KNC	TAL KNX
Step 4	Prep	3010A			5 mL	50 mL	40214	06/10/20 08:00	KNC	TAL KNX
Step 4	Analysis	6010B SEP		1			40441	06/18/20 14:15	KNC	TAL KNX
	Instrument ID: DUO									
Step 5	SEP	Organic-Bound			5.000 g	75 mL	40215	06/10/20 08:00	KNC	TAL KNX
Step 5	Prep	3010A			5 mL	50 mL	40276	06/12/20 08:00	KNC	TAL KNX
Step 5	Analysis	6010B SEP		5			40453	06/19/20 11:53	KNC	TAL KNX
	Instrument ID: DUO									
Step 6	SEP	Acid/Sulfide			5.000 g	250 mL	40277	06/12/20 08:00	KNC	TAL KNX
Step 6	Analysis	6010B SEP		1			40453	06/19/20 13:48	KNC	TAL KNX
	Instrument ID: DUO									
Step 7	Prep	Residual			1.000 g	50 mL	40294	06/15/20 08:00	KNC	TAL KNX
Step 7	Analysis	6010B SEP		1			40487	06/22/20 13:29	KNC	TAL KNX
	Instrument ID: DUO									
Step 7	Prep	Residual			1.000 g	50 mL	40294	06/15/20 08:00	KNC	TAL KNX
Step 7	Analysis	6010B SEP		10			40487	06/22/20 15:10	KNC	TAL KNX
	Instrument ID: DUO									
Step 7	Prep	Residual			1.000 g	50 mL	40294	06/15/20 08:00	KNC	TAL KNX
Step 7	Analysis	6010B SEP		5			40487	06/22/20 16:37	KNC	TAL KNX
	Instrument ID: DUO									

Client Sample ID: BRGWA-5S(2) 32 FT BGS

Lab Sample ID: 140-19131-4

Date Collected: 05/14/20 07:50

Matrix: Solid

Date Received: 05/20/20 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Sum of Steps 1-7	Analysis	6010B SEP		1			40572	06/25/20 11:53	DKW	TAL KNX
	Instrument ID: NOEQUIP									
Total/NA	Analysis	Moisture		1			40042	06/02/20 08:02	BKD	TAL KNX
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-19131-1

Client Sample ID: BRGWA-5S(2) 32 FT BGS

Date Collected: 05/14/20 07:50
Date Received: 05/20/20 09:45

Lab Sample ID: 140-19131-4

Matrix: Solid
Percent Solids: 82.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Total			1.000 g	50 mL	39918	05/29/20 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		1			40512	06/23/20 13:16	KNC	TAL KNX
	Instrument ID: DUO									
Total/NA	Prep	Total			1.000 g	50 mL	39918	05/29/20 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		10			40512	06/23/20 14:41	KNC	TAL KNX
	Instrument ID: DUO									
Total/NA	Prep	Total			1.000 g	50 mL	39918	05/29/20 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		2			40512	06/23/20 16:21	KNC	TAL KNX
	Instrument ID: DUO									
Step 1	SEP	Exchangeable			5.000 g	25 mL	40011	06/01/20 08:01	KNC	TAL KNX
Step 1	Prep	3010A			5 mL	50 mL	40023	06/02/20 08:00	KNC	TAL KNX
Step 1	Analysis	6010B SEP		4			40383	06/16/20 12:36	KNC	TAL KNX
	Instrument ID: DUO									
Step 2	SEP	Carbonate			5.000 g	25 mL	40024	06/02/20 08:00	KNC	TAL KNX
Step 2	Prep	3010A			5 mL	50 mL	40062	06/03/20 08:00	KNC	TAL KNX
Step 2	Analysis	6010B SEP		3			40383	06/16/20 14:31	KNC	TAL KNX
	Instrument ID: DUO									
Step 3	SEP	Non-Crystalline			5.000 g	25 mL	40065	06/03/20 08:00	KNC	TAL KNX
Step 3	Prep	3010A			5 mL	50 mL	40096	06/08/20 08:00	KNC	TAL KNX
Step 3	Analysis	6010B SEP		1			40441	06/18/20 12:26	KNC	TAL KNX
	Instrument ID: DUO									
Step 4	SEP	Metal Hydroxide			5.000 g	25 mL	40100	06/08/20 08:00	KNC	TAL KNX
Step 4	Prep	3010A			5 mL	50 mL	40214	06/10/20 08:00	KNC	TAL KNX
Step 4	Analysis	6010B SEP		1			40441	06/18/20 14:20	KNC	TAL KNX
	Instrument ID: DUO									
Step 5	SEP	Organic-Bound			5.000 g	75 mL	40215	06/10/20 08:00	KNC	TAL KNX
Step 5	Prep	3010A			5 mL	50 mL	40276	06/12/20 08:00	KNC	TAL KNX
Step 5	Analysis	6010B SEP		5			40453	06/19/20 11:58	KNC	TAL KNX
	Instrument ID: DUO									
Step 6	SEP	Acid/Sulfide			5.000 g	250 mL	40277	06/12/20 08:00	KNC	TAL KNX
Step 6	Analysis	6010B SEP		1			40453	06/19/20 13:53	KNC	TAL KNX
	Instrument ID: DUO									
Step 7	Prep	Residual			1.000 g	50 mL	40294	06/15/20 08:00	KNC	TAL KNX
Step 7	Analysis	6010B SEP		1			40487	06/22/20 13:50	KNC	TAL KNX
	Instrument ID: DUO									
Step 7	Prep	Residual			1.000 g	50 mL	40294	06/15/20 08:00	KNC	TAL KNX
Step 7	Analysis	6010B SEP		10			40487	06/22/20 15:15	KNC	TAL KNX
	Instrument ID: DUO									
Step 7	Prep	Residual			1.000 g	50 mL	40294	06/15/20 08:00	KNC	TAL KNX
Step 7	Analysis	6010B SEP		5			40487	06/22/20 16:42	KNC	TAL KNX
	Instrument ID: DUO									

Client Sample ID: BRGWA-6S(2) 42 FT BGS

Lab Sample ID: 140-19131-5

Date Collected: 05/14/20 12:05

Matrix: Solid

Date Received: 05/20/20 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Sum of Steps 1-7	Analysis	6010B SEP		1			40572	06/25/20 11:53	DKW	TAL KNX
	Instrument ID: NOEQUIP									
Total/NA	Analysis	Moisture		1			40042	06/02/20 08:02	BKD	TAL KNX
	Instrument ID: NOEQUIP									

Client Sample ID: BRGWA-6S(2) 42 FT BGS

Lab Sample ID: 140-19131-5

Date Collected: 05/14/20 12:05

Matrix: Solid

Date Received: 05/20/20 09:45

Percent Solids: 69.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Total			1.000 g	50 mL	39918	05/29/20 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		10			40512	06/23/20 14:46	KNC	TAL KNX
	Instrument ID: DUO									
Total/NA	Prep	Total			1.000 g	50 mL	39918	05/29/20 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		2			40512	06/23/20 16:26	KNC	TAL KNX
	Instrument ID: DUO									
Step 1	SEP	Exchangeable			5.000 g	25 mL	40011	06/01/20 08:01	KNC	TAL KNX
Step 1	Prep	3010A			5 mL	50 mL	40023	06/02/20 08:00	KNC	TAL KNX
Step 1	Analysis	6010B SEP		4			40383	06/16/20 12:57	KNC	TAL KNX
	Instrument ID: DUO									
Step 2	SEP	Carbonate			5.000 g	25 mL	40024	06/02/20 08:00	KNC	TAL KNX
Step 2	Prep	3010A			5 mL	50 mL	40062	06/03/20 08:00	KNC	TAL KNX
Step 2	Analysis	6010B SEP		3			40383	06/16/20 14:52	KNC	TAL KNX
	Instrument ID: DUO									
Step 3	SEP	Non-Crystalline			5.000 g	25 mL	40065	06/03/20 08:00	KNC	TAL KNX
Step 3	Prep	3010A			5 mL	50 mL	40096	06/08/20 08:00	KNC	TAL KNX
Step 3	Analysis	6010B SEP		1			40441	06/18/20 12:46	KNC	TAL KNX
	Instrument ID: DUO									
Step 4	SEP	Metal Hydroxide			5.000 g	25 mL	40100	06/08/20 08:00	KNC	TAL KNX
Step 4	Prep	3010A			5 mL	50 mL	40214	06/10/20 08:00	KNC	TAL KNX
Step 4	Analysis	6010B SEP		1			40441	06/18/20 14:40	KNC	TAL KNX
	Instrument ID: DUO									
Step 5	SEP	Organic-Bound			5.000 g	75 mL	40215	06/10/20 08:00	KNC	TAL KNX
Step 5	Prep	3010A			5 mL	50 mL	40276	06/12/20 08:00	KNC	TAL KNX
Step 5	Analysis	6010B SEP		5			40453	06/19/20 12:19	KNC	TAL KNX
	Instrument ID: DUO									
Step 6	SEP	Acid/Sulfide			5.000 g	250 mL	40277	06/12/20 08:00	KNC	TAL KNX
Step 6	Analysis	6010B SEP		1			40453	06/19/20 16:12	KNC	TAL KNX
	Instrument ID: DUO									
Step 7	Prep	Residual			1.000 g	50 mL	40294	06/15/20 08:00	KNC	TAL KNX
Step 7	Analysis	6010B SEP		1			40487	06/22/20 13:56	KNC	TAL KNX
	Instrument ID: DUO									
Step 7	Prep	Residual			1.000 g	50 mL	40294	06/15/20 08:00	KNC	TAL KNX
Step 7	Analysis	6010B SEP		10			40487	06/22/20 15:20	KNC	TAL KNX
	Instrument ID: DUO									

Client Sample ID: BRGWA-6S(2) 42 FT BGS

Lab Sample ID: 140-19131-5
Date Collected: 05/14/20 12:05
Matrix: Solid
Date Received: 05/20/20 09:45
Percent Solids: 69.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 7	Prep	Residual			1.000 g	50 mL	40294	06/15/20 08:00	KNC	TAL KNX
Step 7	Analysis	6010B SEP		5			40487	06/22/20 16:47	KNC	TAL KNX
	Instrument ID: DUO									

Client Sample ID: BRGWA-6S(2) 48 FT BGS

Lab Sample ID: 140-19131-6
Date Collected: 05/14/20 12:15
Matrix: Solid
Date Received: 05/20/20 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Sum of Steps 1-7	Analysis	6010B SEP		1			40572	06/25/20 11:53	DKW	TAL KNX
	Instrument ID: NOEQUIP									
Total/NA	Analysis	Moisture		1			40042	06/02/20 08:02	BKD	TAL KNX
	Instrument ID: NOEQUIP									

Client Sample ID: BRGWA-6S(2) 48 FT BGS

Lab Sample ID: 140-19131-6
Date Collected: 05/14/20 12:15
Matrix: Solid
Date Received: 05/20/20 09:45
Percent Solids: 69.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Total			1.000 g	50 mL	39918	05/29/20 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		1			40512	06/23/20 13:27	KNC	TAL KNX
	Instrument ID: DUO									
Total/NA	Prep	Total			1.000 g	50 mL	39918	05/29/20 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		10			40512	06/23/20 14:51	KNC	TAL KNX
	Instrument ID: DUO									
Step 1	SEP	Exchangeable			5.000 g	25 mL	40011	06/01/20 08:01	KNC	TAL KNX
Step 1	Prep	3010A			5 mL	50 mL	40023	06/02/20 08:00	KNC	TAL KNX
Step 1	Analysis	6010B SEP		4			40383	06/16/20 13:02	KNC	TAL KNX
	Instrument ID: DUO									
Step 2	SEP	Carbonate			5.000 g	25 mL	40024	06/02/20 08:00	KNC	TAL KNX
Step 2	Prep	3010A			5 mL	50 mL	40062	06/03/20 08:00	KNC	TAL KNX
Step 2	Analysis	6010B SEP		3			40383	06/16/20 14:57	KNC	TAL KNX
	Instrument ID: DUO									
Step 3	SEP	Non-Crystalline			5.000 g	25 mL	40065	06/03/20 08:00	KNC	TAL KNX
Step 3	Prep	3010A			5 mL	50 mL	40096	06/08/20 08:00	KNC	TAL KNX
Step 3	Analysis	6010B SEP		1			40441	06/18/20 12:51	KNC	TAL KNX
	Instrument ID: DUO									
Step 4	SEP	Metal Hydroxide			5.000 g	25 mL	40100	06/08/20 08:00	KNC	TAL KNX
Step 4	Prep	3010A			5 mL	50 mL	40214	06/10/20 08:00	KNC	TAL KNX
Step 4	Analysis	6010B SEP		1			40441	06/18/20 14:45	KNC	TAL KNX
	Instrument ID: DUO									
Step 5	SEP	Organic-Bound			5.000 g	75 mL	40215	06/10/20 08:00	KNC	TAL KNX
Step 5	Prep	3010A			5 mL	50 mL	40276	06/12/20 08:00	KNC	TAL KNX
Step 5	Analysis	6010B SEP		5			40453	06/19/20 12:25	KNC	TAL KNX
	Instrument ID: DUO									

Client Sample ID: BRGWA-6S(2) 48 FT BGS

Lab Sample ID: 140-19131-6
Date Collected: 05/14/20 12:15
Matrix: Solid
Date Received: 05/20/20 09:45
Percent Solids: 69.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 6	SEP	Acid/Sulfide			5.000 g	250 mL	40277	06/12/20 08:00	KNC	TAL KNX
Step 6	Analysis	6010B SEP		1			40453	06/19/20 16:17	KNC	TAL KNX
	Instrument ID: DUO									
Step 7	Prep	Residual			1.000 g	50 mL	40294	06/15/20 08:00	KNC	TAL KNX
Step 7	Analysis	6010B SEP		1			40487	06/22/20 14:01	KNC	TAL KNX
	Instrument ID: DUO									
Step 7	Prep	Residual			1.000 g	50 mL	40294	06/15/20 08:00	KNC	TAL KNX
Step 7	Analysis	6010B SEP		10			40487	06/22/20 15:25	KNC	TAL KNX
	Instrument ID: DUO									
Step 7	Prep	Residual			1.000 g	50 mL	40294	06/15/20 08:00	KNC	TAL KNX
Step 7	Analysis	6010B SEP		5			40487	06/22/20 16:52	KNC	TAL KNX
	Instrument ID: DUO									

Client Sample ID: PZ-52D 18 FT BGS

Lab Sample ID: 140-19131-7
Date Collected: 05/14/20 14:40
Matrix: Solid
Date Received: 05/20/20 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Sum of Steps 1-7	Analysis	6010B SEP		1			40572	06/25/20 11:53	DKW	TAL KNX
	Instrument ID: NOEQUIP									
Total/NA	Analysis	Moisture		1			40042	06/02/20 08:02	BKD	TAL KNX
	Instrument ID: NOEQUIP									

Client Sample ID: PZ-52D 18 FT BGS

Lab Sample ID: 140-19131-7
Date Collected: 05/14/20 14:40
Matrix: Solid
Date Received: 05/20/20 09:45
Percent Solids: 67.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Total			1.000 g	50 mL	39918	05/29/20 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		1			40512	06/23/20 13:33	KNC	TAL KNX
	Instrument ID: DUO									
Total/NA	Prep	Total			1.000 g	50 mL	39918	05/29/20 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		10			40512	06/23/20 14:56	KNC	TAL KNX
	Instrument ID: DUO									
Total/NA	Prep	Total			1.000 g	50 mL	39918	05/29/20 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		2			40512	06/23/20 16:37	KNC	TAL KNX
	Instrument ID: DUO									
Step 1	SEP	Exchangeable			5.000 g	25 mL	40011	06/01/20 08:01	KNC	TAL KNX
Step 1	Prep	3010A			5 mL	50 mL	40023	06/02/20 08:00	KNC	TAL KNX
Step 1	Analysis	6010B SEP		4			40383	06/16/20 13:07	KNC	TAL KNX
	Instrument ID: DUO									
Step 2	SEP	Carbonate			5.000 g	25 mL	40024	06/02/20 08:00	KNC	TAL KNX
Step 2	Prep	3010A			5 mL	50 mL	40062	06/03/20 08:00	KNC	TAL KNX
Step 2	Analysis	6010B SEP		3			40383	06/16/20 15:02	KNC	TAL KNX
	Instrument ID: DUO									

Client Sample ID: PZ-52D 18 FT BGS

Lab Sample ID: 140-19131-7
Date Collected: 05/14/20 14:40
Matrix: Solid
Date Received: 05/20/20 09:45
Percent Solids: 67.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 3	SEP	Non-Crystalline			5.000 g	25 mL	40065	06/03/20 08:00	KNC	TAL KNX
Step 3	Prep	3010A			5 mL	50 mL	40096	06/08/20 08:00	KNC	TAL KNX
Step 3	Analysis	6010B SEP		1			40441	06/18/20 12:57	KNC	TAL KNX
	Instrument ID: DUO									
Step 4	SEP	Metal Hydroxide			5.000 g	25 mL	40100	06/08/20 08:00	KNC	TAL KNX
Step 4	Prep	3010A			5 mL	50 mL	40214	06/10/20 08:00	KNC	TAL KNX
Step 4	Analysis	6010B SEP		1			40441	06/18/20 14:50	KNC	TAL KNX
	Instrument ID: DUO									
Step 5	SEP	Organic-Bound			5.000 g	75 mL	40215	06/10/20 08:00	KNC	TAL KNX
Step 5	Prep	3010A			5 mL	50 mL	40276	06/12/20 08:00	KNC	TAL KNX
Step 5	Analysis	6010B SEP		5			40453	06/19/20 12:30	KNC	TAL KNX
	Instrument ID: DUO									
Step 6	SEP	Acid/Sulfide			5.000 g	250 mL	40277	06/12/20 08:00	KNC	TAL KNX
Step 6	Analysis	6010B SEP		1			40453	06/19/20 16:22	KNC	TAL KNX
	Instrument ID: DUO									
Step 6	SEP	Acid/Sulfide			5.000 g	250 mL	40277	06/12/20 08:00	KNC	TAL KNX
Step 6	Analysis	6010B SEP		2			40453	06/19/20 17:10	KNC	TAL KNX
	Instrument ID: DUO									
Step 7	Prep	Residual			1.000 g	50 mL	40294	06/15/20 08:00	KNC	TAL KNX
Step 7	Analysis	6010B SEP		1			40487	06/22/20 14:07	KNC	TAL KNX
	Instrument ID: DUO									
Step 7	Prep	Residual			1.000 g	50 mL	40294	06/15/20 08:00	KNC	TAL KNX
Step 7	Analysis	6010B SEP		10			40487	06/22/20 15:30	KNC	TAL KNX
	Instrument ID: DUO									

Client Sample ID: PZ-52D 24-25 FT BGS

Lab Sample ID: 140-19131-8
Date Collected: 05/14/20 14:50
Matrix: Solid
Date Received: 05/20/20 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Sum of Steps 1-7	Analysis	6010B SEP		1			40572	06/25/20 11:53	DKW	TAL KNX
	Instrument ID: NOEQUIP									
Total/NA	Analysis	Moisture		1			40042	06/02/20 08:02	BKD	TAL KNX
	Instrument ID: NOEQUIP									

Client Sample ID: PZ-52D 24-25 FT BGS

Lab Sample ID: 140-19131-8
Date Collected: 05/14/20 14:50
Matrix: Solid
Date Received: 05/20/20 09:45
Percent Solids: 76.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Total			1.000 g	50 mL	39918	05/29/20 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		1			40512	06/23/20 13:38	KNC	TAL KNX
	Instrument ID: DUO									
Total/NA	Prep	Total			1.000 g	50 mL	39918	05/29/20 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		10			40512	06/23/20 15:17	KNC	TAL KNX
	Instrument ID: DUO									

Client Sample ID: PZ-52D 24-25 FT BGS

Lab Sample ID: 140-19131-8
Date Collected: 05/14/20 14:50
Matrix: Solid
Date Received: 05/20/20 09:45
Percent Solids: 76.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Total			1.000 g	50 mL	39918	05/29/20 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		2			40512	06/23/20 16:58	KNC	TAL KNX
	Instrument ID: DUO									
Step 1	SEP	Exchangeable			5.000 g	25 mL	40011	06/01/20 08:01	KNC	TAL KNX
Step 1	Prep	3010A			5 mL	50 mL	40023	06/02/20 08:00	KNC	TAL KNX
Step 1	Analysis	6010B SEP		4			40383	06/16/20 13:12	KNC	TAL KNX
	Instrument ID: DUO									
Step 2	SEP	Carbonate			5.000 g	25 mL	40024	06/02/20 08:00	KNC	TAL KNX
Step 2	Prep	3010A			5 mL	50 mL	40062	06/03/20 08:00	KNC	TAL KNX
Step 2	Analysis	6010B SEP		3			40383	06/16/20 15:08	KNC	TAL KNX
	Instrument ID: DUO									
Step 3	SEP	Non-Crystalline			5.000 g	25 mL	40065	06/03/20 08:00	KNC	TAL KNX
Step 3	Prep	3010A			5 mL	50 mL	40096	06/08/20 08:00	KNC	TAL KNX
Step 3	Analysis	6010B SEP		1			40441	06/18/20 13:02	KNC	TAL KNX
	Instrument ID: DUO									
Step 4	SEP	Metal Hydroxide			5.000 g	25 mL	40100	06/08/20 08:00	KNC	TAL KNX
Step 4	Prep	3010A			5 mL	50 mL	40214	06/10/20 08:00	KNC	TAL KNX
Step 4	Analysis	6010B SEP		1			40441	06/18/20 14:55	KNC	TAL KNX
	Instrument ID: DUO									
Step 5	SEP	Organic-Bound			5.000 g	75 mL	40215	06/10/20 08:00	KNC	TAL KNX
Step 5	Prep	3010A			5 mL	50 mL	40276	06/12/20 08:00	KNC	TAL KNX
Step 5	Analysis	6010B SEP		5			40453	06/19/20 12:35	KNC	TAL KNX
	Instrument ID: DUO									
Step 6	SEP	Acid/Sulfide			5.000 g	250 mL	40277	06/12/20 08:00	KNC	TAL KNX
Step 6	Analysis	6010B SEP		1			40453	06/19/20 16:27	KNC	TAL KNX
	Instrument ID: DUO									
Step 7	Prep	Residual			1.000 g	50 mL	40294	06/15/20 08:00	KNC	TAL KNX
Step 7	Analysis	6010B SEP		1			40487	06/22/20 14:12	KNC	TAL KNX
	Instrument ID: DUO									
Step 7	Prep	Residual			1.000 g	50 mL	40294	06/15/20 08:00	KNC	TAL KNX
Step 7	Analysis	6010B SEP		10			40487	06/22/20 15:50	KNC	TAL KNX
	Instrument ID: DUO									

Client Sample ID: BRGWC-50(2) 59 FT BGS

Lab Sample ID: 140-19131-9
Date Collected: 05/15/20 09:00
Matrix: Solid
Date Received: 05/20/20 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Sum of Steps 1-7	Analysis	6010B SEP		1			40572	06/25/20 11:53	DKW	TAL KNX
	Instrument ID: NOEQUIP									
Total/NA	Analysis	Moisture		1			40042	06/02/20 08:02	BKD	TAL KNX
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-19131-1

Client Sample ID: BRGWC-50(2) 59 FT BGS

Date Collected: 05/15/20 09:00
Date Received: 05/20/20 09:45

Lab Sample ID: 140-19131-9

Matrix: Solid
Percent Solids: 87.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Total			1.000 g	50 mL	39918	05/29/20 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		1			40512	06/23/20 13:44	KNC	TAL KNX
	Instrument ID: DUO									
Total/NA	Prep	Total			1.000 g	50 mL	39918	05/29/20 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		10			40512	06/23/20 15:22	KNC	TAL KNX
	Instrument ID: DUO									
Total/NA	Prep	Total			1.000 g	50 mL	39918	05/29/20 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		5			40512	06/23/20 17:03	KNC	TAL KNX
	Instrument ID: DUO									
Step 1	SEP	Exchangeable			5.000 g	25 mL	40011	06/01/20 08:01	KNC	TAL KNX
Step 1	Prep	3010A			5 mL	50 mL	40023	06/02/20 08:00	KNC	TAL KNX
Step 1	Analysis	6010B SEP		4			40383	06/16/20 13:18	KNC	TAL KNX
	Instrument ID: DUO									
Step 2	SEP	Carbonate			5.000 g	25 mL	40024	06/02/20 08:00	KNC	TAL KNX
Step 2	Prep	3010A			5 mL	50 mL	40062	06/03/20 08:00	KNC	TAL KNX
Step 2	Analysis	6010B SEP		3			40383	06/16/20 15:13	KNC	TAL KNX
	Instrument ID: DUO									
Step 3	SEP	Non-Crystalline			5.000 g	25 mL	40065	06/03/20 08:00	KNC	TAL KNX
Step 3	Prep	3010A			5 mL	50 mL	40096	06/08/20 08:00	KNC	TAL KNX
Step 3	Analysis	6010B SEP		1			40441	06/18/20 13:07	KNC	TAL KNX
	Instrument ID: DUO									
Step 4	SEP	Metal Hydroxide			5.000 g	25 mL	40100	06/08/20 08:00	KNC	TAL KNX
Step 4	Prep	3010A			5 mL	50 mL	40214	06/10/20 08:00	KNC	TAL KNX
Step 4	Analysis	6010B SEP		1			40441	06/18/20 15:00	KNC	TAL KNX
	Instrument ID: DUO									
Step 5	SEP	Organic-Bound			5.000 g	75 mL	40215	06/10/20 08:00	KNC	TAL KNX
Step 5	Prep	3010A			5 mL	50 mL	40276	06/12/20 08:00	KNC	TAL KNX
Step 5	Analysis	6010B SEP		5			40453	06/19/20 12:41	KNC	TAL KNX
	Instrument ID: DUO									
Step 6	SEP	Acid/Sulfide			5.000 g	250 mL	40277	06/12/20 08:00	KNC	TAL KNX
Step 6	Analysis	6010B SEP		1			40453	06/19/20 16:32	KNC	TAL KNX
	Instrument ID: DUO									
Step 6	SEP	Acid/Sulfide			5.000 g	250 mL	40277	06/12/20 08:00	KNC	TAL KNX
Step 6	Analysis	6010B SEP		5			40453	06/19/20 17:15	KNC	TAL KNX
	Instrument ID: DUO									
Step 7	Prep	Residual			1.000 g	50 mL	40294	06/15/20 08:00	KNC	TAL KNX
Step 7	Analysis	6010B SEP		1			40487	06/22/20 14:18	KNC	TAL KNX
	Instrument ID: DUO									
Step 7	Prep	Residual			1.000 g	50 mL	40294	06/15/20 08:00	KNC	TAL KNX
Step 7	Analysis	6010B SEP		10			40487	06/22/20 15:55	KNC	TAL KNX
	Instrument ID: DUO									

Client Sample ID: BRGWC-50(2) 63-63.5 FT BGS

Lab Sample ID: 140-19131-10

Date Collected: 05/15/20 09:20

Matrix: Solid

Date Received: 05/20/20 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Sum of Steps 1-7	Analysis	6010B SEP		1			40572	06/25/20 11:53	DKW	TAL KNX
	Instrument ID: NOEQUIP									
Total/NA	Analysis	Moisture		1			40042	06/02/20 08:02	BKD	TAL KNX
	Instrument ID: NOEQUIP									

Client Sample ID: BRGWC-50(2) 63-63.5 FT BGS

Lab Sample ID: 140-19131-10

Date Collected: 05/15/20 09:20

Matrix: Solid

Date Received: 05/20/20 09:45

Percent Solids: 99.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Total			1.000 g	50 mL	39918	05/29/20 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		10			40512	06/23/20 15:27	KNC	TAL KNX
	Instrument ID: DUO									
Total/NA	Prep	Total			1.000 g	50 mL	39918	05/29/20 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		2			40512	06/23/20 17:08	KNC	TAL KNX
	Instrument ID: DUO									
Step 1	SEP	Exchangeable			5.000 g	25 mL	40011	06/01/20 08:01	KNC	TAL KNX
Step 1	Prep	3010A			5 mL	50 mL	40023	06/02/20 08:00	KNC	TAL KNX
Step 1	Analysis	6010B SEP		4			40383	06/16/20 13:23	KNC	TAL KNX
	Instrument ID: DUO									
Step 2	SEP	Carbonate			5.000 g	25 mL	40024	06/02/20 08:00	KNC	TAL KNX
Step 2	Prep	3010A			5 mL	50 mL	40062	06/03/20 08:00	KNC	TAL KNX
Step 2	Analysis	6010B SEP		3			40383	06/16/20 15:18	KNC	TAL KNX
	Instrument ID: DUO									
Step 3	SEP	Non-Crystalline			5.000 g	25 mL	40065	06/03/20 08:00	KNC	TAL KNX
Step 3	Prep	3010A			5 mL	50 mL	40096	06/08/20 08:00	KNC	TAL KNX
Step 3	Analysis	6010B SEP		1			40441	06/18/20 13:12	KNC	TAL KNX
	Instrument ID: DUO									
Step 4	SEP	Metal Hydroxide			5.000 g	25 mL	40100	06/08/20 08:00	KNC	TAL KNX
Step 4	Prep	3010A			5 mL	50 mL	40214	06/10/20 08:00	KNC	TAL KNX
Step 4	Analysis	6010B SEP		1			40441	06/18/20 15:05	KNC	TAL KNX
	Instrument ID: DUO									
Step 5	SEP	Organic-Bound			5.000 g	75 mL	40215	06/10/20 08:00	KNC	TAL KNX
Step 5	Prep	3010A			5 mL	50 mL	40276	06/12/20 08:00	KNC	TAL KNX
Step 5	Analysis	6010B SEP		5			40453	06/19/20 12:46	KNC	TAL KNX
	Instrument ID: DUO									
Step 6	SEP	Acid/Sulfide			5.000 g	250 mL	40277	06/12/20 08:00	KNC	TAL KNX
Step 6	Analysis	6010B SEP		1			40453	06/19/20 16:38	KNC	TAL KNX
	Instrument ID: DUO									
Step 6	SEP	Acid/Sulfide			5.000 g	250 mL	40277	06/12/20 08:00	KNC	TAL KNX
Step 6	Analysis	6010B SEP		5			40453	06/19/20 17:21	KNC	TAL KNX
	Instrument ID: DUO									
Step 7	Prep	Residual			1.000 g	50 mL	40294	06/15/20 08:00	KNC	TAL KNX
Step 7	Analysis	6010B SEP		1			40487	06/22/20 14:23	KNC	TAL KNX
	Instrument ID: DUO									

Lab Chronicle

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-19131-1

Client Sample ID: BRGWC-50(2) 63-63.5 FT BGS

Lab Sample ID: 140-19131-10
Date Collected: 05/15/20 09:20
Matrix: Solid
Date Received: 05/20/20 09:45
Percent Solids: 99.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 7	Prep	Residual			1.000 g	50 mL	40294	06/15/20 08:00	KNC	TAL KNX
Step 7	Analysis	6010B SEP		10			40487	06/22/20 16:00	KNC	TAL KNX
	Instrument ID: DUO									
Step 7	Prep	Residual			1.000 g	50 mL	40294	06/15/20 08:00	KNC	TAL KNX
Step 7	Analysis	6010B SEP		5			40487	06/22/20 16:57	KNC	TAL KNX
	Instrument ID: DUO									

Client Sample ID: PZ-53D 30 FT BGS

Lab Sample ID: 140-19131-11
Date Collected: 05/16/20 16:15
Matrix: Solid
Date Received: 05/20/20 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Sum of Steps 1-7	Analysis	6010B SEP		1			40572	06/25/20 11:53	DKW	TAL KNX
	Instrument ID: NOEQUIP									
Total/NA	Analysis	Moisture		1			40042	06/02/20 08:02	BKD	TAL KNX
	Instrument ID: NOEQUIP									

Client Sample ID: PZ-53D 30 FT BGS

Lab Sample ID: 140-19131-11
Date Collected: 05/16/20 16:15
Matrix: Solid
Date Received: 05/20/20 09:45
Percent Solids: 73.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Total			1.000 g	50 mL	39918	05/29/20 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		1			40512	06/23/20 13:55	KNC	TAL KNX
	Instrument ID: DUO									
Total/NA	Prep	Total			1.000 g	50 mL	39918	05/29/20 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		10			40512	06/23/20 15:32	KNC	TAL KNX
	Instrument ID: DUO									
Total/NA	Prep	Total			1.000 g	50 mL	39918	05/29/20 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		2			40512	06/23/20 17:14	KNC	TAL KNX
	Instrument ID: DUO									
Step 1	SEP	Exchangeable			5.000 g	25 mL	40011	06/01/20 08:01	KNC	TAL KNX
Step 1	Prep	3010A			5 mL	50 mL	40023	06/02/20 08:00	KNC	TAL KNX
Step 1	Analysis	6010B SEP		4			40383	06/16/20 13:28	KNC	TAL KNX
	Instrument ID: DUO									
Step 2	SEP	Carbonate			5.000 g	25 mL	40024	06/02/20 08:00	KNC	TAL KNX
Step 2	Prep	3010A			5 mL	50 mL	40062	06/03/20 08:00	KNC	TAL KNX
Step 2	Analysis	6010B SEP		3			40383	06/16/20 15:24	KNC	TAL KNX
	Instrument ID: DUO									
Step 3	SEP	Non-Crystalline			5.000 g	25 mL	40065	06/03/20 08:00	KNC	TAL KNX
Step 3	Prep	3010A			5 mL	50 mL	40096	06/08/20 08:00	KNC	TAL KNX
Step 3	Analysis	6010B SEP		1			40441	06/18/20 13:18	KNC	TAL KNX
	Instrument ID: DUO									

Client Sample ID: PZ-53D 30 FT BGS

Lab Sample ID: 140-19131-11
Date Collected: 05/16/20 16:15
Matrix: Solid
Date Received: 05/20/20 09:45
Percent Solids: 73.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 4	SEP	Metal Hydroxide			5.000 g	25 mL	40100	06/08/20 08:00	KNC	TAL KNX
Step 4	Prep	3010A			5 mL	50 mL	40214	06/10/20 08:00	KNC	TAL KNX
Step 4	Analysis	6010B SEP		1			40441	06/18/20 15:10	KNC	TAL KNX
	Instrument ID: DUO									
Step 5	SEP	Organic-Bound			5.000 g	75 mL	40215	06/10/20 08:00	KNC	TAL KNX
Step 5	Prep	3010A			5 mL	50 mL	40276	06/12/20 08:00	KNC	TAL KNX
Step 5	Analysis	6010B SEP		5			40453	06/19/20 12:51	KNC	TAL KNX
	Instrument ID: DUO									
Step 6	SEP	Acid/Sulfide			5.000 g	250 mL	40277	06/12/20 08:00	KNC	TAL KNX
Step 6	Analysis	6010B SEP		1			40453	06/19/20 16:43	KNC	TAL KNX
	Instrument ID: DUO									
Step 7	Prep	Residual			1.000 g	50 mL	40294	06/15/20 08:00	KNC	TAL KNX
Step 7	Analysis	6010B SEP		1			40487	06/22/20 14:29	KNC	TAL KNX
	Instrument ID: DUO									
Step 7	Prep	Residual			1.000 g	50 mL	40294	06/15/20 08:00	KNC	TAL KNX
Step 7	Analysis	6010B SEP		10			40487	06/22/20 16:06	KNC	TAL KNX
	Instrument ID: DUO									

Client Sample ID: PZ-53D 36 FT BGS

Lab Sample ID: 140-19131-12
Date Collected: 05/16/20 16:25
Matrix: Solid
Date Received: 05/20/20 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Sum of Steps 1-7	Analysis	6010B SEP		1			40572	06/25/20 11:53	DKW	TAL KNX
	Instrument ID: NOEQUIP									
Total/NA	Analysis	Moisture		1			40042	06/02/20 08:02	BKD	TAL KNX
	Instrument ID: NOEQUIP									

Client Sample ID: PZ-53D 36 FT BGS

Lab Sample ID: 140-19131-12
Date Collected: 05/16/20 16:25
Matrix: Solid
Date Received: 05/20/20 09:45
Percent Solids: 82.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Total			1.000 g	50 mL	39918	05/29/20 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		1			40512	06/23/20 14:01	KNC	TAL KNX
	Instrument ID: DUO									
Total/NA	Prep	Total			1.000 g	50 mL	39918	05/29/20 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		10			40512	06/23/20 15:37	KNC	TAL KNX
	Instrument ID: DUO									
Total/NA	Prep	Total			1.000 g	50 mL	39918	05/29/20 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		5			40512	06/23/20 17:19	KNC	TAL KNX
	Instrument ID: DUO									
Step 1	SEP	Exchangeable			5.000 g	25 mL	40011	06/01/20 08:01	KNC	TAL KNX
Step 1	Prep	3010A			5 mL	50 mL	40023	06/02/20 08:00	KNC	TAL KNX
Step 1	Analysis	6010B SEP		4			40383	06/16/20 13:33	KNC	TAL KNX
	Instrument ID: DUO									

Lab Chronicle

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-19131-1

Client Sample ID: PZ-53D 36 FT BGS

Lab Sample ID: 140-19131-12
Date Collected: 05/16/20 16:25
Matrix: Solid
Date Received: 05/20/20 09:45
Percent Solids: 82.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 2	SEP	Carbonate			5.000 g	25 mL	40024	06/02/20 08:00	KNC	TAL KNX
Step 2	Prep	3010A			5 mL	50 mL	40062	06/03/20 08:00	KNC	TAL KNX
Step 2	Analysis	6010B SEP		3			40383	06/16/20 15:29	KNC	TAL KNX
	Instrument ID: DUO									
Step 3	SEP	Non-Crystalline			5.000 g	25 mL	40065	06/03/20 08:00	KNC	TAL KNX
Step 3	Prep	3010A			5 mL	50 mL	40096	06/08/20 08:00	KNC	TAL KNX
Step 3	Analysis	6010B SEP		1			40441	06/18/20 13:23	KNC	TAL KNX
	Instrument ID: DUO									
Step 4	SEP	Metal Hydroxide			5.000 g	25 mL	40100	06/08/20 08:00	KNC	TAL KNX
Step 4	Prep	3010A			5 mL	50 mL	40214	06/10/20 08:00	KNC	TAL KNX
Step 4	Analysis	6010B SEP		1			40441	06/18/20 15:15	KNC	TAL KNX
	Instrument ID: DUO									
Step 5	SEP	Organic-Bound			5.000 g	75 mL	40215	06/10/20 08:00	KNC	TAL KNX
Step 5	Prep	3010A			5 mL	50 mL	40276	06/12/20 08:00	KNC	TAL KNX
Step 5	Analysis	6010B SEP		5			40453	06/19/20 12:57	KNC	TAL KNX
	Instrument ID: DUO									
Step 6	SEP	Acid/Sulfide			5.000 g	250 mL	40277	06/12/20 08:00	KNC	TAL KNX
Step 6	Analysis	6010B SEP		1			40453	06/19/20 16:49	KNC	TAL KNX
	Instrument ID: DUO									
Step 6	SEP	Acid/Sulfide			5.000 g	250 mL	40277	06/12/20 08:00	KNC	TAL KNX
Step 6	Analysis	6010B SEP		2			40453	06/19/20 17:26	KNC	TAL KNX
	Instrument ID: DUO									
Step 7	Prep	Residual			1.000 g	50 mL	40294	06/15/20 08:00	KNC	TAL KNX
Step 7	Analysis	6010B SEP		1			40487	06/22/20 14:34	KNC	TAL KNX
	Instrument ID: DUO									
Step 7	Prep	Residual			1.000 g	50 mL	40294	06/15/20 08:00	KNC	TAL KNX
Step 7	Analysis	6010B SEP		10			40487	06/22/20 16:11	KNC	TAL KNX
	Instrument ID: DUO									
Step 7	Prep	Residual			1.000 g	50 mL	40294	06/15/20 08:00	KNC	TAL KNX
Step 7	Analysis	6010B SEP		5			40487	06/22/20 17:02	KNC	TAL KNX
	Instrument ID: DUO									

Client Sample ID: Method Blank

Lab Sample ID: MB 140-39918/15-A
Date Collected: N/A
Matrix: Solid
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Total			1.000 g	50 mL	39918	05/29/20 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		1			40512	06/23/20 12:12	KNC	TAL KNX
	Instrument ID: DUO									

Lab Chronicle

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-19131-1

Client Sample ID: Method Blank
Lab Sample ID: MB 140-40011/15-B ^4
Date Collected: N/A
Matrix: Solid
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 1	SEP	Exchangeable			5.000 g	25 mL	40011	06/01/20 08:01	KNC	TAL KNX
Step 1	Prep	3010A			5 mL	50 mL	40023	06/02/20 08:00	KNC	TAL KNX
Step 1	Analysis	6010B SEP		4			40383	06/16/20 11:55	KNC	TAL KNX
	Instrument ID: DUO									

Client Sample ID: Method Blank
Lab Sample ID: MB 140-40024/15-B ^3
Date Collected: N/A
Matrix: Solid
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 2	SEP	Carbonate			5.000 g	25 mL	40024	06/02/20 08:00	KNC	TAL KNX
Step 2	Prep	3010A			5 mL	50 mL	40062	06/03/20 08:00	KNC	TAL KNX
Step 2	Analysis	6010B SEP		3			40383	06/16/20 13:48	KNC	TAL KNX
	Instrument ID: DUO									

Client Sample ID: Method Blank
Lab Sample ID: MB 140-40065/15-B
Date Collected: N/A
Matrix: Solid
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 3	SEP	Non-Crystalline			5.000 g	25 mL	40065	06/03/20 08:00	KNC	TAL KNX
Step 3	Prep	3010A			5 mL	50 mL	40096	06/08/20 08:00	KNC	TAL KNX
Step 3	Analysis	6010B SEP		1			40441	06/18/20 11:44	KNC	TAL KNX
	Instrument ID: DUO									

Client Sample ID: Method Blank
Lab Sample ID: MB 140-40100/15-B
Date Collected: N/A
Matrix: Solid
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 4	SEP	Metal Hydroxide			5.000 g	25 mL	40100	06/08/20 08:00	KNC	TAL KNX
Step 4	Prep	3010A			5 mL	50 mL	40214	06/10/20 08:00	KNC	TAL KNX
Step 4	Analysis	6010B SEP		1			40441	06/18/20 13:39	KNC	TAL KNX
	Instrument ID: DUO									

Client Sample ID: Method Blank
Lab Sample ID: MB 140-40215/15-B ^5
Date Collected: N/A
Matrix: Solid
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 5	SEP	Organic-Bound			5.000 g	75 mL	40215	06/10/20 08:00	KNC	TAL KNX
Step 5	Prep	3010A			5 mL	50 mL	40276	06/12/20 08:00	KNC	TAL KNX
Step 5	Analysis	6010B SEP		5			40453	06/19/20 11:16	KNC	TAL KNX
	Instrument ID: DUO									

Lab Chronicle

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-19131-1

Client Sample ID: Method Blank
Lab Sample ID: MB 140-40277/15-A

Date Collected: N/A
Matrix: Solid
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 6	SEP	Acid/Sulfide			5.000 g	250 mL	40277	06/12/20 08:00	KNC	TAL KNX
Step 6	Analysis	6010B SEP		1			40453	06/19/20 13:12	KNC	TAL KNX
	Instrument ID: DUO									

Client Sample ID: Method Blank
Lab Sample ID: MB 140-40294/15-A

Date Collected: N/A
Matrix: Solid
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 7	Prep	Residual			1.000 g	50 mL	40294	06/15/20 08:00	KNC	TAL KNX
Step 7	Analysis	6010B SEP		1			40487	06/22/20 12:47	KNC	TAL KNX
	Instrument ID: DUO									

Client Sample ID: Lab Control Sample
Lab Sample ID: LCS 140-39918/16-A

Date Collected: N/A
Matrix: Solid
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Total			1.000 g	50 mL	39918	05/29/20 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		1			40512	06/23/20 12:17	KNC	TAL KNX
	Instrument ID: DUO									

Client Sample ID: Lab Control Sample
Lab Sample ID: LCS 140-40011/16-B ^5

Date Collected: N/A
Matrix: Solid
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 1	SEP	Exchangeable			5.000 g	25 mL	40011	06/01/20 08:01	KNC	TAL KNX
Step 1	Prep	3010A			5 mL	50 mL	40023	06/02/20 08:00	KNC	TAL KNX
Step 1	Analysis	6010B SEP		5			40383	06/16/20 12:00	KNC	TAL KNX
	Instrument ID: DUO									

Client Sample ID: Lab Control Sample
Lab Sample ID: LCS 140-40024/16-B ^5

Date Collected: N/A
Matrix: Solid
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 2	SEP	Carbonate			5.000 g	25 mL	40024	06/02/20 08:00	KNC	TAL KNX
Step 2	Prep	3010A			5 mL	50 mL	40062	06/03/20 08:00	KNC	TAL KNX
Step 2	Analysis	6010B SEP		5			40383	06/16/20 13:54	KNC	TAL KNX
	Instrument ID: DUO									

Lab Chronicle

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-19131-1

Client Sample ID: Lab Control Sample
Lab Sample ID: LCS 140-40065/16-B
Date Collected: N/A
Matrix: Solid
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 3	SEP	Non-Crystalline			5.000 g	25 mL	40065	06/03/20 08:00	KNC	TAL KNX
Step 3	Prep	3010A			5 mL	50 mL	40096	06/08/20 08:00	KNC	TAL KNX
Step 3	Analysis	6010B SEP		1			40441	06/18/20 11:49	KNC	TAL KNX
	Instrument ID: DUO									

Client Sample ID: Lab Control Sample
Lab Sample ID: LCS 140-40100/16-B
Date Collected: N/A
Matrix: Solid
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 4	SEP	Metal Hydroxide			5.000 g	25 mL	40100	06/08/20 08:00	KNC	TAL KNX
Step 4	Prep	3010A			5 mL	50 mL	40214	06/10/20 08:00	KNC	TAL KNX
Step 4	Analysis	6010B SEP		1			40441	06/18/20 13:44	KNC	TAL KNX
	Instrument ID: DUO									

Client Sample ID: Lab Control Sample
Lab Sample ID: LCS 140-40215/16-B ^5
Date Collected: N/A
Matrix: Solid
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 5	SEP	Organic-Bound			5.000 g	75 mL	40215	06/10/20 08:00	KNC	TAL KNX
Step 5	Prep	3010A			5 mL	50 mL	40276	06/12/20 08:00	KNC	TAL KNX
Step 5	Analysis	6010B SEP		5			40453	06/19/20 11:21	KNC	TAL KNX
	Instrument ID: DUO									

Client Sample ID: Lab Control Sample
Lab Sample ID: LCS 140-40277/16-A
Date Collected: N/A
Matrix: Solid
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 6	SEP	Acid/Sulfide			5.000 g	250 mL	40277	06/12/20 08:00	KNC	TAL KNX
Step 6	Analysis	6010B SEP		1			40453	06/19/20 13:17	KNC	TAL KNX
	Instrument ID: DUO									

Client Sample ID: Lab Control Sample
Lab Sample ID: LCS 140-40294/16-A
Date Collected: N/A
Matrix: Solid
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 7	Prep	Residual			1.000 g	50 mL	40294	06/15/20 08:00	KNC	TAL KNX
Step 7	Analysis	6010B SEP		1			40487	06/22/20 12:52	KNC	TAL KNX
	Instrument ID: DUO									

Lab Chronicle

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-19131-1

Client Sample ID: Lab Control Sample Dup
Lab Sample ID: LCSD 140-39918/17-A
Date Collected: N/A
Matrix: Solid
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Total			1.000 g	50 mL	39918	05/29/20 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		1			40512	06/23/20 12:22	KNC	TAL KNX
	Instrument ID: DUO									

Client Sample ID: Lab Control Sample Dup
Lab Sample ID: LCSD 140-40011/17-B ^5
Date Collected: N/A
Matrix: Solid
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 1	SEP	Exchangeable			5.000 g	25 mL	40011	06/01/20 08:01	KNC	TAL KNX
Step 1	Prep	3010A			5 mL	50 mL	40023	06/02/20 08:00	KNC	TAL KNX
Step 1	Analysis	6010B SEP		5			40383	06/16/20 12:05	KNC	TAL KNX
	Instrument ID: DUO									

Client Sample ID: Lab Control Sample Dup
Lab Sample ID: LCSD 140-40024/17-B ^5
Date Collected: N/A
Matrix: Solid
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 2	SEP	Carbonate			5.000 g	25 mL	40024	06/02/20 08:00	KNC	TAL KNX
Step 2	Prep	3010A			5 mL	50 mL	40062	06/03/20 08:00	KNC	TAL KNX
Step 2	Analysis	6010B SEP		5			40383	06/16/20 13:59	KNC	TAL KNX
	Instrument ID: DUO									

Client Sample ID: Lab Control Sample Dup
Lab Sample ID: LCSD 140-40065/17-B
Date Collected: N/A
Matrix: Solid
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 3	SEP	Non-Crystalline			5.000 g	25 mL	40065	06/03/20 08:00	KNC	TAL KNX
Step 3	Prep	3010A			5 mL	50 mL	40096	06/08/20 08:00	KNC	TAL KNX
Step 3	Analysis	6010B SEP		1			40441	06/18/20 11:54	KNC	TAL KNX
	Instrument ID: DUO									

Client Sample ID: Lab Control Sample Dup
Lab Sample ID: LCSD 140-40100/17-B
Date Collected: N/A
Matrix: Solid
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 4	SEP	Metal Hydroxide			5.000 g	25 mL	40100	06/08/20 08:00	KNC	TAL KNX
Step 4	Prep	3010A			5 mL	50 mL	40214	06/10/20 08:00	KNC	TAL KNX
Step 4	Analysis	6010B SEP		1			40441	06/18/20 13:49	KNC	TAL KNX
	Instrument ID: DUO									

Lab Chronicle

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-19131-1

Client Sample ID: Lab Control Sample Dup
Date Collected: N/A
Date Received: N/A

Lab Sample ID: LCSD 140-40215/17-B ^5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 5	SEP	Organic-Bound			5.000 g	75 mL	40215	06/10/20 08:00	KNC	TAL KNX
Step 5	Prep	3010A			5 mL	50 mL	40276	06/12/20 08:00	KNC	TAL KNX
Step 5	Analysis	6010B SEP		5			40453	06/19/20 11:27	KNC	TAL KNX
	Instrument ID: DUO									

Client Sample ID: Lab Control Sample Dup
Date Collected: N/A
Date Received: N/A

Lab Sample ID: LCSD 140-40277/17-A
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 6	SEP	Acid/Sulfide			5.000 g	250 mL	40277	06/12/20 08:00	KNC	TAL KNX
Step 6	Analysis	6010B SEP		1			40453	06/19/20 13:22	KNC	TAL KNX
	Instrument ID: DUO									

Client Sample ID: Lab Control Sample Dup
Date Collected: N/A
Date Received: N/A

Lab Sample ID: LCSD 140-40294/17-A
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 7	Prep	Residual			1.000 g	50 mL	40294	06/15/20 08:00	KNC	TAL KNX
Step 7	Analysis	6010B SEP		1			40487	06/22/20 12:57	KNC	TAL KNX
	Instrument ID: DUO									

Client Sample ID: BRGWA-2S(2) 39 FT BGS
Date Collected: 05/13/20 14:30
Date Received: 05/20/20 09:45

Lab Sample ID: 140-19131-1 DU
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			40042	06/02/20 08:02	BKD	TAL KNX
	Instrument ID: NOEQUIP									

Laboratory References:
TAL KNX = Eurofins TestAmerica, Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000

Accreditation/Certification Summary

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-19131-1

Laboratory: Eurofins TestAmerica, Knoxville

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	TNI0189	01-02-21

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
6010B	Total	Solid	Aluminum
6010B	Total	Solid	Beryllium
6010B	Total	Solid	Cadmium
6010B	Total	Solid	Cobalt
6010B	Total	Solid	Iron
6010B	Total	Solid	Manganese
6010B	Total	Solid	Selenium
6010B SEP		Solid	Aluminum
6010B SEP		Solid	Beryllium
6010B SEP		Solid	Cadmium
6010B SEP		Solid	Cobalt
6010B SEP		Solid	Iron
6010B SEP		Solid	Manganese
6010B SEP		Solid	Selenium
6010B SEP	3010A	Solid	Aluminum
6010B SEP	3010A	Solid	Beryllium
6010B SEP	3010A	Solid	Cadmium
6010B SEP	3010A	Solid	Cobalt
6010B SEP	3010A	Solid	Iron
6010B SEP	3010A	Solid	Manganese
6010B SEP	3010A	Solid	Selenium
6010B SEP	Acid/Sulfide	Solid	Aluminum
6010B SEP	Acid/Sulfide	Solid	Beryllium
6010B SEP	Acid/Sulfide	Solid	Cadmium
6010B SEP	Acid/Sulfide	Solid	Cobalt
6010B SEP	Acid/Sulfide	Solid	Iron
6010B SEP	Acid/Sulfide	Solid	Manganese
6010B SEP	Acid/Sulfide	Solid	Selenium
6010B SEP	Residual	Solid	Aluminum
6010B SEP	Residual	Solid	Beryllium
6010B SEP	Residual	Solid	Cadmium
6010B SEP	Residual	Solid	Cobalt
6010B SEP	Residual	Solid	Iron
6010B SEP	Residual	Solid	Manganese
6010B SEP	Residual	Solid	Selenium
Moisture		Solid	Percent Moisture

Method Summary

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-19131-1

Method	Method Description	Protocol	Laboratory
6010B	SEP Metals (ICP) - Total	SW846	TAL KNX
6010B SEP	SEP Metals (ICP)	SW846	TAL KNX
Moisture	Percent Moisture	EPA	TAL KNX
3010A	Preparation, Total Metals	SW846	TAL KNX
Acid/Sulfide	Sequential Extraction Procedure, Acid/Sulfide Fraction	TAL-KNOX	TAL KNX
Carbonate	Sequential Extraction Procedure, Carbonate Fraction	TAL-KNOX	TAL KNX
Exchangeable	Sequential Extraction Procedure, Exchangeable Fraction	TAL-KNOX	TAL KNX
Metal Hydroxide	Sequential Extraction Procedure, Metal Hydroxide Fraction	TAL-KNOX	TAL KNX
Non-Crystalline	Sequential Extraction Procedure, Non-crystalline Materials	TAL-KNOX	TAL KNX
Organic-Bound	Sequential Extraction Procedure, Organic Bound Fraction	TAL-KNOX	TAL KNX
Residual	Sequential Extraction Procedure, Residual Fraction	TAL-KNOX	TAL KNX
Total	Preparation, Total Material	TAL-KNOX	TAL KNX

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL-KNOX = TestAmerica Laboratories, Knoxville, Facility Standard Operating Procedure.

Laboratory References:

TAL KNX = Eurofins TestAmerica, Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000

Eurofins TestAmerica, Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921-5947
phone 865.291.3000 fax 865.584.4315

Chain of Custod

140-19131 Chain of Custody

eurofins Environment Testing TestAmerica

Client Contact	**Project Manager: Brian Steele**		COC No: 140-8035-2549.1
Golder Associates Inc.	Email: bsteele@golder.com	Site Contact: Shannon George	Date:	Page 1 of 1
5170 Peachtree Road, Building 100, Suite 300	Tel/Fax: 470-512-3923	Lab Contact: Ryan Henry	Carrier: FedEx	TALS Project #:
Atlanta, GA 30341	**Analysis Turnaround Time**			Sampler:
770-496-1893	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
	TAT if different from Below _____			Walk-in Client:
Project Name: PLANT BRANCH	☐ 2 weeks			Lab Sampling:
Site: SCS	☐ 1 week			
PO# 1661062541B / 14005864	☐ 2 days			Job / SDG No.:
	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	6010B_SEP_ - SEP Metals	Sample Specific Notes:
BRGWA-2S(2) 39 ft bgs	5/13/2020	14:30	G	S	1 x 4 oz jar	N	N	X	CUSTODY SEALS INTACT
BRGWA-2S(2) 43 ft bgs	5/13/2020	14:40	G	S	1 x 4 oz jar	N	N	X	RECEIVED AT RT 0.8 / CT 0.6
BRGWA-5S(2) 38 ft bgs	5/14/2020	07:40	G	S	1 x 4 oz jar	N	N	X	bkd 5-20-20
BRGWA-5S(2) 32 ft bgs	5/14/2020	07:50	G	S	1 x 4 oz jar	N	N	X	FedEx 782994420200 PD
BRGWA-6S(2) 42 ft bgs	5/14/2020	12:05	G	S	1 x 4 oz jar	N	N	X	
BRGWA-6S(2) 48 ft bgs	5/14/2020	12:15	G	S	1 x 4 oz jar	N	N	X	
PZ-52D 18 ft bgs	5/14/2020	14:40	G	S	1 x 4 oz jar	N	N	X	
PZ-52D 24-25 ft bgs	5/14/2020	14:50	G	S	1 x 4 oz jar	N	N	X	
BRGWC-50(2) 59 ft bgs	5/15/2020	09:00	G	S	1 x 4 oz jar	N	N	X	
BRGWC-50(2) 63-63.5 ft bgs	5/15/2020	09:20	G	S	1 x 4 oz jar	N	N	X	
PZ-53D 30 ft bgs	5/16/2020	16:15	G	S	1 x 4 oz jar	N	N	X	
PZ-53D 36 ft bgs	5/16/2020	16:25	G	S	1 x 4 oz jar	N	N	X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd:_____ Corr'd:_____		Therm ID No.:_____
Relinquished by: Shannon George	Company: Golder	Date/Time: 5/18/20 1800	Received by: Jude Waguespack	Company: Golder	Date/Time: 05/18/20 1800
Relinquished by: Waguespack	Company: Golder	Date/Time: 0925 5/19/20	Received by: FED EX	Company: Fed Ex	Date/Time: 05/19/20 0925
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: BTA-KNX	Date/Time: 5-20-20 09:45

Form No. CA-C-WI-002, Rev. 4.33, dated 5/4/2020

6/25/2020

Loc: 140

EUROFINS/TESTAMERICA KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST **Log In Number:** **19131**

Review Items	Yes	No	NA	If No, what was the problem?	Comments/Actions Taken
1. Are the shipping containers intact?	✓		✓	☐ **Containers, Broken**	10
2. Were ambient air containers received intact?			✓	☐ Checked in lab	
3. The coolers/containers custody seal if present, is it intact?	✓			☐ Yes ☐ NA	
4. Is the cooler temperature within limits? (> freezing temp. of water to 6 °C, VOST: 10°C) Thermometer ID : SG48 Correction factor: 0.0	✓			☐ **Cooler Out of Temp, Client Contacted, Proceed/Cancel** ☐ **Cooler Out of Temp, Same Day Receipt**	
5. Were all of the sample containers received intact?	✓			☐ **Containers, Broken**	
6. Were samples received in appropriate containers?	✓			☐ **Containers, Improper; Client Contacted; Proceed/Cancel**	
7. Do sample container labels match COC? (IDs, Dates, Times)	✓			☐ **COC & Samples Do Not Match** ☐ **COC Incorrect/Incomplete** ☐ **COC Not Received**	
8. Were all of the samples listed on the COC received?	✓			☐ **Sample Received, Not on COC** ☐ **Sample on COC, Not Received**	
9. Is the date/time of sample collection noted?	✓			☐ **COC; No Date/Time; Client Contacted**	
10. Was the sampler identified on the COC?		✓		☑ **Sampler Not Listed on COC**	**Labeling Verified by:** **Date:**
11. Is the client and project name/# identified?	✓			☐ **COC Incorrect/Incomplete**	**pH test strip lot number:**
12. Are tests/parameters listed for each sample?	✓			☐ **COC No tests on COC**	
13. Is the matrix of the samples noted?	✓			☐ **COC Incorrect/Incomplete**	
14. Was COC relinquished? (Signed/Dated/Timed)	✓			☐ **COC Incorrect/Incomplete**	
15. Were samples received within holding time?	✓			☐ **Holding Time - Receipt**	
16. Were samples received with correct chemical preservative (excluding Encore)?			✓	☐ **pH Adjusted, pH Included (See box 16A)** ☐ **Incorrect Preservative**	
17. Were VOA samples received without headspace?			✓	☐ **Headspace (VOA only)**	
18. Did you check for residual chlorine, if necessary? (e.g. 1613B, 1668) Chlorine test strip lot number:			✓	☐ **Residual Chlorine**	
19. For 1613B water samples is pH<9?			✓	☐ If no, notify lab to adjust	
20. For rad samples was sample activity info. Provided?			✓	☐ Project missing info	

	Box 16A: pH Preservation	Box 18A: Residual Chlorine
Preservative:		
Lot Number:		
Exp Date:		
Analyst:		
Date:		
Time:		

Project #: 140038804 PM Instructions:

Sample Receiving Associate: Date: 5.28.20

QA026R32.doc, 062719

6/25/2020

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921
Tel: (865)291-3000

Laboratory Job ID: 140-22369-1
Client Project/Site: SCS Site, Plant Branch
Revision: 1

For:
Golder Associates Inc.
5170 Peachtree Road
Building 100, Suite 300
Atlanta, Georgia 30341

Attn: Brian Steele

Ryan Henry

Authorized for release by:
4/29/2021 9:06:10 AM

Ryan Henry, Project Manager I
(865)291-3000
williamr.henry@eurofinset.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Definitions/Glossary 3
Case Narrative 4
Sample Summary 7
Client Sample Results 8
Default Detection Limits 10
QC Sample Results 13
QC Association Summary 23
Lab Chronicle 27
Certification Summary 35
Method Summary 36
Chain of Custody 37

Definitions/Glossary

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-22369-1

Qualifiers

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL, and the absolute difference between results is < the upper reporting limits for both.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 140-22369-1

Laboratory: Eurofins TestAmerica, Knoxville

Narrative

Job Narrative
140-22369-1
Revised

This report has been revised to add cadmium as requested by the client.

Receipt
The sample was received on 3/20/2021 at 9:40am and arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.6º C.

Metals
7 Step Sequential Extraction Procedure

These soil samples were prepared and analyzed using Eurofins TestAmerica Knoxville standard operating procedure KNOX-MT-0008, "7 Step Sequential Extraction Procedure". SW-846 Method 6010B as incorporated in Eurofins TestAmerica Knoxville standard operating procedure KNOX-MT-0007 was used to perform the final instrument analyses.

An aliquot of each sample was sequentially extracted using the steps listed below:

· Step 1 - Exchangeable Fraction: A 5 gram aliquot of sample was extracted with 25 mL of 1M magnesium sulfate (MgSO4), centrifuged and filtered. 5 mL of the resulting leachate was digested using method 3010A and analyzed by method 6010B. Results are reported in mg/kg on a dry weight basis.
· Step 2 - Carbonate Fraction: The sample residue from step 1 was extracted with 25 mL of 1M sodium acetate/acetic acid (NaOAc/HOAc) at pH 5, centrifuged and filtered. 5 mL of the resulting leachate was digested using method 3010A and analyzed by method 6010B. Results are reported in mg/kg on a dry weight basis.
· Step 3 - Non-crystalline Materials Fraction: The sample residue from step 2 was extracted with 25 mL of 0.2M ammonium oxalate (pH 3), centrifuged and filtered. 5 mL of the resulting leachate was digested using method 3010A and analyzed by method 6010B. Results are reported in mg/kg on a dry weight basis.
· Step 4 - Metal Hydroxide Fraction: The sample residue from step 3 was extracted with 25 mL of 1M hydroxylamine hydrochloride solution in 25% v/v acetic acid, centrifuged and filtered. 5 mL of the resulting leachate was digested using method 3010A and analyzed by method 6010B. Results are reported in mg/kg on a dry weight basis.
· Step 5 - Organic-bound Fraction: The sample residue from step 4 was extracted three times with 25 mL of 5% sodium hypochlorite (NaClO) at pH 9.5, centrifuged and filtered. The resulting leachates were combined and 5 mL were digested using method 3010A and analyzed by method 6010B. Results are reported in mg/kg on a dry weight basis.
· Step 6 - Acid/Sulfide Fraction: The sample residue from step 5 was extracted with 25 mL of a 3:1:2 v/v solution of HCl-HNO3-H2O, centrifuged and filtered. 5 mL of the resulting leachate was diluted to 50 mL with reagent water and analyzed by method 6010B. Results are reported in mg/kg on a dry weight basis.
· Step 7 - Residual Fraction: A 1.0 g aliquot of the sample residue from step 6 was digested using HF, HNO3, HCl and H3BO3. The digestate was analyzed by ICP using method 6010B. Results are reported in mg/kg on a dry weight basis.

In addition, a 1.0 g aliquot of the original sample was digested using HF, HNO3, HCl and H3BO3. The digestate was analyzed by ICP using method 6010B. Total metal results are reported in mg/kg on a dry weight basis.

Results were calculated using the following equation:

Result, µg/g or mg/Kg, dry weight = (C × V × V1 × D) / (W × S × V2)

Where:
C = Concentration from instrument readout, µg/mL
V = Final volume of digestate, mL
D = Instrument dilution factor
V1 = Total volume of leachate, mL
V2 = Volume of leachate digested, mL
W = Wet weight of sample, g
S = Percent solids/100

Job ID: 140-22369-1 (Continued)

Laboratory: Eurofins TestAmerica, Knoxville (Continued)

A method blank, laboratory control sample and laboratory control sample duplicate were prepared and analyzed with each SEP step in order to provide information about both the presence of elements of interest in the extraction solutions, and the recovery of elements of interest from the extraction solutions. Results outside of laboratory QC limits do not reflect out of control performance, but rather the effect of the extraction solution upon the analyte.

A laboratory sample duplicate was prepared and analyzed with each batch of samples in order to provide information regarding the reproducibility of the procedure.

SEP Report Notes:

The final report lists the results for each step, the result for the total digestion of the sample, and a sum of the results of steps 1 through 7 by element.

Magnesium was not reported for step 1 because the extraction solution for this step (magnesium sulfate) contains high levels of magnesium. Sodium was not reported for steps 2 and 5 since the extraction solutions for these steps contain high levels of sodium. The sum of steps 1 through 7 is much higher than the total result for sodium and magnesium due to the magnesium and sodium introduced by the extraction solutions.

The digestates for steps 1, 2 and 5 were analyzed at a dilution due to instrument problems caused by the high solids content of the digestates. The reporting limits were adjusted accordingly.

Methods 6010B, 6010B SEP: The serial dilution performed for the following samples associated with batch 140-49029 were outside control limits: (140-22369-A-1-A SD ^10), (140-22369-A-1-A SD ^25) and (140-22369-A-1-Y SD ^5)

Method 6010B: The sample duplicate (DUP) precision for preparation batch 140-48595 and analytical batch 140-49029 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision was within acceptance limits.

Methods 6010B, 6010B SEP: The following samples were diluted due to the presence of titanium which interferes with Cobalt: PZ-51S-40-45' (140-22369-1), (140-22369-A-1-B DU) and (140-22369-A-1-Z DU). Elevated reporting limits (RLs) are provided.

Method 6010B: The following samples were diluted due to the presence of Iron which interferes with Selenium: PZ-51S-40-45' (140-22369-1) and (140-22369-A-1-B DU). Elevated reporting limits (RLs) are provided.

Method 6010B: Due to sample matrix effect on the internal standard (ISTD), a dilution was required for the following samples: PZ-51S-40-45' (140-22369-1) and (140-22369-A-1-B DU). The internal standard was very high for the samples affected. The samples were reanalyzed at 1:1 and 1:5.

Methods 6010B, 6010B SEP: The following samples were diluted due to the nature of the sample matrix: PZ-51S-40-45' (140-22369-1), (140-22369-A-1-B DU) and (140-22369-A-1-Z DU). Elevated reporting limits (RLs) are provided for Aluminum.

Method 6010B SEP: The serial dilution performed for the following sample associated with batch 140-48970 was outside control limits: (140-22369-A-1-W SD ^5)

Method 6010B SEP: The following samples were diluted due to the presence of titanium which interferes with Cobalt: PZ-51S-40-45' (140-22369-1) and (140-22369-A-1-X DU). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
% Moisture: The samples were analyzed for percent moisture using SOP number KNOX-WC-0012 (based on Modified MCAWW 160.3

Job ID: 140-22369-1 (Continued)

Laboratory: Eurofins TestAmerica, Knoxville (Continued)

and SM2540B and on the percent moisture determinations described in methods 3540C and 3550B).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Sample Summary

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-22369-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
140-22369-1	PZ-51S-40-45'	Solid	03/19/21 09:21	03/20/21 09:40	

Client Sample ID: PZ-51S-40-45'

Date Collected: 03/19/21 09:21
Date Received: 03/20/21 09:40

Lab Sample ID: 140-22369-1

Matrix: Solid
Percent Solids: 96.1

Method: 6010B SEP - SEP Metals (ICP) - Step 1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		42	6.7	mg/Kg	☼	04/09/21 08:00	04/15/21 11:56	4
Beryllium	ND		1.0	0.32	mg/Kg	☼	04/09/21 08:00	04/15/21 11:56	4
Cadmium	ND		1.0	0.067	mg/Kg	☼	04/09/21 08:00	04/15/21 11:56	4
Cobalt	ND		10	0.19	mg/Kg	☼	04/09/21 08:00	04/15/21 11:56	4
Iron	ND		21	12	mg/Kg	☼	04/09/21 08:00	04/15/21 11:56	4
Lithium	ND		10	0.62	mg/Kg	☼	04/09/21 08:00	04/15/21 11:56	4
Manganese	**11**		3.1	0.13	mg/Kg	☼	04/09/21 08:00	04/15/21 11:56	4
Selenium	ND		2.1	0.71	mg/Kg	☼	04/09/21 08:00	04/15/21 11:56	4

Method: 6010B SEP - SEP Metals (ICP) - Step 2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**9.6**	**J**	31	5.0	mg/Kg	☼	04/12/21 08:00	04/15/21 12:26	3
Beryllium	ND		0.78	0.050	mg/Kg	☼	04/12/21 08:00	04/15/21 12:26	3
Cadmium	ND		0.78	0.034	mg/Kg	☼	04/12/21 08:00	04/15/21 12:26	3
Cobalt	ND		7.8	0.20	mg/Kg	☼	04/12/21 08:00	04/15/21 12:26	3
Iron	ND		16	9.0	mg/Kg	☼	04/12/21 08:00	04/15/21 12:26	3
Lithium	ND		7.8	0.47	mg/Kg	☼	04/12/21 08:00	04/15/21 12:26	3
Manganese	**4.3**		2.3	0.87	mg/Kg	☼	04/12/21 08:00	04/15/21 12:26	3
Selenium	ND		1.6	0.53	mg/Kg	☼	04/12/21 08:00	04/15/21 12:26	3

Method: 6010B SEP - SEP Metals (ICP) - Step 3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**100**		10	2.2	mg/Kg	☼	04/13/21 08:00	04/15/21 13:04	1
Beryllium	**0.055**	**J**	0.26	0.016	mg/Kg	☼	04/13/21 08:00	04/15/21 13:04	1
Cadmium	**0.015**	**J B**	0.26	0.011	mg/Kg	☼	04/13/21 08:00	04/15/21 13:04	1
Cobalt	**2.3**	**J**	2.6	0.047	mg/Kg	☼	04/13/21 08:00	04/15/21 13:04	1
Iron	**210**		5.2	3.0	mg/Kg	☼	04/13/21 08:00	04/15/21 13:04	1
Lithium	ND		2.6	0.16	mg/Kg	☼	04/13/21 08:00	04/15/21 13:04	1
Manganese	**85**	**B**	0.78	0.028	mg/Kg	☼	04/13/21 08:00	04/15/21 13:04	1
Selenium	ND		0.52	0.18	mg/Kg	☼	04/13/21 08:00	04/15/21 13:04	1

Method: 6010B SEP - SEP Metals (ICP) - Step 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**1700**		10	1.7	mg/Kg	☼	04/14/21 08:00	04/15/21 13:43	1
Beryllium	**0.44**		0.26	0.017	mg/Kg	☼	04/14/21 08:00	04/15/21 13:43	1
Cadmium	ND		0.26	0.011	mg/Kg	☼	04/14/21 08:00	04/15/21 13:43	1
Cobalt	**2.5**	**J**	2.6	0.055	mg/Kg	☼	04/14/21 08:00	04/15/21 13:43	1
Iron	**6400**		5.2	3.0	mg/Kg	☼	04/14/21 08:00	04/15/21 13:43	1
Lithium	**0.70**	**J**	2.6	0.16	mg/Kg	☼	04/14/21 08:00	04/15/21 13:43	1
Manganese	**120**		0.78	0.14	mg/Kg	☼	04/14/21 08:00	04/15/21 13:43	1
Selenium	**0.61**		0.52	0.49	mg/Kg	☼	04/14/21 08:00	04/15/21 13:43	1

Method: 6010B SEP - SEP Metals (ICP) - Step 5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**260**	**B**	160	24	mg/Kg	☼	04/16/21 08:00	04/19/21 13:44	5
Beryllium	ND		3.9	0.33	mg/Kg	☼	04/16/21 08:00	04/19/21 13:44	5
Cadmium	ND		3.9	0.17	mg/Kg	☼	04/16/21 08:00	04/19/21 13:44	5
Cobalt	ND		39	0.62	mg/Kg	☼	04/16/21 08:00	04/19/21 13:44	5
Iron	ND		78	46	mg/Kg	☼	04/16/21 08:00	04/19/21 13:44	5
Lithium	**5.0**	**J B**	39	2.3	mg/Kg	☼	04/16/21 08:00	04/19/21 13:44	5

Client Sample ID: PZ-51S-40-45'
Date Collected: 03/19/21 09:21
Date Received: 03/20/21 09:40

Lab Sample ID: 140-22369-1
Matrix: Solid
Percent Solids: 96.1

Method: 6010B SEP - SEP Metals (ICP) - Step 5 (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	ND		12	1.9	mg/Kg	☼	04/16/21 08:00	04/19/21 13:44	5
Selenium	ND		7.8	2.7	mg/Kg	☼	04/16/21 08:00	04/19/21 13:44	5

Method: 6010B SEP - SEP Metals (ICP) - Step 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**15000**		10	1.7	mg/Kg	☼	04/16/21 08:00	04/19/21 14:23	1
Beryllium	**0.22**	**J**	0.26	0.012	mg/Kg	☼	04/16/21 08:00	04/19/21 14:23	1
Cadmium	ND		0.26	0.011	mg/Kg	☼	04/16/21 08:00	04/19/21 14:23	1
Cobalt	**5.9**		5.2	0.096	mg/Kg	☼	04/16/21 08:00	04/19/21 14:40	2
Iron	**14000**		5.2	3.0	mg/Kg	☼	04/16/21 08:00	04/19/21 14:23	1
Li	**7.5**		2.6	0.16	mg/Kg	☼	04/16/21 08:00	04/19/21 14:23	1
Manganese	**170**		0.78	0.26	mg/Kg	☼	04/16/21 08:00	04/19/21 14:23	1
Selenium	**0.38**	**J**	0.52	0.18	mg/Kg	☼	04/16/21 08:00	04/19/21 14:23	1

Method: 6010B SEP - SEP Metals (ICP) - Step 7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**8600**	**B**	100	17	mg/Kg	☼	04/19/21 08:00	04/20/21 15:11	10
Beryllium	**0.44**		0.26	0.0078	mg/Kg	☼	04/19/21 08:00	04/20/21 15:49	1
Cadmium	ND		0.26	0.011	mg/Kg	☼	04/19/21 08:00	04/20/21 15:49	1
Cobalt	**6.4**	**J**	13	0.14	mg/Kg	☼	04/19/21 08:00	04/20/21 16:46	5
Iron	**18000**		5.2	4.3	mg/Kg	☼	04/19/21 08:00	04/20/21 15:49	1
Lithium	**1.7**	**J**	2.6	0.16	mg/Kg	☼	04/19/21 08:00	04/20/21 15:49	1
Manganese	**390**	**B**	0.78	0.11	mg/Kg	☼	04/19/21 08:00	04/20/21 15:49	1
Selenium	**0.67**		0.52	0.18	mg/Kg	☼	04/19/21 08:00	04/20/21 15:49	1

Method: 6010B SEP - SEP Metals (ICP) - Sum of Steps 1-7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**25000**		10	1.6	mg/Kg			04/21/21 13:55	1
Beryllium	**1.2**		0.25	0.0075	mg/Kg			04/21/21 13:55	1
Cadmium	**0.015**	**J**	0.25	0.011	mg/Kg			04/21/21 13:55	1
Cobalt	**17**		2.5	0.023	mg/Kg			04/21/21 13:55	1
Iron	**39000**		5.0	4.1	mg/Kg			04/21/21 13:55	1
Lithium	**15**		2.5	0.15	mg/Kg			04/21/21 13:55	1
Manganese	**780**		0.75	0.052	mg/Kg			04/21/21 13:55	1
Selenium	**1.7**		0.50	0.17	mg/Kg			04/21/21 13:55	1

Method: 6010B - SEP Metals (ICP) - Total

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**72000**		100	17	mg/Kg	☼	04/08/21 08:00	04/20/21 15:35	10
Beryllium	**1.2**		0.52	0.016	mg/Kg	☼	04/08/21 08:00	04/20/21 17:00	2
Cadmium	ND		1.3	0.057	mg/Kg	☼	04/08/21 08:00	04/20/21 17:15	5
Cobalt	**18**		13	0.14	mg/Kg	☼	04/08/21 08:00	04/20/21 17:15	5
Iron	**42000**		26	21	mg/Kg	☼	04/08/21 08:00	04/20/21 17:15	5
Lithium	**15**		13	0.78	mg/Kg	☼	04/08/21 08:00	04/20/21 17:15	5
Manganese	**660**		1.6	0.23	mg/Kg	☼	04/08/21 08:00	04/20/21 17:00	2
Selenium	**1.6**	**J**	2.6	0.88	mg/Kg	☼	04/08/21 08:00	04/20/21 17:15	5

Default Detection Limits

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-22369-1

Method: 6010B SEP - SEP Metals (ICP) - Step 1
Prep: 3010A
SEP: Exchangeable

Analyte	RL	MDL	Units
Aluminum	10	1.6	mg/Kg
Beryllium	0.25	0.077	mg/Kg
Cadmium	0.25	0.016	mg/Kg
Cobalt	2.5	0.045	mg/Kg
Iron	5.0	2.9	mg/Kg
Lithium	2.5	0.15	mg/Kg
Manganese	0.75	0.031	mg/Kg
Selenium	0.50	0.17	mg/Kg

Method: 6010B SEP - SEP Metals (ICP) - Step 2
Prep: 3010A
SEP: Carbonate

Analyte	RL	MDL	Units
Aluminum	10	1.6	mg/Kg
Beryllium	0.25	0.016	mg/Kg
Cadmium	0.25	0.011	mg/Kg
Cobalt	2.5	0.063	mg/Kg
Iron	5.0	2.9	mg/Kg
Lithium	2.5	0.15	mg/Kg
Manganese	0.75	0.28	mg/Kg
Selenium	0.50	0.17	mg/Kg

Method: 6010B SEP - SEP Metals (ICP) - Step 3
Prep: 3010A
SEP: Non-Crystalline

Analyte	RL	MDL	Units
Aluminum	10	2.1	mg/Kg
Beryllium	0.25	0.015	mg/Kg
Cadmium	0.25	0.011	mg/Kg
Cobalt	2.5	0.045	mg/Kg
Iron	5.0	2.9	mg/Kg
Lithium	2.5	0.15	mg/Kg
Manganese	0.75	0.027	mg/Kg
Selenium	0.50	0.17	mg/Kg

Method: 6010B SEP - SEP Metals (ICP) - Step 4
Prep: 3010A
SEP: Metal Hydroxide

Analyte	RL	MDL	Units
Aluminum	10	1.6	mg/Kg
Beryllium	0.25	0.016	mg/Kg
Cadmium	0.25	0.011	mg/Kg
Cobalt	2.5	0.053	mg/Kg
Iron	5.0	2.9	mg/Kg
Lithium	2.5	0.15	mg/Kg
Manganese	0.75	0.13	mg/Kg
Selenium	0.50	0.47	mg/Kg

Method: 6010B SEP - SEP Metals (ICP) - Step 5
Prep: 3010A

Default Detection Limits

Client: Golder Associates Inc.
Job ID: 140-22369-1
Project/Site: SCS Site, Plant Branch

Method: 6010B SEP - SEP Metals (ICP) - Step 5

Prep: 3010A

SEP: Organic-Bound

Analyte	RL	MDL	Units
Aluminum	30	4.7	mg/Kg
Beryllium	0.75	0.063	mg/Kg
Cadmium	0.75	0.032	mg/Kg
Cobalt	7.5	0.12	mg/Kg
Iron	15	8.8	mg/Kg
Lithium	7.5	0.44	mg/Kg
Manganese	2.3	0.37	mg/Kg
Selenium	1.5	0.52	mg/Kg

Method: 6010B SEP - SEP Metals (ICP) - Step 6

SEP: Acid/Sulfide

Analyte	RL	MDL	Units
Aluminum	10	1.6	mg/Kg
Beryllium	0.25	0.012	mg/Kg
Cadmium	0.25	0.011	mg/Kg
Cobalt	2.5	0.046	mg/Kg
Iron	5.0	2.9	mg/Kg
Li	2.5	0.15	mg/Kg
Manganese	0.75	0.25	mg/Kg
Selenium	0.50	0.17	mg/Kg

Method: 6010B SEP - SEP Metals (ICP) - Step 7

Prep: Residual

Analyte	RL	MDL	Units
Aluminum	10	1.6	mg/Kg
Beryllium	0.25	0.0075	mg/Kg
Cadmium	0.25	0.011	mg/Kg
Cobalt	2.5	0.026	mg/Kg
Iron	5.0	4.1	mg/Kg
Lithium	2.5	0.15	mg/Kg
Manganese	0.75	0.11	mg/Kg
Selenium	0.50	0.17	mg/Kg

Method: 6010B SEP - SEP Metals (ICP) - Sum of Steps 1-7

Analyte	RL	MDL	Units
Aluminum	10	1.6	mg/Kg
Beryllium	0.25	0.0075	mg/Kg
Cadmium	0.25	0.011	mg/Kg
Cobalt	2.5	0.023	mg/Kg
Iron	5.0	4.1	mg/Kg
Lithium	2.5	0.15	mg/Kg
Manganese	0.75	0.052	mg/Kg
Selenium	0.50	0.17	mg/Kg

Method: 6010B - SEP Metals (ICP) - Total

Prep: Total

Analyte	RL	MDL	Units
Aluminum	10	1.6	mg/Kg
Beryllium	0.25	0.0075	mg/Kg
Cadmium	0.25	0.011	mg/Kg

Default Detection Limits

Client: Golder Associates Inc.
Job ID: 140-22369-1
Project/Site: SCS Site, Plant Branch

Method: 6010B - SEP Metals (ICP) - Total (Continued)

Prep: Total

Analyte	RL	MDL	Units
Cobalt	2.5	0.026	mg/Kg
Iron	5.0	4.1	mg/Kg
Lithium	2.5	0.15	mg/Kg
Manganese	0.75	0.11	mg/Kg
Selenium	0.50	0.17	mg/Kg

Method: 6010B - SEP Metals (ICP) - Total

Lab Sample ID: MB 140-48595/3-A
Matrix: Solid
Analysis Batch: 49029

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 48595

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		10	1.6	mg/Kg		04/08/21 08:00	04/20/21 14:46	1
Beryllium	ND		0.25	0.0075	mg/Kg		04/08/21 08:00	04/20/21 14:46	1
Cadmium	ND		0.25	0.011	mg/Kg		04/08/21 08:00	04/20/21 14:46	1
Cobalt	ND		2.5	0.026	mg/Kg		04/08/21 08:00	04/20/21 14:46	1
Iron	ND		5.0	4.1	mg/Kg		04/08/21 08:00	04/20/21 14:46	1
Lithium	ND		2.5	0.15	mg/Kg		04/08/21 08:00	04/20/21 14:46	1
Manganese	ND		0.75	0.11	mg/Kg		04/08/21 08:00	04/20/21 14:46	1
Selenium	ND		0.50	0.17	mg/Kg		04/08/21 08:00	04/20/21 14:46	1

Lab Sample ID: LCS 140-48595/4-A
Matrix: Solid
Analysis Batch: 49029

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 48595

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	100	99.9		mg/Kg		100	80 - 120
Beryllium	2.50	2.51		mg/Kg		101	80 - 120
Cadmium	2.50	2.56		mg/Kg		102	80 - 125
Cobalt	5.00	5.11		mg/Kg		102	80 - 125
Iron	50.0	52.7		mg/Kg		105	80 - 120
Lithium	5.00	4.88		mg/Kg		98	80 - 120
Manganese	5.00	5.15		mg/Kg		103	80 - 120
Selenium	7.50	7.22		mg/Kg		96	80 - 120

Lab Sample ID: LCSD 140-48595/5-A
Matrix: Solid
Analysis Batch: 49029

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 48595

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	100	98.4		mg/Kg		98	80 - 120	1	30
Beryllium	2.50	2.49		mg/Kg		99	80 - 120	1	30
Cadmium	2.50	2.55		mg/Kg		102	80 - 125	0	30
Cobalt	5.00	5.09		mg/Kg		102	80 - 125	0	30
Iron	50.0	51.2		mg/Kg		102	80 - 120	3	30
Lithium	5.00	4.78		mg/Kg		96	80 - 120	2	30
Manganese	5.00	5.09		mg/Kg		102	80 - 120	1	30
Selenium	7.50	7.26		mg/Kg		97	80 - 120	0	30

Lab Sample ID: 140-22369-1 DU
Matrix: Solid
Analysis Batch: 49029

Client Sample ID: PZ-51S-40-45'
Prep Type: Total/NA
Prep Batch: 48595

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Aluminum	72000		70700		mg/Kg	☼	2	30

Method: 6010B - SEP Metals (ICP) - Total (Continued)

Lab Sample ID: 140-22369-1 DU
Matrix: Solid
Analysis Batch: 49029

Client Sample ID: PZ-51S-40-45'
Prep Type: Total/NA
Prep Batch: 48595

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Beryllium	1.2			1.18		mg/Kg	☼			2	30
Manganese	660			673		mg/Kg	☼			2	30

Lab Sample ID: 140-22369-1 DU
Matrix: Solid
Analysis Batch: 49029

Client Sample ID: PZ-51S-40-45'
Prep Type: Total/NA
Prep Batch: 48595

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Cadmium	ND			ND		mg/Kg	☼			NC	30
Cobalt	18			18.1		mg/Kg	☼			2	30
Iron	42000			42500		mg/Kg	☼			0.6	30
Lithium	15			14.9		mg/Kg	☼			0.5	30
Selenium	1.6	J		1.01	J F5	mg/Kg	☼			42	30

Method: 6010B SEP - SEP Metals (ICP)

Lab Sample ID: MB 140-48597/3-B ^4
Matrix: Solid
Analysis Batch: 48880

Client Sample ID: Method Blank
Prep Type: Step 1
Prep Batch: 48654

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		40	6.4	mg/Kg		04/09/21 08:00	04/15/21 11:42	4
Beryllium	ND		1.0	0.31	mg/Kg		04/09/21 08:00	04/15/21 11:42	4
Cadmium	ND		1.0	0.064	mg/Kg		04/09/21 08:00	04/15/21 11:42	4
Cobalt	ND		10	0.18	mg/Kg		04/09/21 08:00	04/15/21 11:42	4
Iron	ND		20	12	mg/Kg		04/09/21 08:00	04/15/21 11:42	4
Lithium	ND		10	0.60	mg/Kg		04/09/21 08:00	04/15/21 11:42	4
Manganese	ND		3.0	0.12	mg/Kg		04/09/21 08:00	04/15/21 11:42	4
Selenium	ND		2.0	0.68	mg/Kg		04/09/21 08:00	04/15/21 11:42	4

Lab Sample ID: LCS 140-48597/4-B ^5
Matrix: Solid
Analysis Batch: 48880

Client Sample ID: Lab Control Sample
Prep Type: Step 1
Prep Batch: 48654

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aluminum			100	100		mg/Kg		100	80 - 120		
Beryllium			2.50	2.57		mg/Kg		103	80 - 120		
Cadmium			2.50	2.41		mg/Kg		97	80 - 120		
Cobalt			5.00	4.91	J	mg/Kg		98	80 - 120		
Iron			50.0	52.6		mg/Kg		105	80 - 120		
Lithium			5.00	5.27	J	mg/Kg		105	80 - 120		
Manganese			5.00	5.13		mg/Kg		103	80 - 120		
Selenium			7.50	7.57		mg/Kg		101	80 - 120		

Lab Sample ID: LCSD 140-48597/5-B ^5
Matrix: Solid
Analysis Batch: 48880

Client Sample ID: Lab Control Sample Dup
Prep Type: Step 1
Prep Batch: 48654

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum			100	97.0		mg/Kg		97	80 - 120	3	30

Method: 6010B SEP - SEP Metals (ICP) (Continued)

Lab Sample ID: LCSD 140-48597/5-B ^5
Matrix: Solid
Analysis Batch: 48880

Client Sample ID: Lab Control Sample Dup
Prep Type: Step 1
Prep Batch: 48654

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Beryllium	2.50	2.61		mg/Kg		104	80 - 120	1	30
Cadmium	2.50	2.44		mg/Kg		98	80 - 120	1	30
Cobalt	5.00	4.90	J	mg/Kg		98	80 - 120	0	30
Iron	50.0	51.6		mg/Kg		103	80 - 120	2	30
Lithium	5.00	5.15	J	mg/Kg		103	80 - 120	2	30
Manganese	5.00	5.21		mg/Kg		104	80 - 120	2	30
Selenium	7.50	7.71		mg/Kg		103	80 - 120	2	30

Lab Sample ID: 140-22369-1 DU
Matrix: Solid
Analysis Batch: 48880

Client Sample ID: PZ-51S-40-45'
Prep Type: Step 1
Prep Batch: 48654

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Aluminum	ND		ND		mg/Kg	☼	NC	30
Beryllium	ND		ND		mg/Kg	☼	NC	30
Cadmium	ND		ND		mg/Kg	☼	NC	30
Cobalt	ND		ND		mg/Kg	☼	NC	30
Iron	ND		ND		mg/Kg	☼	NC	30
Lithium	ND		ND		mg/Kg	☼	NC	30
Manganese	11		11.3		mg/Kg	☼	3	30
Selenium	ND		ND		mg/Kg	☼	NC	30

Lab Sample ID: MB 140-48655/3-B ^3
Matrix: Solid
Analysis Batch: 48880

Client Sample ID: Method Blank
Prep Type: Step 2
Prep Batch: 48695

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		30	4.8	mg/Kg		04/12/21 08:00	04/15/21 12:11	3
Beryllium	ND		0.75	0.048	mg/Kg		04/12/21 08:00	04/15/21 12:11	3
Cadmium	ND		0.75	0.033	mg/Kg		04/12/21 08:00	04/15/21 12:11	3
Cobalt	ND		7.5	0.19	mg/Kg		04/12/21 08:00	04/15/21 12:11	3
Iron	ND		15	8.7	mg/Kg		04/12/21 08:00	04/15/21 12:11	3
Lithium	ND		7.5	0.45	mg/Kg		04/12/21 08:00	04/15/21 12:11	3
Manganese	ND		2.3	0.84	mg/Kg		04/12/21 08:00	04/15/21 12:11	3
Selenium	ND		1.5	0.51	mg/Kg		04/12/21 08:00	04/15/21 12:11	3

Lab Sample ID: LCS 140-48655/4-B ^5
Matrix: Solid
Analysis Batch: 48880

Client Sample ID: Lab Control Sample
Prep Type: Step 2
Prep Batch: 48695

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	100	ND		mg/Kg		-4	
Beryllium	2.50	1.27	J	mg/Kg		51	40 - 70
Cadmium	2.50	2.27		mg/Kg		91	80 - 120
Cobalt	5.00	4.46	J	mg/Kg		89	80 - 120
Iron	50.0	ND		mg/Kg		2	
Lithium	5.00	4.57	J	mg/Kg		91	80 - 120
Manganese	5.00	4.67		mg/Kg		93	80 - 120
Selenium	7.50	6.78		mg/Kg		90	70 - 120

Method: 6010B SEP - SEP Metals (ICP) (Continued)

Lab Sample ID: LCSD 140-48655/5-B ^5
Matrix: Solid
Analysis Batch: 48880

Client Sample ID: Lab Control Sample Dup
Prep Type: Step 2
Prep Batch: 48695

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum			100	ND		mg/Kg		-4		4	
Beryllium			2.50	1.22	J	mg/Kg		49	40 - 70	4	30
Cadmium			2.50	2.19		mg/Kg		88	80 - 120	4	30
Cobalt			5.00	4.32	J	mg/Kg		86	80 - 120	3	30
Iron			50.0	ND		mg/Kg		4		52	
Lithium			5.00	4.56	J	mg/Kg		91	80 - 120	0	30
Manganese			5.00	4.54		mg/Kg		91	80 - 120	3	30
Selenium			7.50	5.46		mg/Kg		73	70 - 120	22	30

Lab Sample ID: 140-22369-1 DU
Matrix: Solid
Analysis Batch: 48880

Client Sample ID: PZ-51S-40-45'
Prep Type: Step 2
Prep Batch: 48695

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Aluminum	9.6	J		8.45	J	mg/Kg	☼			12	
Beryllium	ND			ND		mg/Kg	☼			NC	30
Cadmium	ND			ND		mg/Kg	☼			NC	30
Cobalt	ND			ND		mg/Kg	☼			NC	30
Iron	ND			ND		mg/Kg	☼			NC	
Lithium	ND			0.541	J	mg/Kg	☼			NC	30
Manganese	4.3			4.41		mg/Kg	☼			2	30
Selenium	ND			ND		mg/Kg	☼			NC	30

Lab Sample ID: MB 140-48696/3-B
Matrix: Solid
Analysis Batch: 48880

Client Sample ID: Method Blank
Prep Type: Step 3
Prep Batch: 48739

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		10	2.1	mg/Kg		04/13/21 08:00	04/15/21 12:50	1
Beryllium	ND		0.25	0.015	mg/Kg		04/13/21 08:00	04/15/21 12:50	1
Cadmium	0.0685	J	0.25	0.011	mg/Kg		04/13/21 08:00	04/15/21 12:50	1
Cobalt	ND		2.5	0.045	mg/Kg		04/13/21 08:00	04/15/21 12:50	1
Iron	ND		5.0	2.9	mg/Kg		04/13/21 08:00	04/15/21 12:50	1
Lithium	ND		2.5	0.15	mg/Kg		04/13/21 08:00	04/15/21 12:50	1
Manganese	0.112	J	0.75	0.027	mg/Kg		04/13/21 08:00	04/15/21 12:50	1
Selenium	ND		0.50	0.17	mg/Kg		04/13/21 08:00	04/15/21 12:50	1

Lab Sample ID: LCS 140-48696/4-B
Matrix: Solid
Analysis Batch: 48880

Client Sample ID: Lab Control Sample
Prep Type: Step 3
Prep Batch: 48739

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aluminum			100	96.2		mg/Kg		96	80 - 120		
Beryllium			2.50	2.53		mg/Kg		101	80 - 120		
Cadmium			2.50	0.656		mg/Kg		26	10 - 120		
Cobalt			5.00	4.82		mg/Kg		96	80 - 120		
Iron			50.0	49.8		mg/Kg		100	80 - 120		
Lithium			5.00	4.72		mg/Kg		94	80 - 120		
Manganese			5.00	5.13		mg/Kg		103	80 - 120		

Method: 6010B SEP - SEP Metals (ICP) (Continued)

Lab Sample ID: LCS 140-48696/4-B
Matrix: Solid
Analysis Batch: 48880

Client Sample ID: Lab Control Sample
Prep Type: Step 3
Prep Batch: 48739

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Selenium			7.50	7.16		mg/Kg		95	80 - 120		

Lab Sample ID: LCSD 140-48696/5-B
Matrix: Solid
Analysis Batch: 48880

Client Sample ID: Lab Control Sample Dup
Prep Type: Step 3
Prep Batch: 48739

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum			100	95.4		mg/Kg		95	80 - 120	1	30
Beryllium			2.50	2.52		mg/Kg		101	80 - 120	1	30
Cadmium			2.50	0.649		mg/Kg		26	10 - 120	1	30
Cobalt			5.00	4.78		mg/Kg		96	80 - 120	1	30
Iron			50.0	49.2		mg/Kg		98	80 - 120	1	30
Lithium			5.00	4.69		mg/Kg		94	80 - 120	1	30
Manganese			5.00	4.94		mg/Kg		99	80 - 120	4	30
Selenium			7.50	7.04		mg/Kg		94	80 - 120	2	30

Lab Sample ID: 140-22369-1 DU
Matrix: Solid
Analysis Batch: 48880

Client Sample ID: PZ-51S-40-45'
Prep Type: Step 3
Prep Batch: 48739

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Aluminum	100			105		mg/Kg	☼			3	30
Beryllium	0.055	J		0.0541	J	mg/Kg	☼			1	30
Cadmium	0.015	J B		0.0161	J	mg/Kg	☼			7	30
Cobalt	2.3	J		2.31	J	mg/Kg	☼			0.5	30
Iron	210			204		mg/Kg	☼			0.6	30
Lithium	ND			ND		mg/Kg	☼			NC	30
Manganese	85	B		84.5		mg/Kg	☼			0.4	30
Selenium	ND			ND		mg/Kg	☼			NC	30

Lab Sample ID: MB 140-48740/3-B
Matrix: Solid
Analysis Batch: 48880

Client Sample ID: Method Blank
Prep Type: Step 4
Prep Batch: 48783

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		10	1.6	mg/Kg		04/14/21 08:00	04/15/21 13:29	1
Beryllium	ND		0.25	0.016	mg/Kg		04/14/21 08:00	04/15/21 13:29	1
Cadmium	ND		0.25	0.011	mg/Kg		04/14/21 08:00	04/15/21 13:29	1
Cobalt	ND		2.5	0.053	mg/Kg		04/14/21 08:00	04/15/21 13:29	1
Iron	ND		5.0	2.9	mg/Kg		04/14/21 08:00	04/15/21 13:29	1
Lithium	ND		2.5	0.15	mg/Kg		04/14/21 08:00	04/15/21 13:29	1
Manganese	ND		0.75	0.13	mg/Kg		04/14/21 08:00	04/15/21 13:29	1
Selenium	ND		0.50	0.47	mg/Kg		04/14/21 08:00	04/15/21 13:29	1

Lab Sample ID: LCS 140-48740/4-B
Matrix: Solid
Analysis Batch: 48880

Client Sample ID: Lab Control Sample
Prep Type: Step 4
Prep Batch: 48783

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aluminum			100	96.3		mg/Kg		96	80 - 120		

Method: 6010B SEP - SEP Metals (ICP) (Continued)

Lab Sample ID: LCS 140-48740/4-B
Matrix: Solid
Analysis Batch: 48880

Client Sample ID: Lab Control Sample
Prep Type: Step 4
Prep Batch: 48783

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Beryllium	2.50	2.59		mg/Kg		103	80 - 120
Cadmium	2.50	2.47		mg/Kg		99	80 - 120
Cobalt	5.00	4.93		mg/Kg		99	80 - 120
Iron	50.0	49.9		mg/Kg		100	80 - 120
Lithium	5.00	4.80		mg/Kg		96	80 - 120
Manganese	5.00	5.02		mg/Kg		100	80 - 120
Selenium	7.50	ND		mg/Kg		4	

Lab Sample ID: LCSD 140-48740/5-B
Matrix: Solid
Analysis Batch: 48880

Client Sample ID: Lab Control Sample Dup
Prep Type: Step 4
Prep Batch: 48783

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	100	97.2		mg/Kg		97	80 - 120	1	30
Beryllium	2.50	2.59		mg/Kg		104	80 - 120	0	30
Cadmium	2.50	2.45		mg/Kg		98	80 - 120	1	30
Cobalt	5.00	4.88		mg/Kg		98	80 - 120	1	30
Iron	50.0	50.0		mg/Kg		100	80 - 120	0	30
Lithium	5.00	4.84		mg/Kg		97	80 - 120	1	30
Manganese	5.00	5.16		mg/Kg		103	80 - 120	3	30
Selenium	7.50	ND		mg/Kg		5		16	

Lab Sample ID: 140-22369-1 DU
Matrix: Solid
Analysis Batch: 48880

Client Sample ID: PZ-51S-40-45'
Prep Type: Step 4
Prep Batch: 48783

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Aluminum	1700		1740		mg/Kg	☼	2	30
Beryllium	0.44		0.442		mg/Kg	☼	0.6	30
Cadmium	ND		ND		mg/Kg	☼	NC	30
Cobalt	2.5	J	2.38	J	mg/Kg	☼	6	30
Iron	6400		6410		mg/Kg	☼	0.2	30
Lithium	0.70	J	0.642	J	mg/Kg	☼	9	30
Manganese	120		112		mg/Kg	☼	7	30
Selenium	0.61		ND		mg/Kg	☼	NC	

Lab Sample ID: MB 140-48784/3-B ^5
Matrix: Solid
Analysis Batch: 48970

Client Sample ID: Method Blank
Prep Type: Step 5
Prep Batch: 48867

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	33.2	J	150	24	mg/Kg		04/16/21 08:00	04/19/21 13:29	5
Beryllium	ND		3.8	0.32	mg/Kg		04/16/21 08:00	04/19/21 13:29	5
Cadmium	ND		3.8	0.16	mg/Kg		04/16/21 08:00	04/19/21 13:29	5
Cobalt	ND		38	0.60	mg/Kg		04/16/21 08:00	04/19/21 13:29	5
Iron	ND		75	44	mg/Kg		04/16/21 08:00	04/19/21 13:29	5
Lithium	5.37	J	38	2.2	mg/Kg		04/16/21 08:00	04/19/21 13:29	5
Manganese	ND		11	1.9	mg/Kg		04/16/21 08:00	04/19/21 13:29	5
Selenium	ND		7.5	2.6	mg/Kg		04/16/21 08:00	04/19/21 13:29	5

Method: 6010B SEP - SEP Metals (ICP) (Continued)

Lab Sample ID: LCS 140-48784/4-B ^5
Matrix: Solid
Analysis Batch: 48970

Client Sample ID: Lab Control Sample
Prep Type: Step 5
Prep Batch: 48867

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	300	48.5	J	mg/Kg		16	
Beryllium	7.50	3.37	J	mg/Kg		45	40 - 70
Cadmium	7.50	7.15		mg/Kg		95	80 - 130
Cobalt	15.0	2.64	J	mg/Kg		18	1 - 60
Iron	150	ND		mg/Kg		1	
Lithium	15.0	18.3	J	mg/Kg		122	80 - 150
Manganese	15.0	2.69	J	mg/Kg		18	1 - 60
Selenium	22.5	21.7		mg/Kg		96	80 - 140

Lab Sample ID: LCSD 140-48784/5-B ^5
Matrix: Solid
Analysis Batch: 48970

Client Sample ID: Lab Control Sample Dup
Prep Type: Step 5
Prep Batch: 48867

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	300	30.4	J	mg/Kg		10		46	
Beryllium	7.50	3.35	J	mg/Kg		45	40 - 70	1	30
Cadmium	7.50	7.18		mg/Kg		96	80 - 130	0	30
Cobalt	15.0	2.71	J	mg/Kg		18	1 - 60	3	30
Iron	150	ND		mg/Kg		5		127	
Lithium	15.0	17.9	J	mg/Kg		119	80 - 150	2	30
Manganese	15.0	2.84	J	mg/Kg		19	1 - 60	5	30
Selenium	22.5	21.6		mg/Kg		96	80 - 140	0	30

Lab Sample ID: 140-22369-1 DU
Matrix: Solid
Analysis Batch: 48970

Client Sample ID: PZ-51S-40-45'
Prep Type: Step 5
Prep Batch: 48867

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Aluminum	260	B	238		mg/Kg	☼	8	
Beryllium	ND		ND		mg/Kg	☼	NC	30
Cadmium	ND		ND		mg/Kg	☼	NC	30
Cobalt	ND		ND		mg/Kg	☼	NC	30
Iron	ND		ND		mg/Kg	☼	NC	
Lithium	5.0	J B	5.13	J	mg/Kg	☼	3	30
Manganese	ND		ND		mg/Kg	☼	NC	30
Selenium	ND		ND		mg/Kg	☼	NC	30

Lab Sample ID: MB 140-48875/3-A
Matrix: Solid
Analysis Batch: 48970

Client Sample ID: Method Blank
Prep Type: Step 6
Prep Batch: 48875

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		10	1.6	mg/Kg		04/16/21 08:00	04/19/21 14:09	1
Beryllium	ND		0.25	0.012	mg/Kg		04/16/21 08:00	04/19/21 14:09	1
Cadmium	ND		0.25	0.011	mg/Kg		04/16/21 08:00	04/19/21 14:09	1
Cobalt	ND		2.5	0.046	mg/Kg		04/16/21 08:00	04/19/21 14:09	1
Iron	ND		5.0	2.9	mg/Kg		04/16/21 08:00	04/19/21 14:09	1
Li	ND		2.5	0.15	mg/Kg		04/16/21 08:00	04/19/21 14:09	1
Manganese	ND		0.75	0.25	mg/Kg		04/16/21 08:00	04/19/21 14:09	1

Method: 6010B SEP - SEP Metals (ICP) (Continued)

Lab Sample ID: MB 140-48875/3-A
Matrix: Solid
Analysis Batch: 48970

Client Sample ID: Method Blank
Prep Type: Step 6
Prep Batch: 48875

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		0.50	0.17	mg/Kg		04/16/21 08:00	04/19/21 14:09	1

Lab Sample ID: LCS 140-48875/4-A
Matrix: Solid
Analysis Batch: 48970

Client Sample ID: Lab Control Sample
Prep Type: Step 6
Prep Batch: 48875

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	100	99.7		mg/Kg		100	80 - 120
Beryllium	2.50	2.62		mg/Kg		105	80 - 120
Cadmium	2.50	2.51		mg/Kg		100	80 - 120
Cobalt	5.00	4.93		mg/Kg		99	80 - 120
Iron	50.0	50.1		mg/Kg		100	80 - 120
Li	5.00	4.78		mg/Kg		96	80 - 120
Manganese	5.00	5.07		mg/Kg		101	80 - 120
Selenium	7.50	7.42		mg/Kg		99	80 - 120

Lab Sample ID: LCSD 140-48875/5-A
Matrix: Solid
Analysis Batch: 48970

Client Sample ID: Lab Control Sample Dup
Prep Type: Step 6
Prep Batch: 48875

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	100	97.2		mg/Kg		97	80 - 120	3	30
Beryllium	2.50	2.54		mg/Kg		102	80 - 120	3	30
Cadmium	2.50	2.43		mg/Kg		97	80 - 120	3	30
Cobalt	5.00	4.76		mg/Kg		95	80 - 120	3	30
Iron	50.0	48.6		mg/Kg		97	80 - 120	3	30
Li	5.00	4.60		mg/Kg		92	80 - 120	4	30
Manganese	5.00	4.92		mg/Kg		98	80 - 120	3	30
Selenium	7.50	7.11		mg/Kg		95	80 - 120	4	30

Lab Sample ID: 140-22369-1 DU
Matrix: Solid
Analysis Batch: 48970

Client Sample ID: PZ-51S-40-45'
Prep Type: Step 6
Prep Batch: 48875

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Aluminum	15000		14000		mg/Kg	☼	5	30
Beryllium	0.22	J	0.210	J	mg/Kg	☼	5	30
Cadmium	ND		ND		mg/Kg	☼	NC	30
Iron	14000		13900		mg/Kg	☼	2	30
Li	7.5		7.55		mg/Kg	☼	1	30
Manganese	170		166		mg/Kg	☼	3	30
Selenium	0.38	J	0.434	J	mg/Kg	☼	14	30

Lab Sample ID: 140-22369-1 DU
Matrix: Solid
Analysis Batch: 48970

Client Sample ID: PZ-51S-40-45'
Prep Type: Step 6
Prep Batch: 48875

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Cobalt	5.9		5.81		mg/Kg	☼	1	30

Method: 6010B SEP - SEP Metals (ICP) (Continued)

Lab Sample ID: MB 140-48911/3-A
Matrix: Solid
Analysis Batch: 49029

Client Sample ID: Method Blank
Prep Type: Step 7
Prep Batch: 48911

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1.75	J	10	1.6	mg/Kg		04/19/21 08:00	04/20/21 14:32	1
Beryllium	ND		0.25	0.0075	mg/Kg		04/19/21 08:00	04/20/21 14:32	1
Cadmium	ND		0.25	0.011	mg/Kg		04/19/21 08:00	04/20/21 14:32	1
Cobalt	ND		2.5	0.026	mg/Kg		04/19/21 08:00	04/20/21 14:32	1
Iron	ND		5.0	4.1	mg/Kg		04/19/21 08:00	04/20/21 14:32	1
Lithium	ND		2.5	0.15	mg/Kg		04/19/21 08:00	04/20/21 14:32	1
Manganese	0.139	J	0.75	0.11	mg/Kg		04/19/21 08:00	04/20/21 14:32	1
Selenium	ND		0.50	0.17	mg/Kg		04/19/21 08:00	04/20/21 14:32	1

Lab Sample ID: LCS 140-48911/4-A
Matrix: Solid
Analysis Batch: 49029

Client Sample ID: Lab Control Sample
Prep Type: Step 7
Prep Batch: 48911

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	100	100		mg/Kg		100	80 - 120
Beryllium	2.50	2.51		mg/Kg		100	80 - 120
Cadmium	2.50	2.56		mg/Kg		102	80 - 125
Cobalt	5.00	5.10		mg/Kg		102	80 - 125
Iron	50.0	52.8		mg/Kg		106	80 - 120
Lithium	5.00	4.83		mg/Kg		97	80 - 120
Manganese	5.00	5.15		mg/Kg		103	80 - 120
Selenium	7.50	7.26		mg/Kg		97	80 - 120

Lab Sample ID: LCSD 140-48911/5-A
Matrix: Solid
Analysis Batch: 49029

Client Sample ID: Lab Control Sample Dup
Prep Type: Step 7
Prep Batch: 48911

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	100	99.4		mg/Kg		99	80 - 120	1	30
Beryllium	2.50	2.49		mg/Kg		100	80 - 120	1	30
Cadmium	2.50	2.55		mg/Kg		102	80 - 125	0	30
Cobalt	5.00	5.07		mg/Kg		101	80 - 125	1	30
Iron	50.0	51.5		mg/Kg		103	80 - 120	2	30
Lithium	5.00	4.74		mg/Kg		95	80 - 120	2	30
Manganese	5.00	5.15		mg/Kg		103	80 - 120	0	30
Selenium	7.50	7.16		mg/Kg		95	80 - 120	1	30

Lab Sample ID: 140-22369-1 DU
Matrix: Solid
Analysis Batch: 49029

Client Sample ID: PZ-51S-40-45'
Prep Type: Step 7
Prep Batch: 48911

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Aluminum	8600	B	7880		mg/Kg	☼	9	30

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-22369-1

Method: 6010B SEP - SEP Metals (ICP) (Continued)

Lab Sample ID: 140-22369-1 DU
Matrix: Solid
Analysis Batch: 49029

Client Sample ID: PZ-51S-40-45'
Prep Type: Step 7
Prep Batch: 48911

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Beryllium	0.44			0.519		mg/Kg	☼			17	30
Cadmium	ND			ND		mg/Kg	☼			NC	30
Iron	18000			17900		mg/Kg	☼			0.5	30
Lithium	1.7	J		1.46	J	mg/Kg	☼			14	30
Manganese	390	B		392		mg/Kg	☼			2	30
Selenium	0.67			0.614		mg/Kg	☼			9	30

Lab Sample ID: 140-22369-1 DU
Matrix: Solid
Analysis Batch: 49029

Client Sample ID: PZ-51S-40-45'
Prep Type: Step 7
Prep Batch: 48911

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Cobalt	6.4	J		6.43	J	mg/Kg	☼			0.2	30

Metals

Prep Batch: 48595

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-22369-1	PZ-51S-40-45'	Total/NA	Solid	Total	
MB 140-48595/3-A	Method Blank	Total/NA	Solid	Total	
LCS 140-48595/4-A	Lab Control Sample	Total/NA	Solid	Total	
LCSD 140-48595/5-A	Lab Control Sample Dup	Total/NA	Solid	Total	
140-22369-1 DU	PZ-51S-40-45'	Total/NA	Solid	Total	

SEP Batch: 48597

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-22369-1	PZ-51S-40-45'	Step 1	Solid	Exchangeable	
MB 140-48597/3-B ^4	Method Blank	Step 1	Solid	Exchangeable	
LCS 140-48597/4-B ^5	Lab Control Sample	Step 1	Solid	Exchangeable	
LCSD 140-48597/5-B ^5	Lab Control Sample Dup	Step 1	Solid	Exchangeable	
140-22369-1 DU	PZ-51S-40-45'	Step 1	Solid	Exchangeable	

Prep Batch: 48654

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-22369-1	PZ-51S-40-45'	Step 1	Solid	3010A	48597
MB 140-48597/3-B ^4	Method Blank	Step 1	Solid	3010A	48597
LCS 140-48597/4-B ^5	Lab Control Sample	Step 1	Solid	3010A	48597
LCSD 140-48597/5-B ^5	Lab Control Sample Dup	Step 1	Solid	3010A	48597
140-22369-1 DU	PZ-51S-40-45'	Step 1	Solid	3010A	48597

SEP Batch: 48655

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-22369-1	PZ-51S-40-45'	Step 2	Solid	Carbonate	
MB 140-48655/3-B ^3	Method Blank	Step 2	Solid	Carbonate	
LCS 140-48655/4-B ^5	Lab Control Sample	Step 2	Solid	Carbonate	
LCSD 140-48655/5-B ^5	Lab Control Sample Dup	Step 2	Solid	Carbonate	
140-22369-1 DU	PZ-51S-40-45'	Step 2	Solid	Carbonate	

Prep Batch: 48695

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-22369-1	PZ-51S-40-45'	Step 2	Solid	3010A	48655
MB 140-48655/3-B ^3	Method Blank	Step 2	Solid	3010A	48655
LCS 140-48655/4-B ^5	Lab Control Sample	Step 2	Solid	3010A	48655
LCSD 140-48655/5-B ^5	Lab Control Sample Dup	Step 2	Solid	3010A	48655
140-22369-1 DU	PZ-51S-40-45'	Step 2	Solid	3010A	48655

SEP Batch: 48696

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-22369-1	PZ-51S-40-45'	Step 3	Solid	Non-Crystalline	
MB 140-48696/3-B	Method Blank	Step 3	Solid	Non-Crystalline	
LCS 140-48696/4-B	Lab Control Sample	Step 3	Solid	Non-Crystalline	
LCSD 140-48696/5-B	Lab Control Sample Dup	Step 3	Solid	Non-Crystalline	
140-22369-1 DU	PZ-51S-40-45'	Step 3	Solid	Non-Crystalline	

Prep Batch: 48739

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-22369-1	PZ-51S-40-45'	Step 3	Solid	3010A	48696
MB 140-48696/3-B	Method Blank	Step 3	Solid	3010A	48696
LCS 140-48696/4-B	Lab Control Sample	Step 3	Solid	3010A	48696

Metals (Continued)

Prep Batch: 48739 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 140-48696/5-B	Lab Control Sample Dup	Step 3	Solid	3010A	48696
140-22369-1 DU	PZ-51S-40-45'	Step 3	Solid	3010A	48696

SEP Batch: 48740

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-22369-1	PZ-51S-40-45'	Step 4	Solid	Metal Hydroxide	
MB 140-48740/3-B	Method Blank	Step 4	Solid	Metal Hydroxide	
LCS 140-48740/4-B	Lab Control Sample	Step 4	Solid	Metal Hydroxide	
LCSD 140-48740/5-B	Lab Control Sample Dup	Step 4	Solid	Metal Hydroxide	
140-22369-1 DU	PZ-51S-40-45'	Step 4	Solid	Metal Hydroxide	

Prep Batch: 48783

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-22369-1	PZ-51S-40-45'	Step 4	Solid	3010A	48740
MB 140-48740/3-B	Method Blank	Step 4	Solid	3010A	48740
LCS 140-48740/4-B	Lab Control Sample	Step 4	Solid	3010A	48740
LCSD 140-48740/5-B	Lab Control Sample Dup	Step 4	Solid	3010A	48740
140-22369-1 DU	PZ-51S-40-45'	Step 4	Solid	3010A	48740

SEP Batch: 48784

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-22369-1	PZ-51S-40-45'	Step 5	Solid	Organic-Bound	
MB 140-48784/3-B ^5	Method Blank	Step 5	Solid	Organic-Bound	
LCS 140-48784/4-B ^5	Lab Control Sample	Step 5	Solid	Organic-Bound	
LCSD 140-48784/5-B ^5	Lab Control Sample Dup	Step 5	Solid	Organic-Bound	
140-22369-1 DU	PZ-51S-40-45'	Step 5	Solid	Organic-Bound	

Prep Batch: 48867

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-22369-1	PZ-51S-40-45'	Step 5	Solid	3010A	48784
MB 140-48784/3-B ^5	Method Blank	Step 5	Solid	3010A	48784
LCS 140-48784/4-B ^5	Lab Control Sample	Step 5	Solid	3010A	48784
LCSD 140-48784/5-B ^5	Lab Control Sample Dup	Step 5	Solid	3010A	48784
140-22369-1 DU	PZ-51S-40-45'	Step 5	Solid	3010A	48784

SEP Batch: 48875

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-22369-1	PZ-51S-40-45'	Step 6	Solid	Acid/Sulfide	
MB 140-48875/3-A	Method Blank	Step 6	Solid	Acid/Sulfide	
LCS 140-48875/4-A	Lab Control Sample	Step 6	Solid	Acid/Sulfide	
LCSD 140-48875/5-A	Lab Control Sample Dup	Step 6	Solid	Acid/Sulfide	
140-22369-1 DU	PZ-51S-40-45'	Step 6	Solid	Acid/Sulfide	

Analysis Batch: 48880

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-22369-1	PZ-51S-40-45'	Step 1	Solid	6010B SEP	48654
140-22369-1	PZ-51S-40-45'	Step 2	Solid	6010B SEP	48695
140-22369-1	PZ-51S-40-45'	Step 3	Solid	6010B SEP	48739
140-22369-1	PZ-51S-40-45'	Step 4	Solid	6010B SEP	48783
MB 140-48597/3-B ^4	Method Blank	Step 1	Solid	6010B SEP	48654
MB 140-48655/3-B ^3	Method Blank	Step 2	Solid	6010B SEP	48695

Metals (Continued)

Analysis Batch: 48880 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 140-48696/3-B	Method Blank	Step 3	Solid	6010B SEP	48739
MB 140-48740/3-B	Method Blank	Step 4	Solid	6010B SEP	48783
LCS 140-48597/4-B ^5	Lab Control Sample	Step 1	Solid	6010B SEP	48654
LCS 140-48655/4-B ^5	Lab Control Sample	Step 2	Solid	6010B SEP	48695
LCS 140-48696/4-B	Lab Control Sample	Step 3	Solid	6010B SEP	48739
LCS 140-48740/4-B	Lab Control Sample	Step 4	Solid	6010B SEP	48783
LCSD 140-48597/5-B ^5	Lab Control Sample Dup	Step 1	Solid	6010B SEP	48654
LCSD 140-48655/5-B ^5	Lab Control Sample Dup	Step 2	Solid	6010B SEP	48695
LCSD 140-48696/5-B	Lab Control Sample Dup	Step 3	Solid	6010B SEP	48739
LCSD 140-48740/5-B	Lab Control Sample Dup	Step 4	Solid	6010B SEP	48783
140-22369-1 DU	PZ-51S-40-45'	Step 1	Solid	6010B SEP	48654
140-22369-1 DU	PZ-51S-40-45'	Step 2	Solid	6010B SEP	48695
140-22369-1 DU	PZ-51S-40-45'	Step 3	Solid	6010B SEP	48739
140-22369-1 DU	PZ-51S-40-45'	Step 4	Solid	6010B SEP	48783

Prep Batch: 48911

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-22369-1	PZ-51S-40-45'	Step 7	Solid	Residual	
MB 140-48911/3-A	Method Blank	Step 7	Solid	Residual	
LCS 140-48911/4-A	Lab Control Sample	Step 7	Solid	Residual	
LCSD 140-48911/5-A	Lab Control Sample Dup	Step 7	Solid	Residual	
140-22369-1 DU	PZ-51S-40-45'	Step 7	Solid	Residual	

Analysis Batch: 48970

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-22369-1	PZ-51S-40-45'	Step 5	Solid	6010B SEP	48867
140-22369-1	PZ-51S-40-45'	Step 6	Solid	6010B SEP	48875
140-22369-1	PZ-51S-40-45'	Step 6	Solid	6010B SEP	48875
MB 140-48784/3-B ^5	Method Blank	Step 5	Solid	6010B SEP	48867
MB 140-48875/3-A	Method Blank	Step 6	Solid	6010B SEP	48875
LCS 140-48784/4-B ^5	Lab Control Sample	Step 5	Solid	6010B SEP	48867
LCS 140-48875/4-A	Lab Control Sample	Step 6	Solid	6010B SEP	48875
LCSD 140-48784/5-B ^5	Lab Control Sample Dup	Step 5	Solid	6010B SEP	48867
LCSD 140-48875/5-A	Lab Control Sample Dup	Step 6	Solid	6010B SEP	48875
140-22369-1 DU	PZ-51S-40-45'	Step 5	Solid	6010B SEP	48867
140-22369-1 DU	PZ-51S-40-45'	Step 6	Solid	6010B SEP	48875
140-22369-1 DU	PZ-51S-40-45'	Step 6	Solid	6010B SEP	48875

Analysis Batch: 49029

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-22369-1	PZ-51S-40-45'	Step 7	Solid	6010B SEP	48911
140-22369-1	PZ-51S-40-45'	Step 7	Solid	6010B SEP	48911
140-22369-1	PZ-51S-40-45'	Step 7	Solid	6010B SEP	48911
140-22369-1	PZ-51S-40-45'	Total/NA	Solid	6010B	48595
140-22369-1	PZ-51S-40-45'	Total/NA	Solid	6010B	48595
140-22369-1	PZ-51S-40-45'	Total/NA	Solid	6010B	48595
MB 140-48595/3-A	Method Blank	Total/NA	Solid	6010B	48595
MB 140-48911/3-A	Method Blank	Step 7	Solid	6010B SEP	48911
LCS 140-48595/4-A	Lab Control Sample	Total/NA	Solid	6010B	48595
LCS 140-48911/4-A	Lab Control Sample	Step 7	Solid	6010B SEP	48911
LCSD 140-48595/5-A	Lab Control Sample Dup	Total/NA	Solid	6010B	48595

Metals (Continued)

Analysis Batch: 49029 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 140-48911/5-A	Lab Control Sample Dup	Step 7	Solid	6010B SEP	48911
140-22369-1 DU	PZ-51S-40-45'	Step 7	Solid	6010B SEP	48911
140-22369-1 DU	PZ-51S-40-45'	Step 7	Solid	6010B SEP	48911
140-22369-1 DU	PZ-51S-40-45'	Step 7	Solid	6010B SEP	48911
140-22369-1 DU	PZ-51S-40-45'	Total/NA	Solid	6010B	48595
140-22369-1 DU	PZ-51S-40-45'	Total/NA	Solid	6010B	48595
140-22369-1 DU	PZ-51S-40-45'	Total/NA	Solid	6010B	48595

Analysis Batch: 49056

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-22369-1	PZ-51S-40-45'	Sum of Steps 1-7	Solid	6010B SEP	

General Chemistry

Analysis Batch: 48557

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-22369-1	PZ-51S-40-45'	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-22369-1

Client Sample ID: PZ-51S-40-45'
Date Collected: 03/19/21 09:21
Date Received: 03/20/21 09:40

Lab Sample ID: 140-22369-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Sum of Steps 1-7	Analysis	6010B SEP		1			49056	04/21/21 13:55	DKW	TAL KNX
	Instrument ID: NOEQUIP									
Total/NA	Analysis	Moisture		1			48557	04/06/21 14:48	BKD	TAL KNX
	Instrument ID: NOEQUIP									

Client Sample ID: PZ-51S-40-45'
Date Collected: 03/19/21 09:21
Date Received: 03/20/21 09:40

Lab Sample ID: 140-22369-1
Matrix: Solid
Percent Solids: 96.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Total			1.000 g	50 mL	48595	04/08/21 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		10			49029	04/20/21 15:35	KNC	TAL KNX
	Instrument ID: DUO									
Total/NA	Prep	Total			1.000 g	50 mL	48595	04/08/21 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		2			49029	04/20/21 17:00	KNC	TAL KNX
	Instrument ID: DUO									
Total/NA	Prep	Total			1.000 g	50 mL	48595	04/08/21 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		5			49029	04/20/21 17:15	KNC	TAL KNX
	Instrument ID: DUO									
Step 1	SEP	Exchangeable			5.000 g	25 mL	48597	04/08/21 08:00	KNC	TAL KNX
Step 1	Prep	3010A			5 mL	50 mL	48654	04/09/21 08:00	KNC	TAL KNX
Step 1	Analysis	6010B SEP		4			48880	04/15/21 11:56	KNC	TAL KNX
	Instrument ID: DUO									
Step 2	SEP	Carbonate			5.000 g	25 mL	48655	04/09/21 08:00	KNC	TAL KNX
Step 2	Prep	3010A			5 mL	50 mL	48695	04/12/21 08:00	KNC	TAL KNX
Step 2	Analysis	6010B SEP		3			48880	04/15/21 12:26	KNC	TAL KNX
	Instrument ID: DUO									
Step 3	SEP	Non-Crystalline			5.000 g	25 mL	48696	04/12/21 08:00	KNC	TAL KNX
Step 3	Prep	3010A			5 mL	50 mL	48739	04/13/21 08:00	KNC	TAL KNX
Step 3	Analysis	6010B SEP		1			48880	04/15/21 13:04	KNC	TAL KNX
	Instrument ID: DUO									
Step 4	SEP	Metal Hydroxide			5.000 g	25 mL	48740	04/13/21 08:00	KNC	TAL KNX
Step 4	Prep	3010A			5 mL	50 mL	48783	04/14/21 08:00	KNC	TAL KNX
Step 4	Analysis	6010B SEP		1			48880	04/15/21 13:43	KNC	TAL KNX
	Instrument ID: DUO									
Step 5	SEP	Organic-Bound			5.000 g	75 mL	48784	04/14/21 08:00	KNC	TAL KNX
Step 5	Prep	3010A			5 mL	50 mL	48867	04/16/21 08:00	KNC	TAL KNX
Step 5	Analysis	6010B SEP		5			48970	04/19/21 13:44	KNC	TAL KNX
	Instrument ID: DUO									
Step 6	SEP	Acid/Sulfide			5.000 g	250 mL	48875	04/16/21 08:00	KNC	TAL KNX
Step 6	Analysis	6010B SEP		1			48970	04/19/21 14:23	KNC	TAL KNX
	Instrument ID: DUO									
Step 6	SEP	Acid/Sulfide			5.000 g	250 mL	48875	04/16/21 08:00	KNC	TAL KNX
Step 6	Analysis	6010B SEP		2			48970	04/19/21 14:40	KNC	TAL KNX
	Instrument ID: DUO									

Lab Chronicle

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-22369-1

Client Sample ID: PZ-51S-40-45'
Date Collected: 03/19/21 09:21
Date Received: 03/20/21 09:40

Lab Sample ID: 140-22369-1
Matrix: Solid
Percent Solids: 96.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 7	Prep	Residual			1.000 g	50 mL	48911	04/19/21 08:00	KNC	TAL KNX
Step 7	Analysis	6010B SEP		10			49029	04/20/21 15:11	KNC	TAL KNX
	Instrument ID: DUO									
Step 7	Prep	Residual			1.000 g	50 mL	48911	04/19/21 08:00	KNC	TAL KNX
Step 7	Analysis	6010B SEP		1			49029	04/20/21 15:49	KNC	TAL KNX
	Instrument ID: DUO									
Step 7	Prep	Residual			1.000 g	50 mL	48911	04/19/21 08:00	KNC	TAL KNX
Step 7	Analysis	6010B SEP		5			49029	04/20/21 16:46	KNC	TAL KNX
	Instrument ID: DUO									

Client Sample ID: Method Blank
Date Collected: N/A
Date Received: N/A

Lab Sample ID: MB 140-48595/3-A
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Total			1.000 g	50 mL	48595	04/08/21 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		1			49029	04/20/21 14:46	KNC	TAL KNX
	Instrument ID: DUO									

Client Sample ID: Method Blank
Date Collected: N/A
Date Received: N/A

Lab Sample ID: MB 140-48597/3-B ^4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 1	SEP	Exchangeable			5.000 g	25 mL	48597	04/08/21 08:00	KNC	TAL KNX
Step 1	Prep	3010A			5 mL	50 mL	48654	04/09/21 08:00	KNC	TAL KNX
Step 1	Analysis	6010B SEP		4			48880	04/15/21 11:42	KNC	TAL KNX
	Instrument ID: DUO									

Client Sample ID: Method Blank
Date Collected: N/A
Date Received: N/A

Lab Sample ID: MB 140-48655/3-B ^3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 2	SEP	Carbonate			5.000 g	25 mL	48655	04/09/21 08:00	KNC	TAL KNX
Step 2	Prep	3010A			5 mL	50 mL	48695	04/12/21 08:00	KNC	TAL KNX
Step 2	Analysis	6010B SEP		3			48880	04/15/21 12:11	KNC	TAL KNX
	Instrument ID: DUO									

Lab Chronicle

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-22369-1

Client Sample ID: Method Blank
Lab Sample ID: MB 140-48696/3-B
Date Collected: N/A
Matrix: Solid
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 3	SEP	Non-Crystalline			5.000 g	25 mL	48696	04/12/21 08:00	KNC	TAL KNX
Step 3	Prep	3010A			5 mL	50 mL	48739	04/13/21 08:00	KNC	TAL KNX
Step 3	Analysis	6010B SEP		1			48880	04/15/21 12:50	KNC	TAL KNX
	Instrument ID: DUO									

Client Sample ID: Method Blank
Lab Sample ID: MB 140-48740/3-B
Date Collected: N/A
Matrix: Solid
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 4	SEP	Metal Hydroxide			5.000 g	25 mL	48740	04/13/21 08:00	KNC	TAL KNX
Step 4	Prep	3010A			5 mL	50 mL	48783	04/14/21 08:00	KNC	TAL KNX
Step 4	Analysis	6010B SEP		1			48880	04/15/21 13:29	KNC	TAL KNX
	Instrument ID: DUO									

Client Sample ID: Method Blank
Lab Sample ID: MB 140-48784/3-B ^5
Date Collected: N/A
Matrix: Solid
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 5	SEP	Organic-Bound			5.000 g	75 mL	48784	04/14/21 08:00	KNC	TAL KNX
Step 5	Prep	3010A			5 mL	50 mL	48867	04/16/21 08:00	KNC	TAL KNX
Step 5	Analysis	6010B SEP		5			48970	04/19/21 13:29	KNC	TAL KNX
	Instrument ID: DUO									

Client Sample ID: Method Blank
Lab Sample ID: MB 140-48875/3-A
Date Collected: N/A
Matrix: Solid
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 6	SEP	Acid/Sulfide			5.000 g	250 mL	48875	04/16/21 08:00	KNC	TAL KNX
Step 6	Analysis	6010B SEP		1			48970	04/19/21 14:09	KNC	TAL KNX
	Instrument ID: DUO									

Client Sample ID: Method Blank
Lab Sample ID: MB 140-48911/3-A
Date Collected: N/A
Matrix: Solid
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 7	Prep	Residual			1.000 g	50 mL	48911	04/19/21 08:00	KNC	TAL KNX
Step 7	Analysis	6010B SEP		1			49029	04/20/21 14:32	KNC	TAL KNX
	Instrument ID: DUO									

Lab Chronicle

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-22369-1

Client Sample ID: Lab Control Sample
Lab Sample ID: LCS 140-48595/4-A
Date Collected: N/A
Matrix: Solid
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Total			1.000 g	50 mL	48595	04/08/21 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		1			49029	04/20/21 14:51	KNC	TAL KNX
	Instrument ID: DUO									

Client Sample ID: Lab Control Sample
Lab Sample ID: LCS 140-48597/4-B ^5
Date Collected: N/A
Matrix: Solid
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 1	SEP	Exchangeable			5.000 g	25 mL	48597	04/08/21 08:00	KNC	TAL KNX
Step 1	Prep	3010A			5 mL	50 mL	48654	04/09/21 08:00	KNC	TAL KNX
Step 1	Analysis	6010B SEP		5			48880	04/15/21 11:47	KNC	TAL KNX
	Instrument ID: DUO									

Client Sample ID: Lab Control Sample
Lab Sample ID: LCS 140-48655/4-B ^5
Date Collected: N/A
Matrix: Solid
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 2	SEP	Carbonate			5.000 g	25 mL	48655	04/09/21 08:00	KNC	TAL KNX
Step 2	Prep	3010A			5 mL	50 mL	48695	04/12/21 08:00	KNC	TAL KNX
Step 2	Analysis	6010B SEP		5			48880	04/15/21 12:16	KNC	TAL KNX
	Instrument ID: DUO									

Client Sample ID: Lab Control Sample
Lab Sample ID: LCS 140-48696/4-B
Date Collected: N/A
Matrix: Solid
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 3	SEP	Non-Crystalline			5.000 g	25 mL	48696	04/12/21 08:00	KNC	TAL KNX
Step 3	Prep	3010A			5 mL	50 mL	48739	04/13/21 08:00	KNC	TAL KNX
Step 3	Analysis	6010B SEP		1			48880	04/15/21 12:55	KNC	TAL KNX
	Instrument ID: DUO									

Client Sample ID: Lab Control Sample
Lab Sample ID: LCS 140-48740/4-B
Date Collected: N/A
Matrix: Solid
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 4	SEP	Metal Hydroxide			5.000 g	25 mL	48740	04/13/21 08:00	KNC	TAL KNX
Step 4	Prep	3010A			5 mL	50 mL	48783	04/14/21 08:00	KNC	TAL KNX
Step 4	Analysis	6010B SEP		1			48880	04/15/21 13:34	KNC	TAL KNX
	Instrument ID: DUO									

Lab Chronicle

Client: Golder Associates Inc.
Job ID: 140-22369-1
Project/Site: SCS Site, Plant Branch

Client Sample ID: Lab Control Sample
Lab Sample ID: LCS 140-48784/4-B ^5
Date Collected: N/A
Matrix: Solid
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 5	SEP	Organic-Bound			5.000 g	75 mL	48784	04/14/21 08:00	KNC	TAL KNX
Step 5	Prep	3010A			5 mL	50 mL	48867	04/16/21 08:00	KNC	TAL KNX
Step 5	Analysis	6010B SEP		5			48970	04/19/21 13:34	KNC	TAL KNX
	Instrument ID: DUO									

Client Sample ID: Lab Control Sample
Lab Sample ID: LCS 140-48875/4-A
Date Collected: N/A
Matrix: Solid
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 6	SEP	Acid/Sulfide			5.000 g	250 mL	48875	04/16/21 08:00	KNC	TAL KNX
Step 6	Analysis	6010B SEP		1			48970	04/19/21 14:14	KNC	TAL KNX
	Instrument ID: DUO									

Client Sample ID: Lab Control Sample
Lab Sample ID: LCS 140-48911/4-A
Date Collected: N/A
Matrix: Solid
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 7	Prep	Residual			1.000 g	50 mL	48911	04/19/21 08:00	KNC	TAL KNX
Step 7	Analysis	6010B SEP		1			49029	04/20/21 14:37	KNC	TAL KNX
	Instrument ID: DUO									

Client Sample ID: Lab Control Sample Dup
Lab Sample ID: LCSD 140-48595/5-A
Date Collected: N/A
Matrix: Solid
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Total			1.000 g	50 mL	48595	04/08/21 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		1			49029	04/20/21 14:56	KNC	TAL KNX
	Instrument ID: DUO									

Client Sample ID: Lab Control Sample Dup
Lab Sample ID: LCSD 140-48597/5-B ^5
Date Collected: N/A
Matrix: Solid
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 1	SEP	Exchangeable			5.000 g	25 mL	48597	04/08/21 08:00	KNC	TAL KNX
Step 1	Prep	3010A			5 mL	50 mL	48654	04/09/21 08:00	KNC	TAL KNX
Step 1	Analysis	6010B SEP		5			48880	04/15/21 11:52	KNC	TAL KNX
	Instrument ID: DUO									

Lab Chronicle

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-22369-1

Client Sample ID: Lab Control Sample Dup
Lab Sample ID: LCSD 140-48655/5-B ^5
Date Collected: N/A
Matrix: Solid
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 2	SEP	Carbonate			5.000 g	25 mL	48655	04/09/21 08:00	KNC	TAL KNX
Step 2	Prep	3010A			5 mL	50 mL	48695	04/12/21 08:00	KNC	TAL KNX
Step 2	Analysis	6010B SEP		5			48880	04/15/21 12:21	KNC	TAL KNX
	Instrument ID: DUO									

Client Sample ID: Lab Control Sample Dup
Lab Sample ID: LCSD 140-48696/5-B
Date Collected: N/A
Matrix: Solid
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 3	SEP	Non-Crystalline			5.000 g	25 mL	48696	04/12/21 08:00	KNC	TAL KNX
Step 3	Prep	3010A			5 mL	50 mL	48739	04/13/21 08:00	KNC	TAL KNX
Step 3	Analysis	6010B SEP		1			48880	04/15/21 13:00	KNC	TAL KNX
	Instrument ID: DUO									

Client Sample ID: Lab Control Sample Dup
Lab Sample ID: LCSD 140-48740/5-B
Date Collected: N/A
Matrix: Solid
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 4	SEP	Metal Hydroxide			5.000 g	25 mL	48740	04/13/21 08:00	KNC	TAL KNX
Step 4	Prep	3010A			5 mL	50 mL	48783	04/14/21 08:00	KNC	TAL KNX
Step 4	Analysis	6010B SEP		1			48880	04/15/21 13:38	KNC	TAL KNX
	Instrument ID: DUO									

Client Sample ID: Lab Control Sample Dup
Lab Sample ID: LCSD 140-48784/5-B ^5
Date Collected: N/A
Matrix: Solid
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 5	SEP	Organic-Bound			5.000 g	75 mL	48784	04/14/21 08:00	KNC	TAL KNX
Step 5	Prep	3010A			5 mL	50 mL	48867	04/16/21 08:00	KNC	TAL KNX
Step 5	Analysis	6010B SEP		5			48970	04/19/21 13:39	KNC	TAL KNX
	Instrument ID: DUO									

Client Sample ID: Lab Control Sample Dup
Lab Sample ID: LCSD 140-48875/5-A
Date Collected: N/A
Matrix: Solid
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 6	SEP	Acid/Sulfide			5.000 g	250 mL	48875	04/16/21 08:00	KNC	TAL KNX
Step 6	Analysis	6010B SEP		1			48970	04/19/21 14:18	KNC	TAL KNX
	Instrument ID: DUO									

Lab Chronicle

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-22369-1

Client Sample ID: Lab Control Sample Dup

Date Collected: N/A
Date Received: N/A

Lab Sample ID: LCSD 140-48911/5-A

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 7	Prep	Residual			1.000 g	50 mL	48911	04/19/21 08:00	KNC	TAL KNX
Step 7	Analysis	6010B SEP		1			49029	04/20/21 14:41	KNC	TAL KNX
	Instrument ID: DUO									

Client Sample ID: PZ-51S-40-45'

Date Collected: 03/19/21 09:21
Date Received: 03/20/21 09:40

Lab Sample ID: 140-22369-1 DU

Matrix: Solid
Percent Solids: 96.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Total			1.000 g	50 mL	48595	04/08/21 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		10			49029	04/20/21 15:39	KNC	TAL KNX
	Instrument ID: DUO									
Total/NA	Prep	Total			1.000 g	50 mL	48595	04/08/21 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		2			49029	04/20/21 17:05	KNC	TAL KNX
	Instrument ID: DUO									
Total/NA	Prep	Total			1.000 g	50 mL	48595	04/08/21 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		5			49029	04/20/21 17:20	KNC	TAL KNX
	Instrument ID: DUO									
Step 1	SEP	Exchangeable			5.000 g	25 mL	48597	04/08/21 08:00	KNC	TAL KNX
Step 1	Prep	3010A			5 mL	50 mL	48654	04/09/21 08:00	KNC	TAL KNX
Step 1	Analysis	6010B SEP		4			48880	04/15/21 12:01	KNC	TAL KNX
	Instrument ID: DUO									
Step 2	SEP	Carbonate			5.000 g	25 mL	48655	04/09/21 08:00	KNC	TAL KNX
Step 2	Prep	3010A			5 mL	50 mL	48695	04/12/21 08:00	KNC	TAL KNX
Step 2	Analysis	6010B SEP		3			48880	04/15/21 12:40	KNC	TAL KNX
	Instrument ID: DUO									
Step 3	SEP	Non-Crystalline			5.000 g	25 mL	48696	04/12/21 08:00	KNC	TAL KNX
Step 3	Prep	3010A			5 mL	50 mL	48739	04/13/21 08:00	KNC	TAL KNX
Step 3	Analysis	6010B SEP		1			48880	04/15/21 13:09	KNC	TAL KNX
	Instrument ID: DUO									
Step 4	SEP	Metal Hydroxide			5.000 g	25 mL	48740	04/13/21 08:00	KNC	TAL KNX
Step 4	Prep	3010A			5 mL	50 mL	48783	04/14/21 08:00	KNC	TAL KNX
Step 4	Analysis	6010B SEP		1			48880	04/15/21 13:48	KNC	TAL KNX
	Instrument ID: DUO									
Step 5	SEP	Organic-Bound			5.000 g	75 mL	48784	04/14/21 08:00	KNC	TAL KNX
Step 5	Prep	3010A			5 mL	50 mL	48867	04/16/21 08:00	KNC	TAL KNX
Step 5	Analysis	6010B SEP		5			48970	04/19/21 13:49	KNC	TAL KNX
	Instrument ID: DUO									
Step 6	SEP	Acid/Sulfide			5.000 g	250 mL	48875	04/16/21 08:00	KNC	TAL KNX
Step 6	Analysis	6010B SEP		1			48970	04/19/21 14:28	KNC	TAL KNX
	Instrument ID: DUO									
Step 6	SEP	Acid/Sulfide			5.000 g	250 mL	48875	04/16/21 08:00	KNC	TAL KNX
Step 6	Analysis	6010B SEP		2			48970	04/19/21 14:45	KNC	TAL KNX
	Instrument ID: DUO									

Lab Chronicle

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-22369-1

Client Sample ID: PZ-51S-40-45'
Date Collected: 03/19/21 09:21
Date Received: 03/20/21 09:40

Lab Sample ID: 140-22369-1 DU
Matrix: Solid
Percent Solids: 96.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 7	Prep	Residual			1.000 g	50 mL	48911	04/19/21 08:00	KNC	TAL KNX
Step 7	Analysis	6010B SEP		10			49029	04/20/21 15:30	KNC	TAL KNX
	Instrument ID: DUO									
Step 7	Prep	Residual			1.000 g	50 mL	48911	04/19/21 08:00	KNC	TAL KNX
Step 7	Analysis	6010B SEP		1			49029	04/20/21 15:54	KNC	TAL KNX
	Instrument ID: DUO									
Step 7	Prep	Residual			1.000 g	50 mL	48911	04/19/21 08:00	KNC	TAL KNX
Step 7	Analysis	6010B SEP		5			49029	04/20/21 16:50	KNC	TAL KNX
	Instrument ID: DUO									

Laboratory References:
TAL KNX = Eurofins TestAmerica, Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000

Accreditation/Certification Summary

Client: Golder Associates Inc.
Job ID: 140-22369-1
Project/Site: SCS Site, Plant Branch

Laboratory: Eurofins TestAmerica, Knoxville

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	TNI0189	01-01-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
6010B	Total	Solid	Aluminum
6010B	Total	Solid	Beryllium
6010B	Total	Solid	Cadmium
6010B	Total	Solid	Cobalt
6010B	Total	Solid	Iron
6010B	Total	Solid	Lithium
6010B	Total	Solid	Manganese
6010B	Total	Solid	Selenium
6010B SEP		Solid	Aluminum
6010B SEP		Solid	Beryllium
6010B SEP		Solid	Cadmium
6010B SEP		Solid	Cobalt
6010B SEP		Solid	Iron
6010B SEP		Solid	Lithium
6010B SEP		Solid	Manganese
6010B SEP		Solid	Selenium
6010B SEP	3010A	Solid	Aluminum
6010B SEP	3010A	Solid	Beryllium
6010B SEP	3010A	Solid	Cadmium
6010B SEP	3010A	Solid	Cobalt
6010B SEP	3010A	Solid	Iron
6010B SEP	3010A	Solid	Lithium
6010B SEP	3010A	Solid	Manganese
6010B SEP	3010A	Solid	Selenium
6010B SEP	Acid/Sulfide	Solid	Aluminum
6010B SEP	Acid/Sulfide	Solid	Beryllium
6010B SEP	Acid/Sulfide	Solid	Cadmium
6010B SEP	Acid/Sulfide	Solid	Cobalt
6010B SEP	Acid/Sulfide	Solid	Iron
6010B SEP	Acid/Sulfide	Solid	Li
6010B SEP	Acid/Sulfide	Solid	Manganese
6010B SEP	Acid/Sulfide	Solid	Selenium
6010B SEP	Residual	Solid	Aluminum
6010B SEP	Residual	Solid	Beryllium
6010B SEP	Residual	Solid	Cadmium
6010B SEP	Residual	Solid	Cobalt
6010B SEP	Residual	Solid	Iron
6010B SEP	Residual	Solid	Lithium
6010B SEP	Residual	Solid	Manganese
6010B SEP	Residual	Solid	Selenium
Moisture		Solid	Percent Moisture

Method Summary

Client: Golder Associates Inc.
Project/Site: SCS Site, Plant Branch

Job ID: 140-22369-1

Method	Method Description	Protocol	Laboratory
6010B	SEP Metals (ICP) - Total	SW846	TAL KNX
6010B SEP	SEP Metals (ICP)	SW846	TAL KNX
Moisture	Percent Moisture	EPA	TAL KNX
3010A	Preparation, Total Metals	SW846	TAL KNX
Acid/Sulfide	Sequential Extraction Procedure, Acid/Sulfide Fraction	TAL-KNOX	TAL KNX
Carbonate	Sequential Extraction Procedure, Carbonate Fraction	TAL-KNOX	TAL KNX
Exchangeable	Sequential Extraction Procedure, Exchangeable Fraction	TAL-KNOX	TAL KNX
Metal Hydroxide	Sequential Extraction Procedure, Metal Hydroxide Fraction	TAL-KNOX	TAL KNX
Non-Crystalline	Sequential Extraction Procedure, Non-crystalline Materials	TAL-KNOX	TAL KNX
Organic-Bound	Sequential Extraction Procedure, Organic Bound Fraction	TAL-KNOX	TAL KNX
Residual	Sequential Extraction Procedure, Residual Fraction	TAL-KNOX	TAL KNX
Total	Preparation, Total Material	TAL-KNOX	TAL KNX

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL-KNOX = TestAmerica Laboratories, Knoxville, Facility Standard Operating Procedure.

Laboratory References:

TAL KNX = Eurofins TestAmerica, Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000

Eurofins TestAmerica, Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921
Phone: 865-291-3000 Fax: 865-584-4315

Chain of Custody Record

eurofins
244- ATLANTA

Client Information	Sampler: Brian Steele, Chris Tidwell	Lab PM: Henry, Ryan	Carrier Tracking No(s):	COC No: 140-9065-2761.1
Client Contact: Brian Steele	Phone: 470-512-3923	E-Mail: williamr.henry@eurofinset.com	State of Origin:	Page: Page 1 of 1
Company: Golder Associates Inc.	PWSID:			Job #:

Address: 5170 Peachtree Road Building 100, Suite 300	Due Date Requested:
City: Atlanta	TAT Requested (days): standard
State, Zip: GA, 30341	Compliance Project: Δ Yes Δ No
Phone: 470-512-3923	PO #: Purchase Order not required
Email: Brian_Steele@golder.com	WO #:
Project Name: SCS Site, Plant Branch	Project #: 14005864
Site: Plant Branch	SSOW#:

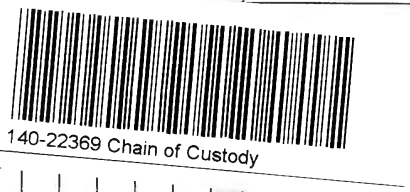
Analysis Requested

Preservation Codes:

A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010B_SEP - SEP - Metals	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N		
PZ-51S-40-45'	3-19-21	0921	G	S			X		



Possible Hazard Identification
☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		3-19-21 / 13:05	Golder		3/19/21 13:05	EETA
2		3/19/21 13:43	EETA		3/19/21 13:43	EETA
3	3/19/21	13:43	EETA		3/20/21 0946	EETA

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 11.01.2020

Loc: 140
22369

EUROFINS/TESTAMERICA KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Log In Number:

Review Items	Yes	No	NA	If No, what was the problem?
1. Are the shipping containers intact?	/			☐ **Containers, Broken**
2. Were ambient air containers received intact?			/	☐ Checked in lab
3. The coolers/containers custody seal if present, is it intact?	/			☐ Yes ☐ NA
4. Is the cooler temperature within limits? (> freezing temp. of water to 6 °C, VOST: 10°C) Thermometer ID : SC 70 Correction factor: -0.3	/			☐ **Cooler Out of Temp, Client Contacted, Proceed/Cancel** ☐ **Cooler Out of Temp, Same Day Receipt**
5. Were all of the sample containers received intact?	/			☐ **Containers, Broken**
6. Were samples received in appropriate containers?	/			☐ **Containers, Improper; Client Contacted; Proceed/Cancel**
7. Do sample container labels match COC? (IDs, Dates, Times)	/			☐ **COC & Samples Do Not Match** ☐ **COC Incorrect/Incomplete** ☐ **COC Not Received**
8. Were all of the samples listed on the COC received?	/			☐ **Sample Received, Not on COC** ☐ **Sample on COC, Not Received**
9. Is the date/time of sample collection noted?	/			☐ **COC; No Date/Time; Client Contacted**
10. Was the sampler identified on the COC?	/			☐ **Sampler Not Listed on COC**
11. Is the client and project name/# identified?	/			☐ **COC Incorrect/Incomplete**
12. Are tests/parameters listed for each sample?	/			☐ **COC No tests on COC**
13. Is the matrix of the samples noted?	/			☐ **COC Incorrect/Incomplete**
14. Was COC relinquished? (Signed/Dated/Timed)	/			☐ **COC Incorrect/Incomplete**
15. Were samples received within holding time?	/			☐ **Holding Time - Receipt**
16. Were samples received with correct chemical preservative (excluding Encore)?			/	☐ **pH Adjusted, pH Included (See box 16A)** ☐ **Incorrect Preservative**
17. Were VOA samples received without headspace?			/	☐ **Headspace (VOA only)**
18. Did you check for residual chlorine, if necessary? (e.g. 1613B, 1668) Chlorine test strip lot number:			/	☐ **Residual Chlorine**
19. For 1613B water samples is pH<9?			/	☐ If no, notify lab to adjust
20. For rad samples was sample activity info. Provided?			/	☐ Project missing info

Comments/Actions Taken

RT: 1.9°C CT: 1.6°C / Cooler
FR# 1516 9338 8777
Fedex Ge
Custody seal intact
KW 3/20/21

Labeling Verified by: **Date:**

pH test strip lot number:

Box 16A: pH Preservation	Box 18A: Residual Chlorine
Preservative:	
Lot Number:	
Exp Date:	
Analyst:	
Date:	
Time:	

Project #: 1400 5864 PM Instructions:

Sample Receiving Associate: Date: 3/20/21

QA026R32.doc, 062719

GEL Laboratories LLC
a member of The GEL Group INC

PO Box 30712 Charleston, SC 29417
2040 Savage Road Charleston, SC 29407
P 843.556.8171
F 843.766.1178

gel.com

February 16, 2023

Joju Abraham
Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308

Re: Branch CCR Groundwater Compliance APIW
Work Orders: 609211,608983,609401 and 609152

Dear Joju Abraham:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on January 31, 2023, February 01, 2023, February 02, 2023 and February 03, 2023. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4504.

Sincerely,

Anna Johnson for
Erin Trent
Project Manager

Purchase Order: GPC82177-0006
Enclosures

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 609152 GEL Work Order: 609152

The Qualifiers in this report are defined as follows:

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

J Value is estimated

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a surrogate compound

** Analyte is a Tracer compound

J See case narrative for an explanation

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Erin Trent.

Reviewed by

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 608983 GEL Work Order: 608983

The Qualifiers in this report are defined as follows:

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

J Value is estimated

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a surrogate compound

E %difference of sample and SD is >10%. Sample concentration must meet flagging criteria

** Analyte is a Tracer compound

J See case narrative for an explanation

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Erin Trent.

Reviewed by Anna Johnson

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 609211 GEL Work Order: 609211

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

J Value is estimated

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Erin Trent.

Reviewed by Anna Johnson

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 609401 GEL Work Order: 609401

The Qualifiers in this report are defined as follows:

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

J Value is estimated

* A quality control analyte recovery is outside of specified acceptance criteria

H Analytical holding time was exceeded

** Analyte is a surrogate compound

** Analyte is a Tracer compound

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Erin Trent.

Reviewed by Anna Johnson

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: February 16, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPIW

Client Sample ID: BRA-IW-D-2
Sample ID: 609401001
Matrix: WG
Collect Date: 02-FEB-23 14:26
Receive Date: 03-FEB-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		6.40			SU			AJ1	02/02/23	1426	2382734	1
GEL Field Ferrous Iron "As Received"												
Field Ferrous Iron		5.5			mg/L			AJ1	02/02/23	1426	2382734	2
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		2290	26.6	80.0	mg/L		200	HXC1	02/04/23	0937	2378595	3
Chloride		0.551	0.0670	0.200	mg/L		1	HXC1	02/03/23	1911	2378595	4
Fluoride		0.547	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1	PRB	02/12/23	1915	2378599	5
Cobalt		0.00383	0.000300	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		18.6	0.0800	0.250	mg/L	1.00	1					
Boron		2.37	0.104	0.300	mg/L	1.00	20	PRB	02/13/23	1228	2378599	6
Calcium		585	1.60	4.00	mg/L	1.00	20					
Iron		293	0.660	2.00	mg/L	1.00	20					
Magnesium		97.3	0.200	0.600	mg/L	1.00	20					
Manganese		15.8	0.0200	0.100	mg/L	1.00	20					
Potassium		57.2	1.60	6.00	mg/L	1.00	20					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		3560	23.8	100	mg/L			CH6	02/09/23	1328	2381199	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	02/06/23	1952	2379521	8
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		26.2	1.45	4.00	mg/L			HH2	02/15/23	1330	2382858	9
Bicarbonate alkalinity (CaCO3)		26.2	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							
The following Prep Methods were performed:												

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Certificate of Analysis

Report Date: February 16, 2023

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater ComplianceAPIW

Client Sample ID:	BRA-IW-D-2	Project:	GPCC00101
Sample ID:	609401001	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	LG2	02/06/23	0840	2378598

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	GEL Field Method	
3	EPA 300.0	
4	EPA 300.0	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 4500-S (2-) D	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 16, 2023

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater ComplianceAPIW

Client Sample ID:	BRA-IW-D-2	Project:	GPCC00101
Sample ID:	609401002	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	02-FEB-23 14:26		
Receive Date:	03-FEB-23		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Cd, Co, Se "As Received"												
Boron		2.36	0.104	0.300	mg/L	1.00	20	PRB	02/13/23	1242	2378599	1
Calcium		583	1.60	4.00	mg/L	1.00	20					
Iron		294	0.660	2.00	mg/L	1.00	20					
Magnesium		97.8	0.200	0.600	mg/L	1.00	20					
Manganese		16.0	0.0200	0.100	mg/L	1.00	20					
Potassium		57.3	1.60	6.00	mg/L	1.00	20					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1	PRB	02/12/23	1941	2378599	2
Cobalt		0.00369	0.000300	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		17.3	0.0800	0.250	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	LG2	02/06/23	0840	2378598

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	
2	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 16, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPIW

Client Sample ID:	BRA-IW-B-1	Project:	GPCC00101
Sample ID:	609211001	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	01-FEB-23 11:11		
Receive Date:	02-FEB-23		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		7.32			SU			EOS1	02/01/23	1111	2377718	1
GEL Field Ferrous Iron "As Received"												
Field Ferrous Iron		0			mg/L			EOS1	02/01/23	1111	2377718	2
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Nitrate-N		0.662	0.165	0.500	mg/L		5	HXC1	02/02/23	2322	2377739	3
Chloride		7.41	0.0670	0.200	mg/L		1	HXC1	02/02/23	1625	2377739	4
Fluoride		0.227	0.0330	0.100	mg/L		1					
Sulfate		160	2.66	8.00	mg/L		20	HXC1	02/02/23	2053	2377739	5
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		1.52	0.104	0.300	mg/L	1.00	20	BAJ	02/06/23	1619	2377747	6
Calcium		168	1.60	4.00	mg/L	1.00	20					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1	BAJ	02/05/23	1751	2377747	7
Cobalt		0.00123	0.000300	0.00100	mg/L	1.00	1					
Iron		1.08	0.0330	0.100	mg/L	1.00	1					
Magnesium		17.7	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.0654	0.00100	0.00500	mg/L	1.00	1					
Potassium		12.0	0.0800	0.300	mg/L	1.00	1					
Selenium		0.0305	0.00150	0.00500	mg/L	1.00	1					
Sodium		20.4	0.0800	0.250	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		597	2.38	10.0	mg/L			CH6	02/08/23	1114	2379677	8
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	02/06/23	1605	2377896	9
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		343	1.45	4.00	mg/L			EK1	02/13/23	1127	2382489	10
Bicarbonate alkalinity (CaCO3)		343	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

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Certificate of Analysis

Report Date: February 16, 2023

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater ComplianceAPIW

Client Sample ID:	BRA-IW-B-1	Project:	GPCC00101
Sample ID:	609211001	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	LG2	02/03/23	0800	2377746

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	GEL Field Method	
3	EPA 300.0	
4	EPA 300.0	
5	EPA 300.0	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 4500-S (2-) D	
10	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 14, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPIW

Client Sample ID: BRA-IW-E-1
Sample ID: 608983001
Matrix: WG
Collect Date: 30-JAN-23 15:31
Receive Date: 31-JAN-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		5.95			SU			EOS1	01/30/23	1531	2376253	1
GEL Field Ferrous Iron "As Received"												
Field Ferrous Iron		5.5			mg/L			EOS1	01/30/23	1531	2376253	2
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		1.39	0.0670	0.200	mg/L		1	JLD1	01/31/23	1642	2376273	3
Fluoride	J	0.0643	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate		80.9	1.33	4.00	mg/L		10	JLD1	02/01/23	0506	2376273	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	SKJ	02/10/23	1714	2376276	5
Potassium		12.3	0.0800	0.300	mg/L	1.00	1					
Calcium		21.7	0.0800	0.200	mg/L	1.00	1	SKJ	02/09/23	2046	2376276	6
Cobalt		0.00376	0.000300	0.00100	mg/L	1.00	1					
Iron		22.4	0.0330	0.100	mg/L	1.00	1					
Sodium		3.75	0.0800	0.250	mg/L	1.00	1					
Boron		0.365	0.0260	0.0750	mg/L	1.00	5	PRB	02/14/23	1021	2376276	7
Magnesium		5.41	0.0100	0.0300	mg/L	1.00	1	SKJ	02/14/23	0821	2376276	8
Manganese		0.361	0.00500	0.0250	mg/L	1.00	5	SKJ	02/10/23	1629	2376276	9
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		221	2.38	10.0	mg/L			CH6	02/06/23	1339	2378856	10
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	02/06/23	1556	2377896	11
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		40.6	1.45	4.00	mg/L			EK1	02/10/23	1545	2382211	12
Bicarbonate alkalinity (CaCO3)		40.6	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							
The following Prep Methods were performed:												

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: February 14, 2023

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater ComplianceAPIW

Client Sample ID:	BRA-IW-E-1	Project:	GPCC00101
Sample ID:	608983001	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	EM2	01/31/23	1540	2376275

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	GEL Field Method	
3	EPA 300.0	
4	EPA 300.0	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SW846 3005A/6020B	
10	SM 2540C	
11	SM 4500-S (2-) D	
12	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: February 13, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPIW

Client Sample ID: BRA-IW-B-2
Sample ID: 609152001
Matrix: WG
Collect Date: 31-JAN-23 10:22
Receive Date: 01-FEB-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		6.53			SU			AJ1	01/31/23	1022	2379484	1
GEL Field Ferrous Iron "As Received"												
Field Ferrous Iron		6.5			mg/L			AJ1	01/31/23	1022	2379484	2
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		5.28	0.0670	0.200	mg/L		1	JLD1	02/01/23	1701	2377022	3
Fluoride		0.787	0.165	0.500	mg/L		5	JLD1	02/01/23	2006	2377022	4
Nitrate-N	U	ND	0.165	0.500	mg/L		5					
Sulfate		689	13.3	40.0	mg/L		100	JLD1	02/01/23	2037	2377022	5
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1	BAJ	02/09/23	0433	2377195	6
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron		33.4	0.0330	0.100	mg/L	1.00	1					
Potassium		13.5	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		23.5	0.0800	0.250	mg/L	1.00	1					
Boron		1.16	0.0520	0.150	mg/L	1.00	10	BAJ	02/09/23	1142	2377195	7
Calcium		196	0.800	2.00	mg/L	1.00	10					
Magnesium		79.8	0.100	0.300	mg/L	1.00	10					
Manganese		2.74	0.0100	0.0500	mg/L	1.00	10					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1230	4.76	20.0	mg/L			CH6	02/06/23	1339	2378856	8
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	02/06/23	1602	2377896	9
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		143	1.45	4.00	mg/L			EK1	02/13/23	1027	2382489	10
Bicarbonate alkalinity (CaCO3)		143	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: February 13, 2023

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater ComplianceAPIW

Client Sample ID:	BRA-IW-B-2	Project:	GPCC00101
Sample ID:	609152001	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	LG2	02/02/23	0750	2377194

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	GEL Field Method	
3	EPA 300.0	
4	EPA 300.0	
5	EPA 300.0	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 4500-S (2-) D	
10	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: February 13, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPIW

Client Sample ID: BRA-IW-C-2
Sample ID: 609152002
Matrix: WG
Collect Date: 31-JAN-23 15:52
Receive Date: 01-FEB-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		7.67			SU			AJ1	01/31/23	1552	2379484	1
GEL Field Ferrous Iron "As Received"												
Field Ferrous Iron		2.5			mg/L			AJ1	01/31/23	1552	2379484	2
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		467	5.32	16.0	mg/L		40	JLD1	02/01/23	2108	2377022	3
Chloride		5.56	0.0670	0.200	mg/L		1	JLD1	02/01/23	1732	2377022	4
Fluoride		0.242	0.0330	0.100	mg/L		1					
Nitrate-N	J	0.0578	0.0330	0.100	mg/L		1					
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1	BAJ	02/09/23	0458	2377195	5
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron		2.75	0.0330	0.100	mg/L	1.00	1					
Potassium		12.4	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		22.6	0.0800	0.250	mg/L	1.00	1					
Boron		1.39	0.0520	0.150	mg/L	1.00	10	BAJ	02/09/23	1150	2377195	6
Calcium		190	0.800	2.00	mg/L	1.00	10					
Magnesium		52.5	0.100	0.300	mg/L	1.00	10					
Manganese		1.24	0.0100	0.0500	mg/L	1.00	10					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		952	2.38	10.0	mg/L			CH6	02/06/23	1339	2378856	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	02/06/23	1603	2377896	8
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		257	1.45	4.00	mg/L			EK1	02/13/23	1047	2382489	9
Bicarbonate alkalinity (CaCO3)		257	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: February 13, 2023

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater ComplianceAPIW

Client Sample ID:	BRA-IW-C-2	Project:	GPCC00101
Sample ID:	609152002	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	LG2	02/02/23	0750	2377194

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	GEL Field Method	
3	EPA 300.0	
4	EPA 300.0	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 4500-S (2-) D	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

QC Summary

Report Date: February 14, 2023

Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia

Contact: **Joju Abraham**

Workorder: **608983**

Parmname	NOM		Sample	Qual	QC	Units	RPD%		REC%	Range	Anlst	Date Time
Ion Chromatography												
Batch 2376273												
QC1205308090 608969009 DUP												
Chloride			40.7		40.7	mg/L	0.0246			(0%-20%)	JLD1	02/01/23 02:32
Fluoride		J	0.0767	J	0.0736	mg/L	4.13	^		(+/-0.100)		01/31/23 17:47
Nitrate-N			1.01		1.10	mg/L	7.77			(0%-20%)		
Sulfate			2800		2900	mg/L	3.59			(0%-20%)		02/01/23 04:05
QC1205308089 LCS												
Chloride	5.00				4.95	mg/L			99.1	(90%-110%)		01/31/23 10:32
Fluoride	2.50				2.48	mg/L			99.2	(90%-110%)		
Nitrate-N	2.50				2.45	mg/L			98	(90%-110%)		
Sulfate	10.0				9.94	mg/L			99.4	(90%-110%)		
QC1205308088 MB												
Chloride				U	ND	mg/L						01/31/23 10:02
Fluoride				U	ND	mg/L						
Nitrate-N				U	ND	mg/L						
Sulfate				U	ND	mg/L						
QC1205308091 608969009 PS												
Chloride	5.00		4.07		9.53	mg/L			109	(90%-110%)		02/01/23 03:03

QC Summary

Workorder: **608983**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography											
Batch 2376273											
Fluoride	2.50	J	0.0767		2.40	mg/L		93	(90%-110%)	JLD1	01/31/23 18:18
Nitrate-N	2.50		1.01		3.67	mg/L		106	(90%-110%)		
Sulfate	10.0		5.60		15.6	mg/L		100	(90%-110%)		02/01/23 04:35
Metals Analysis - ICPMS											
Batch 2376276											
QC1205308094 LCS											
Beryllium	0.0500				0.0574	mg/L		115	(80%-120%)	SKJ	02/10/23 15:46
Boron	0.100				0.102	mg/L		102	(80%-120%)	PRB	02/14/23 09:51
Calcium	2.00				2.18	mg/L		109	(80%-120%)	SKJ	02/09/23 19:49
Cobalt	0.0500				0.0495	mg/L		98.9	(80%-120%)		
Iron	2.00				2.03	mg/L		101	(80%-120%)		
Magnesium	2.00				2.39	mg/L		119	(80%-120%)		02/14/23 08:04
Manganese	0.0500				0.0501	mg/L		100	(80%-120%)		02/09/23 19:49
Potassium	2.00				2.12	mg/L		106	(80%-120%)		02/10/23 15:46
Sodium	2.00				2.16	mg/L		108	(80%-120%)		02/09/23 19:49
QC1205308093 MB											
Beryllium				J	0.000207	mg/L					02/10/23 15:43
Boron				U	ND	mg/L				PRB	02/14/23 09:49

QC Summary

Workorder: **608983**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2376276											
Calcium				U	ND	mg/L				SKJ	02/09/23 19:45
Cobalt				U	ND	mg/L					
Iron				U	ND	mg/L					
Magnesium				U	ND	mg/L					02/14/23 07:53
Manganese				U	ND	mg/L					02/09/23 19:45
Potassium				U	ND	mg/L					02/10/23 15:43
Sodium				U	ND	mg/L					02/09/23 19:45
QC1205308095 608969001 MS											
Beryllium	0.0500	J	0.000318		0.0515	mg/L		102	(75%-125%)		02/10/23 17:26
Boron	0.100		0.128		0.219	mg/L		90.5	(75%-125%)	PRB	02/14/23 09:54
Calcium	2.00		217		219	mg/L		N/A	(75%-125%)	SKJ	02/10/23 16:40
Cobalt	0.0500		0.345		0.404	mg/L		N/A	(75%-125%)		02/09/23 19:56
Iron	2.00		17.8		20.5	mg/L		N/A	(75%-125%)		
Magnesium	2.00		303		306	mg/L		N/A	(75%-125%)		02/14/23 08:16
Manganese	0.0500		109		115	mg/L		N/A	(75%-125%)		02/10/23 15:52
Potassium	2.00		10.8		13.2	mg/L		N/A	(75%-125%)		02/10/23 17:26

QC Summary

Workorder: **608983**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2376276											
Sodium	2.00		62.9		64.2	mg/L		N/A	(75%-125%)	SKJ	02/10/23 16:40
QC1205308096 608969001 MSD											
Beryllium	0.0500	J	0.000318		0.0527	mg/L	2.33	105	(0%-20%)		02/10/23 17:29
Boron	0.100		0.128		0.222	mg/L	1.59	94	(0%-20%)	PRB	02/14/23 09:56
Calcium	2.00		217		231	mg/L	5.2	N/A	(0%-20%)	SKJ	02/10/23 16:43
Cobalt	0.0500		0.345		0.409	mg/L	1.22	N/A	(0%-20%)		02/09/23 19:59
Iron	2.00		17.8		20.6	mg/L	0.871	N/A	(0%-20%)		
Magnesium	2.00		303		323	mg/L	5.48	N/A	(0%-20%)		02/14/23 08:18
Manganese	0.0500		109		115	mg/L	0.68	N/A	(0%-20%)		02/10/23 15:54
Potassium	2.00		10.8		13.4	mg/L	1.65	N/A	(0%-20%)		02/10/23 17:29
Sodium	2.00		62.9		67.8	mg/L	5.49	N/A	(0%-20%)		02/10/23 16:43
QC1205308097 608969001 SDILT											
Beryllium		J	0.318	U	ND	ug/L	N/A		(0%-20%)		02/10/23 17:34
Boron			128		33.5	ug/L	30.7		(0%-20%)	PRB	02/14/23 10:00
Calcium			21700	E	3280	ug/L	24.4*		(0%-20%)	SKJ	02/10/23 16:46
Cobalt			345		72.5	ug/L	5.03		(0%-20%)		02/09/23 20:06

QC Summary

Workorder: **608983**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2376276										
Iron		17800		3740	ug/L	4.91		(0%-20%)	SKJ	02/09/23 20:06
Magnesium		30300	E	4690	ug/L	22.5*		(0%-20%)		02/14/23 08:19
Manganese		218		43.8	ug/L	.485		(0%-20%)		02/10/23 15:57
Potassium		10800		2010	ug/L	7.21		(0%-20%)		02/10/23 17:34
Sodium		6290	E	940	ug/L	25.2*		(0%-20%)		02/10/23 16:46
Solids Analysis										
Batch 2378856										
QC1205312080 609499003 DUP										
Total Dissolved Solids		143		151	mg/L	5.44*		(0%-5%)	CH6	02/06/23 13:39
QC1205312077 LCS										
Total Dissolved Solids	300			301	mg/L		100	(95%-105%)		02/06/23 13:39
QC1205312076 MB										
Total Dissolved Solids			U	ND	mg/L					02/06/23 13:39
Spectrometric Analysis										
Batch 2377896										
QC1205310860 LCS										
Total Sulfide	0.400			0.408	mg/L		102	(85%-115%)	HH2	02/06/23 15:53
QC1205310859 MB										
Total Sulfide			U	ND	mg/L					02/06/23 15:53
QC1205310863 609152001 PS										
Total Sulfide	0.400	U ND		0.183	mg/L		45.7*	(75%-125%)		02/06/23 16:02

QC Summary

Workorder: **608983**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Spectrometric Analysis											
Batch 2377896											
QC1205310864 609152001 PSD											
Total Sulfide	0.400	U	ND		0.188	mg/L	2.89	47*	(0%-15%)	HH2	02/06/23 16:03
Titration and Ion Analysis											
Batch 2382211											
QC1205317833 608969001 DUP											
Alkalinity, Total as CaCO3			62.4		62.8	mg/L	0.639		(0%-20%)	EK1	02/10/23 15:15
Bicarbonate alkalinity (CaCO3)			62.4		62.8	mg/L	0.639		(0%-20%)		
Carbonate alkalinity (CaCO3)		U	ND	U	ND	mg/L	N/A				
QC1205317832 LCS											
Alkalinity, Total as CaCO3	100				104	mg/L		104	(90%-110%)		02/10/23 15:10
QC1205317834 608969001 MS											
Alkalinity, Total as CaCO3	100		62.4		170	mg/L		107	(80%-120%)		02/10/23 15:18

Notes:

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- N Metals--The Matrix spike sample recovery is not within specified control limits
- H Analytical holding time was exceeded
- < Result is less than value reported
- > Result is greater than value reported
- h Preparation or preservation holding time was exceeded
- R Sample results are rejected
- Z Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
- d 5-day BOD--The 2:1 depletion requirement was not met for this sample
- ^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
- N/A RPD or %Recovery limits do not apply.
- ND Analyte concentration is not detected above the detection limit

QC Summary

Workorder: **608983**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

E %difference of sample and SD is >10%. Sample concentration must meet flagging criteria

NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

E General Chemistry--Concentration of the target analyte exceeds the instrument calibration range

Q One or more quality control criteria have not been met. Refer to the applicable narrative or DER.

FB Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies

N1 See case narrative

Y Other specific qualifiers were required to properly define the results. Consult case narrative.

R Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.

B The target analyte was detected in the associated blank.

e 5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes

J See case narrative for an explanation

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

QC Summary

Report Date: February 16, 2023

Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia

Contact: **Joju Abraham**

Workorder: **609401**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography										
Batch 2378595										
QC1205311615 609413004 DUP										
Chloride		2.45		2.44	mg/L	0.209		(0%-20%)	HXC1	02/04/23 00:39
Fluoride		0.141		0.133	mg/L	5.85 ^		(+/-0.100)		
Nitrate-N		0.427		0.427	mg/L	0.187 ^		(+/-0.100)		
Sulfate		106		106	mg/L	0.0179		(0%-20%)		02/04/23 11:06
QC1205311617 609413014 DUP										
Chloride		2.67		2.67	mg/L	0.0412		(0%-20%)		02/04/23 05:08
Fluoride		0.215		0.203	mg/L	6.08 ^		(+/-0.100)		
Nitrate-N	U	ND	U	ND	mg/L	N/A				
Sulfate		702		700	mg/L	0.193		(0%-20%)		02/04/23 19:18
QC1205311614 LCS										
Chloride	5.00			4.85	mg/L		96.9	(90%-110%)		02/03/23 18:41
Fluoride	2.50			2.62	mg/L		105	(90%-110%)		
Nitrate-N	2.50			2.49	mg/L		99.5	(90%-110%)		
Sulfate	10.0			10.0	mg/L		100	(90%-110%)		
QC1205311613 MB										
Chloride			U	ND	mg/L					02/03/23 18:11

QC Summary

Workorder: **609401**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography											
Batch 2378595											
Fluoride				U	ND	mg/L				HXC1	02/03/23 18:11
Nitrate-N				U	ND	mg/L					
Sulfate				U	ND	mg/L					
QC1205311616 609413004 PS											
Chloride	5.00		2.45		7.65	mg/L		104	(90%-110%)		02/04/23 01:09
Fluoride	2.50		0.141		2.65	mg/L		100	(90%-110%)		
Nitrate-N	2.50		0.427		2.90	mg/L		98.8	(90%-110%)		
Sulfate	10.0		10.6		21.4	mg/L		108	(90%-110%)		02/04/23 11:36
QC1205311618 609413014 PS											
Chloride	5.00		2.67		7.86	mg/L		104	(90%-110%)		02/04/23 07:07
Fluoride	2.50		0.215		2.71	mg/L		99.6	(90%-110%)		
Nitrate-N	2.50	U	ND		2.35	mg/L		94.1	(90%-110%)		
Sulfate	10.0		7.02		17.6	mg/L		106	(90%-110%)		02/04/23 20:48
Metals Analysis - ICPMS											
Batch 2378599											
QC1205311625 LCS											
Boron	0.100				0.109	mg/L		109	(80%-120%)	PRB	02/13/23 12:26
Cadmium	0.0500				0.0492	mg/L		98.5	(80%-120%)		02/12/23 19:12
Calcium	2.00				2.05	mg/L		103	(80%-120%)		

QC Summary

Workorder: **609401**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2378599										
Cobalt	0.0500			0.0496	mg/L		99.1	(80%-120%)	PRB	02/12/23 19:12
Iron	2.00			1.95	mg/L		97.3	(80%-120%)		
Magnesium	2.00			2.06	mg/L		103	(80%-120%)		
Manganese	0.0500			0.0482	mg/L		96.4	(80%-120%)		
Potassium	2.00			1.94	mg/L		97.1	(80%-120%)		
Selenium	0.0500			0.0474	mg/L		94.7	(80%-120%)		
Sodium	2.00			2.00	mg/L		100	(80%-120%)		
QC1205311624 MB										
Boron			U	ND	mg/L					02/13/23 12:24
Cadmium			U	ND	mg/L					02/12/23 19:08
Calcium			U	ND	mg/L					
Cobalt			U	ND	mg/L					
Iron			U	ND	mg/L					
Magnesium			U	ND	mg/L					
Manganese			U	ND	mg/L					
Potassium			U	ND	mg/L					

QC Summary

Workorder: **609401**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2378599											
Selenium				U	ND	mg/L				PRB	02/12/23 19:08
Sodium				U	ND	mg/L					
QC1205311626 609401001 MS											
Boron	0.100		2.37		2.55	mg/L		N/A	(75%-125%)		02/13/23 12:31
Cadmium	0.0500	U	ND		0.0485	mg/L		96.9	(75%-125%)		02/12/23 19:19
Calcium	2.00		585		586	mg/L		N/A	(75%-125%)		02/13/23 12:31
Cobalt	0.0500		0.00383		0.0513	mg/L		95	(75%-125%)		02/12/23 19:19
Iron	2.00		293		298	mg/L		N/A	(75%-125%)		02/13/23 12:31
Magnesium	2.00		97.3		100	mg/L		N/A	(75%-125%)		
Manganese	0.0500		15.8		15.9	mg/L		N/A	(75%-125%)		
Potassium	2.00		57.2		59.5	mg/L		N/A	(75%-125%)		
Selenium	0.0500	U	ND		0.0525	mg/L		104	(75%-125%)		02/12/23 19:19
Sodium	2.00		18.6		21.1	mg/L		N/A	(75%-125%)		
QC1205311627 609401001 MSD											
Boron	0.100		2.37		2.49	mg/L	2.25	N/A	(0%-20%)		02/13/23 12:33
Cadmium	0.0500	U	ND		0.0476	mg/L	1.94	95	(0%-20%)		02/12/23 19:23
Calcium	2.00		585		573	mg/L	2.1	N/A	(0%-20%)		02/13/23 12:33

QC Summary

Workorder: **609401**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2378599											
Cobalt	0.0500		0.00383		0.0515	mg/L	0.272	95.3	(0%-20%)	PRB	02/12/23 19:23
Iron	2.00		293		290	mg/L	2.88	N/A	(0%-20%)		02/13/23 12:33
Magnesium	2.00		97.3		98.4	mg/L	1.9	N/A	(0%-20%)		
Manganese	0.0500		15.8		15.6	mg/L	1.78	N/A	(0%-20%)		
Potassium	2.00		57.2		58.0	mg/L	2.54	N/A	(0%-20%)		
Selenium	0.0500	U	ND		0.0541	mg/L	3.01	108	(0%-20%)		02/12/23 19:23
Sodium	2.00		18.6		21.2	mg/L	0.636	N/A	(0%-20%)		
QC1205311628 609401001 SDILT											
Boron			119		27.3	ug/L	15.1		(0%-20%)		02/13/23 12:35
Cadmium		U	ND	U	ND	ug/L	N/A		(0%-20%)		02/12/23 19:30
Calcium			29300		5810	ug/L	.692		(0%-20%)		02/13/23 12:35
Cobalt			3.83	J	0.788	ug/L	3.01		(0%-20%)		02/12/23 19:30
Iron			14600		2920	ug/L	.367		(0%-20%)		02/13/23 12:35
Magnesium			4870		982	ug/L	.893		(0%-20%)		
Manganese			790		157	ug/L	.705		(0%-20%)		
Potassium			2860		562	ug/L	1.84		(0%-20%)		

QC Summary

Workorder: **609401**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2378599											
Selenium		U	ND	U	ND	ug/L	N/A		(0%-20%)	PRB	02/12/23 19:30
Sodium			18600		3630	ug/L	2.47		(0%-20%)		
Solids Analysis											
Batch 2381199											
QC1205315842 609419005 DUP											
Total Dissolved Solids		H	4100	H	4790	mg/L	15.5*		(0%-5%)	CH6	02/09/23 13:28
QC1205315840 LCS											
Total Dissolved Solids	300				302	mg/L		101	(95%-105%)		02/09/23 13:28
QC1205315839 MB											
Total Dissolved Solids				U	ND	mg/L					02/09/23 13:28
Spectrometric Analysis											
Batch 2379521											
QC1205313136 LCS											
Total Sulfide	0.400				0.401	mg/L		100	(85%-115%)	HH2	02/06/23 19:38
QC1205313135 MB											
Total Sulfide				U	ND	mg/L					02/06/23 19:36
QC1205313139 609276004 PS											
Total Sulfide	0.400	U	ND		0.354	mg/L		88.1	(75%-125%)		02/06/23 19:43
QC1205313140 609276004 PSD											
Total Sulfide	0.400	U	ND		0.358	mg/L	1	89	(0%-15%)		02/06/23 19:43
Titration and Ion Analysis											
Batch 2382858											
QC1205318856 609424002 DUP											
Alkalinity, Total as CaCO3			55.0		55.6	mg/L	1.08		(0%-20%)	HH2	02/15/23 13:36

QC Summary

Workorder: **609401**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Titration and Ion Analysis										
Batch 2382858										
Bicarbonate alkalinity (CaCO3)		55.0		55.6	mg/L	1.08		(0%-20%)	HH2	02/15/23 13:36
Carbonate alkalinity (CaCO3)	U	ND	U	ND	mg/L	N/A				
QC1205318853 LCS										
Alkalinity, Total as CaCO3	100			104	mg/L		104	(90%-110%)		02/15/23 13:00
QC1205318857 609424002 MS										
Alkalinity, Total as CaCO3	100	55.0		156	mg/L		101	(80%-120%)		02/15/23 13:38

Notes:

The Qualifiers in this report are defined as follows:

U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
N	Metals--The Matrix spike sample recovery is not within specified control limits
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
Z	Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
d	5-day BOD--The 2:1 depletion requirement was not met for this sample
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
E	%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
E	General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
FB	Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.

QC Summary

Workorder: **609401**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

R Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.

B The target analyte was detected in the associated blank.

e 5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes

J See case narrative for an explanation

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

QC Summary

Report Date: February 13, 2023

Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia

Contact: **Joju Abraham**

Workorder: **609152**

Parmname	NOM		Sample	Qual	QC	Units	RPD%		REC%	Range	Anlst	Date Time
Ion Chromatography												
Batch 2377022												
QC1205309381 609144005 DUP												
Chloride			2.44		2.44	mg/L	0.131			(0%-20%)	JLD1	02/01/23 19:04
Fluoride		J	0.0482	J	0.0533	mg/L	10	^		(+/-0.100)		
Nitrate-N			2.39		2.40	mg/L	0.443			(0%-20%)		
Sulfate			0.713		0.706	mg/L	0.93	^		(+/-0.400)		
QC1205309380 LCS												
Chloride	5.00				4.96	mg/L			99.1	(90%-110%)		02/01/23 13:39
Fluoride	2.50				2.49	mg/L			99.6	(90%-110%)		
Nitrate-N	2.50				2.46	mg/L			98.3	(90%-110%)		
Sulfate	10.0				9.91	mg/L			99.1	(90%-110%)		
QC1205309379 MB												
Chloride				U	ND	mg/L						02/01/23 13:09
Fluoride				U	ND	mg/L						
Nitrate-N				U	ND	mg/L						
Sulfate				U	ND	mg/L						
QC1205309382 609144005 PS												
Chloride	5.00		2.44		7.72	mg/L			105	(90%-110%)		02/01/23 19:35

QC Summary

Workorder: **609152**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography											
Batch 2377022											
Fluoride	2.50	J	0.0482		2.53	mg/L		99.1	(90%-110%)	JLD1	02/01/23 19:35
Nitrate-N	2.50		2.39		5.04	mg/L		106	(90%-110%)		
Sulfate	10.0		0.713		10.5	mg/L		98.1	(90%-110%)		
Metals Analysis - ICPMS											
Batch 2377195											
QC1205309578 LCS											
Boron	0.100				0.111	mg/L		111	(80%-120%)	BAJ	02/09/23 11:21
Cadmium	0.0500				0.0508	mg/L		102	(80%-120%)		02/09/23 04:29
Calcium	2.00				2.06	mg/L		103	(80%-120%)		
Cobalt	0.0500				0.0498	mg/L		99.7	(80%-120%)		
Iron	2.00				1.97	mg/L		98.4	(80%-120%)		
Magnesium	2.00				2.19	mg/L		110	(80%-120%)		
Manganese	0.0500				0.0501	mg/L		100	(80%-120%)		
Potassium	2.00				1.99	mg/L		99.3	(80%-120%)		
Selenium	0.0500				0.0503	mg/L		101	(80%-120%)		
Sodium	2.00				2.12	mg/L		106	(80%-120%)		
QC1205309577 MB											
Boron				U	ND	mg/L					02/09/23 11:19

QC Summary

Workorder: **609152**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2377195										
Cadmium			U	ND	mg/L				BAJ	02/09/23 04:26
Calcium			U	ND	mg/L					
Cobalt			U	ND	mg/L					
Iron			U	ND	mg/L					
Magnesium			U	ND	mg/L					
Manganese			U	ND	mg/L					
Potassium			U	ND	mg/L					
Selenium			U	ND	mg/L					
Sodium			U	ND	mg/L					
QC1205309579 609152001 MS										
Boron	0.100	1.16		1.19	mg/L		N/A	(75%-125%)		02/09/23 11:44
Cadmium	0.0500 U	ND		0.0478	mg/L		95.6	(75%-125%)		02/09/23 04:37
Calcium	2.00	196		191	mg/L		N/A	(75%-125%)		02/09/23 11:44
Cobalt	0.0500 U	ND		0.0479	mg/L		95.8	(75%-125%)		02/09/23 04:37
Iron	2.00	33.4		34.5	mg/L		N/A	(75%-125%)		
Magnesium	2.00	79.8		79.2	mg/L		N/A	(75%-125%)		02/09/23 11:44

QC Summary

Workorder: **609152**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2377195											
Manganese	0.0500		2.74		2.71	mg/L		N/A	(75%-125%)	BAJ	02/09/23 11:44
Potassium	2.00		13.5		15.5	mg/L		N/A	(75%-125%)		02/09/23 04:37
Selenium	0.0500	U	ND		0.0454	mg/L		90.2	(75%-125%)		
Sodium	2.00		23.5		25.0	mg/L		N/A	(75%-125%)		
QC1205309580 609152001 MSD											
Boron	0.100		1.16		1.22	mg/L	2.25	N/A	(0%-20%)		02/09/23 11:46
Cadmium	0.0500	U	ND		0.0479	mg/L	0.176	95.8	(0%-20%)		02/09/23 04:40
Calcium	2.00		196		197	mg/L	3.51	N/A	(0%-20%)		02/09/23 11:46
Cobalt	0.0500	U	ND		0.0471	mg/L	1.71	94.2	(0%-20%)		02/09/23 04:40
Iron	2.00		33.4		34.5	mg/L	0.102	N/A	(0%-20%)		
Magnesium	2.00		79.8		79.8	mg/L	0.79	N/A	(0%-20%)		02/09/23 11:46
Manganese	0.0500		2.74		2.75	mg/L	1.42	N/A	(0%-20%)		
Potassium	2.00		13.5		15.3	mg/L	0.775	N/A	(0%-20%)		02/09/23 04:40
Selenium	0.0500	U	ND		0.0466	mg/L	2.67	92.6	(0%-20%)		
Sodium	2.00		23.5		25.1	mg/L	0.0561	N/A	(0%-20%)		
QC1205309581 609152001 SDILT											
Boron			116		25.7	ug/L	10.9		(0%-20%)		02/09/23 11:48

QC Summary

Workorder: **609152**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2377195										
Cadmium	U	ND	U	ND	ug/L	N/A		(0%-20%)	BAJ	02/09/23 04:47
Calcium		19600		4110	ug/L	5.02		(0%-20%)		02/09/23 11:48
Cobalt	U	ND	U	ND	ug/L	N/A		(0%-20%)		02/09/23 04:47
Iron		33400		7050	ug/L	5.67		(0%-20%)		
Magnesium		7980		1660	ug/L	4.17		(0%-20%)		02/09/23 11:48
Manganese		274		58.3	ug/L	6.35		(0%-20%)		
Potassium		13500		2710	ug/L	.275		(0%-20%)		02/09/23 04:47
Selenium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Sodium		23500		4340	ug/L	7.54		(0%-20%)		
Solids Analysis										
Batch 2378856										
QC1205312078 609382001 DUP										
Total Dissolved Solids		221		221	mg/L	0		(0%-5%)	CH6	02/06/23 13:39
QC1205312077 LCS										
Total Dissolved Solids	300			301	mg/L		100	(95%-105%)		02/06/23 13:39
QC1205312076 MB										
Total Dissolved Solids			U	ND	mg/L					02/06/23 13:39

QC Summary

Workorder: **609152**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Spectrometric Analysis										
Batch 2377896										
QC1205310860 LCS										
Total Sulfide	0.400			0.408	mg/L		102	(85%-115%)	HH2	02/06/23 15:53
QC1205310859 MB										
Total Sulfide			U	ND	mg/L					02/06/23 15:53
QC1205310863 609152001 PS										
Total Sulfide	0.400 U	ND		0.183	mg/L		45.7*	(75%-125%)		02/06/23 16:02
QC1205310864 609152001 PSD										
Total Sulfide	0.400 U	ND		0.188	mg/L	2.89	47*	(0%-15%)		02/06/23 16:03
Titration and Ion Analysis										
Batch 2382489										
QC1205318636 609152001 DUP										
Alkalinity, Total as CaCO3		143		143	mg/L	0.14		(0%-20%)	EK1	02/13/23 10:31
Bicarbonate alkalinity (CaCO3)		143		143	mg/L	0.14		(0%-20%)		
Carbonate alkalinity (CaCO3)	U	ND	U	ND	mg/L	N/A				
QC1205319654 609212001 DUP										
Alkalinity, Total as CaCO3		117		118	mg/L	0.17		(0%-20%)		02/13/23 11:40
Bicarbonate alkalinity (CaCO3)		117		118	mg/L	0.17		(0%-20%)		
Carbonate alkalinity (CaCO3)	U	ND	U	ND	mg/L	N/A				
QC1205318635 LCS										
Alkalinity, Total as CaCO3	100			105	mg/L		105	(90%-110%)		02/13/23 10:24
QC1205318637 609152001 MS										
Alkalinity, Total as CaCO3	100	143		247	mg/L		104	(80%-120%)		02/13/23 10:34

QC Summary

Workorder: **609152**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Titration and Ion Analysis											
Batch 2382489											
QC1205319655 609212001 MS											
Alkalinity, Total as CaCO3	100	117		222	mg/L		105	(80%-120%)	EK1	02/13/23	11:43

Notes:

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- N Metals--The Matrix spike sample recovery is not within specified control limits
- H Analytical holding time was exceeded
- < Result is less than value reported
- > Result is greater than value reported
- h Preparation or preservation holding time was exceeded
- R Sample results are rejected
- Z Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
- d 5-day BOD--The 2:1 depletion requirement was not met for this sample
- ^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
- N/A RPD or %Recovery limits do not apply.
- ND Analyte concentration is not detected above the detection limit
- E %difference of sample and SD is >10%. Sample concentration must meet flagging criteria
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- E General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
- Q One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
- FB Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
- N1 See case narrative
- Y Other specific qualifiers were required to properly define the results. Consult case narrative.
- R Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.
- B The target analyte was detected in the associated blank.
- e 5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes
- J See case narrative for an explanation

QC Summary

Workorder: **609152**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

QC Summary

Report Date: February 16, 2023

Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia

Contact: **Joju Abraham**

Workorder: **609211**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography										
Batch 2377739										
QC1205310455 609211001 DUP										
Chloride		7.41		7.44	mg/L	0.473		(0%-20%)	HXC1	02/02/23 19:53
Fluoride		0.227		0.225	mg/L	0.929 ^		(+/-0.100)		
Nitrate-N		0.662		0.656	mg/L	0.987 ^		(+/-0.500)		02/02/23 23:52
Sulfate		160		171	mg/L	6.74		(0%-20%)		02/02/23 22:23
QC1205310454 LCS										
Chloride	5.00			4.84	mg/L		96.9	(90%-110%)		02/02/23 19:23
Fluoride	2.50			2.62	mg/L		105	(90%-110%)		
Nitrate-N	2.50			2.49	mg/L		99.5	(90%-110%)		
Sulfate	10.0			10.1	mg/L		101	(90%-110%)		
QC1205310453 MB										
Chloride			U	ND	mg/L					02/02/23 18:54
Fluoride			U	ND	mg/L					
Nitrate-N			U	ND	mg/L					
Sulfate			U	ND	mg/L					
QC1205310456 609211001 PS										
Chloride	5.00	7.41		13.1	mg/L		114*	(90%-110%)		02/02/23 20:23

QC Summary

Workorder: **609211**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography										
Batch 2377739										
Fluoride	2.50	0.227		2.77	mg/L		102	(90%-110%)	HXC1	02/02/23 20:23
Nitrate-N	2.50	0.132		2.52	mg/L		95.7	(90%-110%)		02/03/23 00:22
Sulfate	10.0	8.01		18.7	mg/L		107	(90%-110%)		02/02/23 22:52
Metals Analysis - ICPMS										
Batch 2377747										
QC1205310468 LCS										
Boron	0.100			0.111	mg/L		111	(80%-120%)	BAJ	02/06/23 16:17
Cadmium	0.0500			0.0523	mg/L		105	(80%-120%)		02/05/23 17:48
Calcium	2.00			2.24	mg/L		112	(80%-120%)		02/06/23 16:17
Cobalt	0.0500			0.0505	mg/L		101	(80%-120%)		02/05/23 17:48
Iron	2.00			1.95	mg/L		97.3	(80%-120%)		
Magnesium	2.00			2.02	mg/L		101	(80%-120%)		
Manganese	0.0500			0.0504	mg/L		101	(80%-120%)		
Potassium	2.00			1.84	mg/L		91.9	(80%-120%)		
Selenium	0.0500			0.0520	mg/L		104	(80%-120%)		
Sodium	2.00			2.29	mg/L		114	(80%-120%)		
QC1205310467 MB										
Boron			U	ND	mg/L					02/06/23 16:15

QC Summary

Workorder: **609211**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2377747										
Cadmium			U	ND	mg/L				BAJ	02/05/23 17:44
Calcium			U	ND	mg/L					02/06/23 16:15
Cobalt			U	ND	mg/L					02/05/23 17:44
Iron			U	ND	mg/L					
Magnesium			U	ND	mg/L					
Manganese			U	ND	mg/L					
Potassium			U	ND	mg/L					
Selenium			U	ND	mg/L					
Sodium			U	ND	mg/L					
QC1205310469 609211001 MS										
Boron	0.100	1.52		1.74	mg/L		N/A	(75%-125%)		02/06/23 16:21
Cadmium	0.0500	U ND		0.0500	mg/L		99.8	(75%-125%)		02/05/23 17:55
Calcium	2.00	168		185	mg/L		N/A	(75%-125%)		02/06/23 16:21
Cobalt	0.0500	0.00123		0.0493	mg/L		96.1	(75%-125%)		02/05/23 17:55
Iron	2.00	1.08		3.08	mg/L		100	(75%-125%)		
Magnesium	2.00	17.7		20.1	mg/L		N/A	(75%-125%)		

QC Summary

Workorder: **609211**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2377747										
Manganese	0.0500	0.0654		0.116	mg/L		101	(75%-125%)	BAJ	02/05/23 17:55
Potassium	2.00	12.0		14.5	mg/L		N/A	(75%-125%)		
Selenium	0.0500	0.0305		0.0816	mg/L		102	(75%-125%)		
Sodium	2.00	20.4		23.4	mg/L		N/A	(75%-125%)		
QC1205310470 609211001 MSD										
Boron	0.100	1.52		1.75	mg/L	0.244	N/A	(0%-20%)		02/06/23 16:23
Cadmium	0.0500	ND	U	0.0500	mg/L	0.088	99.7	(0%-20%)		02/05/23 17:58
Calcium	2.00	168		186	mg/L	0.00965	N/A	(0%-20%)		02/06/23 16:23
Cobalt	0.0500	0.00123		0.0491	mg/L	0.396	95.7	(0%-20%)		02/05/23 17:58
Iron	2.00	1.08		3.05	mg/L	1.05	98.6	(0%-20%)		
Magnesium	2.00	17.7		19.9	mg/L	0.818	N/A	(0%-20%)		
Manganese	0.0500	0.0654		0.114	mg/L	1.61	97.5	(0%-20%)		
Potassium	2.00	12.0		14.4	mg/L	0.568	N/A	(0%-20%)		
Selenium	0.0500	0.0305		0.0831	mg/L	1.78	105	(0%-20%)		
Sodium	2.00	20.4		22.9	mg/L	2.07	N/A	(0%-20%)		
QC1205310471 609211001 SDILT										
Boron		75.9		17.1	ug/L	12.5		(0%-20%)		02/06/23 16:25

QC Summary

Workorder: **609211**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2377747										
Cadmium	U	ND	U	ND	ug/L	N/A		(0%-20%)	BAJ	02/05/23 18:06
Calcium		8410		1740	ug/L	3.47		(0%-20%)		02/06/23 16:25
Cobalt		1.23	U	ND	ug/L	N/A		(0%-20%)		02/05/23 18:06
Iron		1080		226	ug/L	4.69		(0%-20%)		
Magnesium		17700		3080	ug/L	12.8		(0%-20%)		
Manganese		65.4		13.6	ug/L	4.21		(0%-20%)		
Potassium		12000		2170	ug/L	9.63		(0%-20%)		
Selenium		30.5		6.13	ug/L	.502		(0%-20%)		
Sodium		20400		3970	ug/L	2.98		(0%-20%)		
Solids Analysis										
Batch 2379677										
QC1205313479 609435002 DUP										
Total Dissolved Solids		857		820	mg/L	4.37		(0%-5%)	CH6	02/08/23 11:14
QC1205314103 609211001 DUP										
Total Dissolved Solids		597		602	mg/L	0.834		(0%-5%)		02/08/23 11:14
QC1205313478 LCS										
Total Dissolved Solids	300			301	mg/L		100	(95%-105%)		02/08/23 11:14
QC1205313477 MB										
Total Dissolved Solids			U	ND	mg/L					02/08/23 11:14

QC Summary

Workorder: **609211**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Spectrometric Analysis										
Batch 2377896										
QC1205310860 LCS										
Total Sulfide	0.400			0.408	mg/L		102	(85%-115%)	HH2	02/06/23 15:53
QC1205310859 MB										
Total Sulfide			U	ND	mg/L					02/06/23 15:53
QC1205310863 609152001 PS										
Total Sulfide	0.400 U	ND		0.183	mg/L		45.7*	(75%-125%)		02/06/23 16:02
QC1205310864 609152001 PSD										
Total Sulfide	0.400 U	ND		0.188	mg/L	2.89	47*	(0%-15%)		02/06/23 16:03
Titration and Ion Analysis										
Batch 2382489										
QC1205318636 609152001 DUP										
Alkalinity, Total as CaCO3		143		143	mg/L	0.14		(0%-20%)	EK1	02/13/23 10:31
Bicarbonate alkalinity (CaCO3)		143		143	mg/L	0.14		(0%-20%)		
Carbonate alkalinity (CaCO3)	U	ND	U	ND	mg/L	N/A				
QC1205319654 609212001 DUP										
Alkalinity, Total as CaCO3		117		118	mg/L	0.17		(0%-20%)		02/13/23 11:40
Bicarbonate alkalinity (CaCO3)		117		118	mg/L	0.17		(0%-20%)		
Carbonate alkalinity (CaCO3)	U	ND	U	ND	mg/L	N/A				
QC1205318635 LCS										
Alkalinity, Total as CaCO3	100			105	mg/L		105	(90%-110%)		02/13/23 10:24
QC1205318637 609152001 MS										
Alkalinity, Total as CaCO3	100	143		247	mg/L		104	(80%-120%)		02/13/23 10:34

QC Summary

Workorder: **609211**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Titration and Ion Analysis											
Batch 2382489											
QC1205319655 609212001 MS											
Alkalinity, Total as CaCO3	100	117		222	mg/L		105	(80%-120%)	EK1	02/13/23	11:43

Notes:

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- N Metals--The Matrix spike sample recovery is not within specified control limits
- H Analytical holding time was exceeded
- < Result is less than value reported
- > Result is greater than value reported
- h Preparation or preservation holding time was exceeded
- R Sample results are rejected
- Z Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
- d 5-day BOD--The 2:1 depletion requirement was not met for this sample
- ^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
- N/A RPD or %Recovery limits do not apply.
- ND Analyte concentration is not detected above the detection limit
- E %difference of sample and SD is >10%. Sample concentration must meet flagging criteria
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- E General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
- Q One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
- FB Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
- N1 See case narrative
- Y Other specific qualifiers were required to properly define the results. Consult case narrative.
- R Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.
- B The target analyte was detected in the associated blank.
- e 5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes
- J See case narrative for an explanation

QC Summary

Workorder: **609211**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 35
Analytical Batch: 2378599

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 14
Preparation Batch: 2378598

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
609401001	BRA-IW-D-2
609401002	BRA-IW-D-2
1205311624	Method Blank (MB)**ICP-MS**
1205311625	Laboratory Control Sample (LCS)
1205311628	609401001(BRA-IW-D-2L) Serial Dilution (SD)
1205311626	609401001(BRA-IW-D-2S) Matrix Spike (MS)
1205311627	609401001(BRA-IW-D-2SD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples 609401001 (BRA-IW-D-2) and 609401002 (BRA-IW-D-2) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument.

Analyte	609401	
	001	002

Boron	20X	20X
Calcium	20X	20X
Iron	20X	20X
Magnesium	20X	20X
Manganese	20X	20X
Potassium	20X	20X

General Chemistry

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 30
Analytical Batch: 2378595

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
609401001	BRA-IW-D-2
1205311613	Method Blank (MB)
1205311614	Laboratory Control Sample (LCS)
1205311615	609413004(NonSDG) Sample Duplicate (DUP)
1205311616	609413004(NonSDG) Post Spike (PS)
1205311617	609413014(NonSDG) Sample Duplicate (DUP)
1205311618	609413014(NonSDG) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Sample Dilutions
The following samples 1205311615 (Non SDG 609413004DUP), 1205311616 (Non SDG 609413004PS), 1205311617 (Non SDG 609413014DUP), 1205311618 (Non SDG 609413014PS) and 609401001 (BRA-IW-D-2) were diluted because target analyte concentrations exceeded the calibration range. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	**609401 001**
Sulfate	200X

Product: **Solids, Total Dissolved**

Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 20
Analytical Batch: 2381199

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
609401001	BRA-IW-D-2
1205315839	Method Blank (MB)
1205315840	Laboratory Control Sample (LCS)
1205315842	609419005(NonSDG) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Duplicate Relative Percent Difference (RPD) Statement
The Relative Percent Difference (RPD) between the sample and duplicate falls outside of the established acceptance limits because of the heterogeneous matrix of the sample:

Analyte	Sample	Value
Total Dissolved Solids	1205315842 (Non SDG 609419005DUP)	15.5* (0%-5%)

Technical Information

Holding Times
Sample (See Below) was not available for analysis until after the holding time had expired. The data is qualified.

Sample	Analyte	Value
1205315842 (Non SDG 609419005DUP)		Received 08-FEB-23, within holding, analyzed 09-FEB-23, out of holding 08-FEB-23

Miscellaneous Information

Additional Comments
Sample filtration took > 10 minutes; therefore as prescribed in the method, a reduced aliquot was used. 1205315842 (Non SDG 609419005DUP) and 609401001 (BRA-IW-D-2).

Product: **Sulfide, Total**
Analytical Method: SM 4500-S (2-) D
Analytical Procedure: GL-GC-E-052 REV# 12
Analytical Batch: 2379521

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
609401001	BRA-IW-D-2
1205313135	Method Blank (MB)
1205313136	Laboratory Control Sample (LCS)
1205313139	609276004(NonSDG) Post Spike (PS)
1205313140	609276004(NonSDG) Post Spike Duplicate (PSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **Alkalinity**
Analytical Method: SM 2320B
Analytical Procedure: GL-GC-E-033 REV# 14
Analytical Batch: 2382858

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
609401001	BRA-IW-D-2
1205318853	Laboratory Control Sample (LCS)
1205318856	609424002(NonSDG) Sample Duplicate (DUP)
1205318857	609424002(NonSDG) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 35
Analytical Batch: 2377747

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 14
Preparation Batch: 2377746

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
609211001	BRA-IW-B-1
1205310467	Method Blank (MB)**ICP-MS**
1205310468	Laboratory Control Sample (LCS)
1205310471	609211001(BRA-IW-B-1L) Serial Dilution (SD)
1205310469	609211001(BRA-IW-B-1S) Matrix Spike (MS)
1205310470	609211001(BRA-IW-B-1SD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument.

Analyte	**609211**
	001
Boron	20X
Calcium	20X

General Chemistry

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 30
Analytical Batch: 2377739

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
609211001	BRA-IW-B-1
1205310453	Method Blank (MB)
1205310454	Laboratory Control Sample (LCS)
1205310455	609211001(BRA-IW-B-1) Sample Duplicate (DUP)
1205310456	609211001(BRA-IW-B-1) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Matrix Spike (MS)/Post Spike (PS) Recovery Statement
The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Chloride	1205310456 (BRA-IW-B-1PS)	114* (90%-110%)

Technical Information

Sample Dilutions
The following samples 1205310455 (BRA-IW-B-1DUP), 1205310456 (BRA-IW-B-1PS) and 609211001 (BRA-IW-B-1) were diluted because target analyte concentrations exceeded the calibration range. The following samples 1205310455 (BRA-IW-B-1DUP), 1205310456 (BRA-IW-B-1PS) and 609211001 (BRA-IW-B-1) in this sample group were diluted due to matrix interference. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	609211 001
Nitrate-N	5X
Sulfate	20X

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 20
Analytical Batch: 2379677

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
609211001	BRA-IW-B-1
1205313477	Method Blank (MB)
1205313478	Laboratory Control Sample (LCS)
1205313479	609435002(NonSDG) Sample Duplicate (DUP)
1205314103	609211001(BRA-IW-B-1) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments
Sample filtration took > 10 minutes; therefore as prescribed in the method, a reduced aliquot was used. 1205314103 (BRA-IW-B-1DUP).

Product: **Sulfide, Total**
Analytical Method: SM 4500-S (2-) D
Analytical Procedure: GL-GC-E-052 REV# 12
Analytical Batch: 2377896

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
609211001	BRA-IW-B-1
1205310859	Method Blank (MB)
1205310860	Laboratory Control Sample (LCS)
1205310863	609152001(BRA-IW-B-2) Post Spike (PS)
1205310864	609152001(BRA-IW-B-2) Post Spike Duplicate (PSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Matrix Spike (MS)/Post Spike (PS) Recovery Statement
The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Total Sulfide	1205310863 (BRA-IW-B-2PS)	45.7* (75%-125%)
	1205310864 (BRA-IW-B-2PSD)	47* (75%-125%)

Product: **Alkalinity**
Analytical Method: SM 2320B
Analytical Procedure: GL-GC-E-033 REV# 14
Analytical Batch: 2382489

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
609211001	BRA-IW-B-1
1205318635	Laboratory Control Sample (LCS)
1205318636	609152001(BRA-IW-B-2) Sample Duplicate (DUP)
1205318637	609152001(BRA-IW-B-2) Matrix Spike (MS)
1205319654	609212001(BRA-PZ-68D) Sample Duplicate (DUP)
1205319655	609212001(BRA-PZ-68D) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Technical Case Narrative
Georgia Power Company
SDG #: 608983

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 35
Analytical Batch: 2376276

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 14
Preparation Batch: 2376275

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
608983001	BRA-IW-E-1
1205308093	Method Blank (MB)**ICP-MS**
1205308094	Laboratory Control Sample (LCS)
1205308097	608969001(BRA-PZ-66IL) Serial Dilution (SD)
1205308095	608969001(BRA-PZ-66IS) Matrix Spike (MS)
1205308096	608969001(BRA-PZ-66ISD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Quality Control (QC) Information

Serial Dilution % Difference Statement
The serial dilution is used to assess matrix suppression or enhancement. Raw element concentrations 25x the IDL/MDL for CVAA, 50X the IDL/MDL for ICP and 100X the IDL/MDL for ICP-MS analyses are applicable for serial dilution assessment. Not all the applicable analytes were within the established acceptance criteria. Matrix suppression may be suspected. The data has been qualified.

Sample	Analyte	Value
1205308097 (BRA-PZ-66ISDILT)	Calcium	24.4 *(0%-20%)

	Magnesium	22.5 *(0%-20%)
	Sodium	25.2 *(0%-20%)

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Sample 608983001 (BRA-IW-E-1) was diluted to ensure that the analyte concentration was within the linear calibration range of the instrument.

Analyte	608983
	001
Boron	5X
Manganese	5X

General Chemistry

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 30
Analytical Batch: 2376273

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
608983001	BRA-IW-E-1
1205308088	Method Blank (MB)
1205308089	Laboratory Control Sample (LCS)
1205308090	608969009(BRA-PZ-64I) Sample Duplicate (DUP)
1205308091	608969009(BRA-PZ-64I) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Sample Dilutions
The following samples 1205308090 (BRA-PZ-64IDUP), 1205308091 (BRA-PZ-64IPS) and 608983001 (BRA-IW-E-1) were diluted because target analyte concentrations exceeded the calibration range. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	608983
	001

Sulfate	10X

Miscellaneous Information

Manual Integrations
Sample 1205308090 (BRA-PZ-64IDUP) was manually integrated to correctly position the baseline as set in the calibration standards.

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 20
Analytical Batch: 2378856

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
608983001	BRA-IW-E-1
1205312076	Method Blank (MB)
1205312077	Laboratory Control Sample (LCS)
1205312080	609499003(NonSDG) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Duplicate Relative Percent Difference (RPD) Statement
The Relative Percent Difference (RPD) between the sample and duplicate falls outside of the established acceptance limits because of the heterogeneous matrix of the sample:

Analyte	Sample	Value
Total Dissolved Solids	1205312080 (Non SDG 609499003DUP)	5.44* (0%-5%)

Product: **Sulfide, Total**
Analytical Method: SM 4500-S (2-) D
Analytical Procedure: GL-GC-E-052 REV# 12
Analytical Batch: 2377896

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
608983001	BRA-IW-E-1

1205310859	Method Blank (MB)
1205310860	Laboratory Control Sample (LCS)
1205310863	609152001(BRA-IW-B-2) Post Spike (PS)
1205310864	609152001(BRA-IW-B-2) Post Spike Duplicate (PSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Matrix Spike (MS)/Post Spike (PS) Recovery Statement
The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Total Sulfide	1205310863 (BRA-IW-B-2PS)	45.7* (75%-125%)
	1205310864 (BRA-IW-B-2PSD)	47* (75%-125%)

Product: **Alkalinity**
Analytical Method: SM 2320B
Analytical Procedure: GL-GC-E-033 REV# 14
Analytical Batch: 2382211

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
608983001	BRA-IW-E-1
1205317832	Laboratory Control Sample (LCS)
1205317833	608969001(BRA-PZ-66I) Sample Duplicate (DUP)
1205317834	608969001(BRA-PZ-66I) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Technical Case Narrative
Georgia Power Company
SDG #: 609152

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 35
Analytical Batch: 2377195

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 14
Preparation Batch: 2377194

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
609152001	BRA-IW-B-2
609152002	BRA-IW-C-2
1205309577	Method Blank (MB)**ICP-MS**
1205309578	Laboratory Control Sample (LCS)
1205309581	609152001(BRA-IW-B-2L) Serial Dilution (SD)
1205309579	609152001(BRA-IW-B-2S) Matrix Spike (MS)
1205309580	609152001(BRA-IW-B-2SD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument.

Analyte	609152	
	001	002
Boron	10X	10X

Calcium	10X	10X
Magnesium	10X	10X
Manganese	10X	10X

General Chemistry

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 30
Analytical Batch: 2377022

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
609152001	BRA-IW-B-2
609152002	BRA-IW-C-2
1205309379	Method Blank (MB)
1205309380	Laboratory Control Sample (LCS)
1205309381	609144005(NonSDG) Sample Duplicate (DUP)
1205309382	609144005(NonSDG) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Sample Dilutions
The following samples 609152001 (BRA-IW-B-2) and 609152002 (BRA-IW-C-2) were diluted because target analyte concentrations exceeded the calibration range. The following sample 609152001 (BRA-IW-B-2) in this sample group was diluted due to matrix interference. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	609152	
	001	002
Fluoride	5X	1X
Nitrate-N	5X	1X
Sulfate	100X	40X

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 20

Analytical Batch: 2378856

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
609152001	BRA-IW-B-2
609152002	BRA-IW-C-2
1205312076	Method Blank (MB)
1205312077	Laboratory Control Sample (LCS)
1205312078	609382001(NonSDG) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments
Sample filtration took > 10 minutes; therefore as prescribed in the method, a reduced aliquot was used. 609152001 (BRA-IW-B-2).

Product: **Sulfide, Total**
Analytical Method: SM 4500-S (2-) D
Analytical Procedure: GL-GC-E-052 REV# 12
Analytical Batch: 2377896

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
609152001	BRA-IW-B-2
609152002	BRA-IW-C-2
1205310859	Method Blank (MB)
1205310860	Laboratory Control Sample (LCS)
1205310863	609152001(BRA-IW-B-2) Post Spike (PS)
1205310864	609152001(BRA-IW-B-2) Post Spike Duplicate (PSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Matrix Spike (MS)/Post Spike (PS) Recovery Statement
The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Total Sulfide	1205310863 (BRA-IW-B-2PS)	45.7* (75%-125%)
	1205310864 (BRA-IW-B-2PSD)	47* (75%-125%)

Product: **Alkalinity**
Analytical Method: SM 2320B
Analytical Procedure: GL-GC-E-033 REV# 14
Analytical Batch: 2382489

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
609152001	BRA-IW-B-2
609152002	BRA-IW-C-2
1205318635	Laboratory Control Sample (LCS)
1205318636	609152001(BRA-IW-B-2) Sample Duplicate (DUP)
1205318637	609152001(BRA-IW-B-2) Matrix Spike (MS)
1205319654	609212001(BRA-PZ-68D) Sample Duplicate (DUP)
1205319655	609212001(BRA-PZ-68D) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Page: 1 of 1
Project #
GEL Quote #:
COC Number (1):
PO Number:

609211

GEL Laboratories LLC
gel.com | Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number:

GEL Project Manager: Erin Trent

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power | Phone # 404-506-7116

Project/Site Name: Plant Branch Ash Ponds - IW | Fax #

Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308

Collected By: T. Goble ACC | Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS, NO3 EPA 300, SM 2540C	Total & Bicarb Alk SM 2320B	Cd, Co, Se + Metals * EPA 6020, 6010 (NI)	~~Be, Co~~ + Metals * EPA 6020, 6010 (NI)	Sulfide SM 4500	<-- Preservative Type (6)
BRA- IW-B-1	02/01/23	1111	G	N	WG	N	N	5	✓	✓	✓		✓	field pH = 7.32 field ferrous iron = 0.0
BRA-														field pH = field ferrous iron =
BRA-														field pH = field ferrous iron =
BRA-														field pH = field ferrous iron =
BRA-														field pH = field ferrous iron =

Comments
Note: extra sample is required for sample specific QC
Task_Code: BRA-CCR-ASSMT-2023S1

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1 Taylor Hall	2-2-23	0959	1	2/2/23	9:59
2	2/2/23	2:20	2 Amyasia Johnson	2/2/23	2:20
3			3		

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

TAT Requested: Normal: x Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [x] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [x] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * Metals: B,Ca,Fe,Mg,Mn,K,Na

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] Yes [ ] No *Cooler Temp:* ____ °C

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.

4.) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. *8260B* - 3, *6010B/7470A* - 1).

6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic, Hg= Mercury
Ba = Barium, Se= Selenium
Cd = Cadmium, Ag= Silver
Cr = Chromium, MR= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	SDG/AR/COC/Work Order: 609211 | 609212
Received By: Stacy Boone	Date Received: 2/2/2023
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A) Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 98 CPM / mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 < 6 deg. C)?*	✓			Preservation Method: Wet Ice Ice Packs Dry Ice None Other: *all temperatures are recorded in Celsius TEMP: 1°c
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR3-22 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___ (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___ (If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials AJM Date 2/3/23 Page 1 of 1

GL-CHL-SR-001 Rev 7

609401

Page: 1 of 1
Project #:
GEL Quote #:
COC Number [1]:
PO Number:

GEL Laboratories LLC
gel.com
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number:
GEL Project Manager: Erin Trent

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power
Phone # 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - IW
Fax #
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: ACC
Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested [3] (Fill in the number of containers for each test)

Sample ID *For composites - indicate start and stop date/time	*Date Collected (mm/dd/yy)	Time Collected (Military) (hh:mm)	QC Code [2]	* Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (Yes / No) Hazardous (Yes / No)	(If Known) Expected Hazard (Enter List)	Total # of Containers	Cl, F, SO4, TDS, NO3 EPA 300, SM 2540C	Total & Dicarb Alk SM 2320B	Cd, Cr, Se + Metals * EPA 6020, 6010	Ba, Co + Metals * EPA 6020, 6010	Sulfide SM 4500	Dissolved Cd, Cr, Se + Metals *	Preservative Type [6]	Comments Note: extra sample is required for sample specific QC. Task Code: BRA-CCR-ASSMT-20223S1
BRA-IW-D-2	02/02/23	1426	G	N	WG	N	N	5	X	X	X		X			field pH = 6.40 field ferrous iron = 5.5
BRA-IW-D-2	02/02/23	1426	G	Y	WG	N	N	1						X		field pH = N/A field ferrous iron = N/A
BRA-																field pH = field ferrous iron =
BRA-																field pH = field ferrous iron =
BRA-																field pH = field ferrous iron =

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1 Taylor Gott	2-3-23		1 Erin S. Trent	2/3/23	1320
2			2		
3			3		

TAT Requested: Normal: X Rush: Specify: (Subject to Surcharge)

Fax Results: [ ] Yes [x] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [x] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * Metals: B,Ca,Fe,Mg,Mn,K,Na

For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No Cooler Temp: °C

For sample shipping and delivery details, see Sample Receipt & Review form (SRR).

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other

1.) Chain of Custody Number = Client Determined

2.) QC Codes: N = Normal Sample, TB = Trip Blank, SD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample. G = Grab, C = Composite

3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.

4.) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).

6.) Preservative Type: HA = Hydrochloric Acid, NT = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank.

7.) KNOWN OR POSSIBLE HAZARDS:

RCRA Metals
As = Arsenic
Ba = Barium
Cd = Cadmium
Cr = Chromium
Pb = Lead
Hg = Mercury
Se = Selenium
Ag = Silver
MR = Misc. RCRA metals

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW = Listed Waste
(F,K,P and U-listed wastes)
Waste code(s):

Other
OT = Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns (i.e. Origin of sample(s), type of site collected from, odd matrices, etc.)

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

609401

Client: GPCC	SDG/AR/COC/Work Order: 609A00, 609401
Received By: MLS	Date Received: 2.3.23
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier (Other) Client drop off

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A) Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): _____CPM / mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below: PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)*	✓			Preservation Method: Wet Ice Ice Packs Dry Ice None Other: *all temperatures are recorded in Celsius TEMP: 3
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR2-21 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials AM Date 2/6/23 Page 1 of 1

GL-GHL-SR-001 Rev 7

Page: 1 of 1
Project #
GEL Quote #:
COC Number (1):
PO Number:

GEL Laboratories LLC 609152
gel.com
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power | Phone # 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - IW | Fax #
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: T. Goble ACC | Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS, NO3 EPA 300, SM 2540C	Total & Bicarb Alk SM 2320B	Cd, Co, Se + Metals * EPA 6020, 6010 (NI)	~~Be, Co~~ + Metals * EPA 6020, 6040 (NI)	Sulfide SM 4500	<-- Preservative Type (6)
BRA- IW-B-2	01/31/23	1022	G	N	WG	N	N	5	✓	✓	✓		✓	field pH = 6.53; field ferrous iron = 6.5
BRA- IW-C-2	01/31/23	1552	G	N	WG	N	N	5	✓	✓	✓		✓	field pH = 7.67; field ferrous iron = 2.5
BRA-														field pH =; field ferrous iron =
BRA-														field pH =; field ferrous iron =
BRA-														field pH =; field ferrous iron =

Comments
Note: extra sample is required for sample specific QC
Task_Code: BRA-CCR-ASSMT-2023S1

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	Taylor Goble	2-1-23	0916	[signature] KW	2/1/23	9:16
2	[signature]	2/1/23	147	[signature]	2-1-23	1:47
3						

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

TAT Requested: Normal: x Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [x] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [x] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * Metals: B,Ca,Fe,Mg,Mn,K,Na

For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No *Cooler Temp:* ____ °C

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.

4.) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. *8260B* - 3, *6010B/7470A* - 1).

6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic Hg= Mercury
Ba = Barium Se= Selenium
Cd = Cadmium Ag= Silver
Cr = Chromium MR= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM ET 609152

Client: CCPP	**SDG/AR/COC/Work Order:**
Received By: MVH	**Date Received:** 02-01-2023
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM / mR/Hr **Classified as: Rad 1 Rad 2 Rad 3**
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	**Comments/Qualifiers (Required for Non-Conforming Items)**
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: Wet Ice Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius **TEMP:** 3
4	Daily check performed and passed on IR temperature gun?	✓			**Temperature Device Serial #:** IR2-21 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials AD Date 2/2/23 Page 1 of 1

GL-CHL-SR-001 Rev 7

Page: 1 of 1
Project #
GEL Quote #:
COC Number (1):
PO Number:

GEL Laboratories LLC
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics
6089 83
Chain of Custody and Analytical Request
GEL Work Order Number: ***GEL Project Manager: Erin Trent***

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power | Phone # 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - IW | Fax #
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: T. Goble ACC | Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS, NO3 EPA 300, SM 2540C	Total & Bicarb Alk SM 2320B	Cd, Co, Se + Metals * EPA 6020, 6010 (NI)	Be, Co + Metals * EPA 6020, 6010 (NI)	Sulfide SM 4500	<-- Preservative Type (6)
BRA- IW-E-1	01/30/23	1531	G	N	WG	N	N	5	✓	✓	✓ (16)	✓	✓	field pH = 5.95; field ferrous iron = 5.5
BRA-														field pH = ; field ferrous iron =
BRA-														field pH = ; field ferrous iron =
BRA-														field pH = ; field ferrous iron =
BRA-														field pH = ; field ferrous iron =

Comments
Note: extra sample is required for sample specific QC
Task_Code: BRA-CCR-ASSMT-2023S1

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	Tayler Gholl	1-30-23	1610	Devon Fuller	1/30/23	1610
2	Devon Fuller	1/31/23	0901		1/31/23	901
3						

TAT Requested: Normal: x Rush: ____ Specify: ____ (Subject to Surcharge)
Fax Results: [ ] Yes [x] No
Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [x] Level 2 [ ] Level 3 [ ] Level 4
Additional Remarks: * Metals: B,Ca,Fe,Mg,Mn,K,Na
For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No *Cooler Temp:* 1 °C
> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*
Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.

4.) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. *8260B* - 3, *6010B/7470A* - 1).

6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic Hg= Mercury
Ba = Barium Se= Selenium
Cd = Cadmium Ag= Silver
Cr = Chromium MR= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM ET

Client: GEC	SDG/AR/COC/Work Order: 609169 609172
Received By: MVH	Date Received: 01-31-2023
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other Cooler 3 - 1 Cooler 2 - 2 Cooler 1 - 1

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: Wet Ice Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP:___
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR2-21 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?			✓	Sample ID's and Containers Affected: B2A-P2-571, B2A-P2-661, B2A-P2-641 If Preservation added, Lot#: 1244-13 Sodium Hydroxide
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials AM Date 2/1/23 Page 1 of 1

GL-CHL-SR-001 Rev 7

List of current GEL Certifications as of 16 February 2023

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122023-4
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2022-160
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-22-20
Utah NELAP	SC000122022-37
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

List of current GEL Certifications as of 13 February 2023

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122023-4
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2022-160
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-22-20
Utah NELAP	SC000122022-37
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

List of current GEL Certifications as of 16 February 2023

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122023-4
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2022-160
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-22-20
Utah NELAP	SC000122022-37
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

List of current GEL Certifications as of 14 February 2023

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122023-4
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2022-160
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-22-20
Utah NELAP	SC000122022-37
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

Low-Flow Test Report:

Test Date / Time: 2/1/2023 10:16:11 AM
Project: Plant Branch Ash Ponds
Operator Name: Taylor Goble

Location Name: IW-B-1 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 31.7 ft** **Total Depth: 41.7 ft** **Initial Depth to Water: 23.32 ft**	**Pump Type: Peristaltic Pump** **Tubing Type: Poly** **Pump Intake From TOC: 35 ft** **Estimated Total Volume Pumped: 13750 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 250 ml/min** **Final Draw Down: 0.58 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 877800**

Test Notes:
Sampled at 1111. Cloudy 61 degrees. Ferrous iron: 0.0 mg/L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 4	+/- 5 %	+/- 10 %	+/- 10	+/- 30	+/- 0.1	
2/1/2023 10:16 AM	00:00	7.39 pH	20.44 °C	971.35 µS/cm	4.18 mg/L	58.30 NTU	160.6 mV	23.32 ft	250.00 ml/min
2/1/2023 10:21 AM	05:00	7.22 pH	19.02 °C	991.16 µS/cm	0.45 mg/L	43.50 NTU	46.8 mV	23.55 ft	250.00 ml/min
2/1/2023 10:26 AM	10:00	7.23 pH	18.89 °C	973.67 µS/cm	0.27 mg/L	33.80 NTU	15.7 mV	23.76 ft	250.00 ml/min
2/1/2023 10:31 AM	15:00	7.26 pH	18.88 °C	974.73 µS/cm	0.20 mg/L	29.80 NTU	17.7 mV	23.86 ft	250.00 ml/min
2/1/2023 10:36 AM	20:00	7.28 pH	18.90 °C	966.23 µS/cm	0.15 mg/L	24.00 NTU	11.1 mV	23.90 ft	250.00 ml/min
2/1/2023 10:41 AM	25:00	7.30 pH	18.83 °C	963.52 µS/cm	0.13 mg/L	16.40 NTU	9.6 mV	23.90 ft	250.00 ml/min
2/1/2023 10:46 AM	30:00	7.31 pH	18.71 °C	963.85 µS/cm	0.12 mg/L	23.20 NTU	7.6 mV	23.90 ft	250.00 ml/min
2/1/2023 10:51 AM	35:00	7.32 pH	18.67 °C	960.30 µS/cm	0.11 mg/L	13.30 NTU	6.7 mV	23.90 ft	250.00 ml/min
2/1/2023 10:56 AM	40:00	7.40 pH	18.71 °C	919.52 µS/cm	0.10 mg/L	5.40 NTU	18.8 mV	23.90 ft	250.00 ml/min
2/1/2023 11:01 AM	45:00	7.32 pH	18.75 °C	945.88 µS/cm	0.09 mg/L	11.70 NTU	7.4 mV	23.90 ft	250.00 ml/min
2/1/2023 11:06 AM	50:00	7.36 pH	18.66 °C	920.45 µS/cm	0.09 mg/L	8.90 NTU	9.4 mV	23.90 ft	250.00 ml/min
2/1/2023 11:11 AM	55:00	7.32 pH	18.62 °C	943.06 µS/cm	0.08 mg/L	4.40 NTU	8.3 mV	23.90 ft	250.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 1/31/2023 9:47:19 AM
Project: Plant Branch Ash Ponds
Operator Name: Taylor Goble

Location Name: IW-B-2 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 9.52 ft** **Total Depth: 19.52 ft** **Initial Depth to Water: 5.18 ft**	**Pump Type: Peristaltic Pump** **Tubing Type: Poly** **Pump Intake From TOC: 14 ft** **Estimated Total Volume Pumped: 10500 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 300 ml/min** **Final Draw Down: 0.07 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 877800**

Test Notes:
Sampled at 1022. Cloudy 57 degrees. Ferrous iron: 6.5 mg/L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 4	+/- 5 %	+/- 10 %	+/- 10	+/- 30	+/- 0.1	
1/31/2023 9:47 AM	00:00	6.97 pH	16.61 °C	1,342.5 µS/cm	0.36 mg/L	27.20 NTU	-47.7 mV	5.25 ft	300.00 ml/min
1/31/2023 9:52 AM	05:00	6.62 pH	16.93 °C	1,389.5 µS/cm	0.10 mg/L	15.20 NTU	-79.0 mV	5.25 ft	300.00 ml/min
1/31/2023 9:57 AM	10:00	6.50 pH	17.13 °C	1,456.1 µS/cm	0.06 mg/L	10.70 NTU	-83.8 mV	5.25 ft	300.00 ml/min
1/31/2023 10:02 AM	15:00	6.47 pH	17.28 °C	1,474.6 µS/cm	0.04 mg/L	9.17 NTU	-85.6 mV	5.25 ft	300.00 ml/min
1/31/2023 10:07 AM	20:00	6.49 pH	17.32 °C	1,476.2 µS/cm	0.02 mg/L	7.28 NTU	-87.7 mV	5.25 ft	300.00 ml/min
1/31/2023 10:12 AM	25:00	6.48 pH	17.41 °C	1,492.2 µS/cm	0.02 mg/L	6.54 NTU	-89.6 mV	5.25 ft	300.00 ml/min
1/31/2023 10:17 AM	30:00	6.52 pH	17.46 °C	1,489.3 µS/cm	0.01 mg/L	5.88 NTU	-91.0 mV	5.25 ft	300.00 ml/min
1/31/2023 10:22 AM	35:00	6.53 pH	17.48 °C	1,507.7 µS/cm	0.01 mg/L	4.61 NTU	-91.9 mV	5.25 ft	300.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

March 05, 2024

Joju Abraham
Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308

Re: Branch CCR Groundwater Compliance APBCD and Reanalysis: additional analysis for 624832
Work Orders: 624831,624832 and 627361

Dear Joju Abraham:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on June 06, 2023. This revised data report has been prepared and reviewed in accordance with GEL's standard operating procedures. The data package is being revised to report data for Cadmium and Beryllium. The data package is being revised to report data for Cadmium and Beryllium.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Recieved
624831001	BRA-IW-B-5	Ground Water	05/06/23 11:05	06/06/23 13:16
624831002	BRA-IW-B-4	Ground Water	05/06/23 13:15	06/06/23 13:16
624831003	BRA-IW-B-3	Ground Water	05/06/23 15:10	06/06/23 13:16
624832001	BRA-PZ-74I	Ground Water	06/06/23 09:40	06/06/23 15:39
627361001	BRA-PZ-74I	Ground Water	06/06/23 09:40	06/06/23 15:39

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Prep Methods and Prep Dates

Method	Run Date ID
SW846 3005A	07-JUN-2023
SW846 3005A	27-JUN-2023
SW846 7470A Prep	11-JUL-2023

Analysis Methods and Analysis Dates

Method	Run Date ID
Calculation	21-JUL-2023

EPA 300.0	06-JUN-2023
EPA 300.0	07-JUN-2023
EPA 903.1 Modified	20-JUL-2023
EPA 904.0/SW846 9320 Modified	15-JUL-2023
GEL Field Method	05-JUN-2023
GEL Field Method	06-JUN-2023
SM 2320B	08-JUN-2023
SM 2540C	07-JUN-2023
SM 4500-H B/SW846 9040C, SM 2550B	05-JUN-2023
SM 4500-H B/SW846 9040C, SM 2550B	06-JUN-2023
SM 4500-S (2-) D	09-JUN-2023
SW846 3005A/6020B	12-JUN-2023
SW846 3005A/6020B	13-JUN-2023
SW846 3005A/6020B	18-JUL-2023
SW846 3005A/6020B	19-JUL-2023
SW846 7470A	12-JUL-2023

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4504.

Sincerely,

Erin B. Trent

Erin Trent
Project Manager

Purchase Order: GPC82177-0006
Enclosures

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 624831 GEL Work Order: 624831

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL

J Value is estimated

N/A RPD or %Recovery limits do not apply.

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Erin Trent.

Reviewed by Erin B. Trent

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 624832 GEL Work Order: 624832

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL

J Value is estimated

N Metals--The Matrix spike sample recovery is not within specified control limits

N/A RPD or %Recovery limits do not apply.

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Erin Trent.

Reviewed by Erin J. Trent

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 627361 GEL Work Order: 627361

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria
** Analyte is a Tracer compound
** Analyte is a surrogate compound
B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL
H Analytical holding time was exceeded
J Value is estimated
U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
h Preparation or preservation holding time was exceeded

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Erin Trent.

Reviewed by Erin J. Trent

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: March 5, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD and Reanalysis: additional analysis for 624832

Client Sample ID: BRA-IW-B-5
Sample ID: 624831001
Matrix: WG
Collect Date: 05-JUN-23 11:05
Receive Date: 06-JUN-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		5.81			SU			EOS1	06/05/23	1105	2439614	1
GEL Field Ferrous Iron "As Received"												
Field Ferrous Iron		6			mg/L			EOS1	06/05/23	1105	2439614	2
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		62.1	1.33	4.00	mg/L		10	JLD1	06/06/23	2358	2439679	3
Nitrate-N	U	ND	0.0660	0.200	mg/L		2	JLD1	06/06/23	2222	2439679	4
Chloride		0.693	0.0670	0.200	mg/L		1	JLD1	06/06/23	1632	2439679	5
Fluoride		0.113	0.0330	0.100	mg/L		1					
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		0.366	0.0260	0.0750	mg/L	1.00	5	PRB	06/12/23	2012	2439741	6
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	PRB	06/12/23	2044	2439741	7
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		36.8	0.0800	0.200	mg/L	1.00	1					
Cobalt	J	0.000852	0.000300	0.00100	mg/L	1.00	1					
Iron		21.1	0.0330	0.100	mg/L	1.00	1					
Magnesium		5.14	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.751	0.00100	0.00500	mg/L	1.00	1					
Potassium		11.6	0.0800	0.300	mg/L	1.00	1					
Sodium		2.97	0.0800	0.250	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		232	2.38	10.0	mg/L			CH6	06/07/23	1447	2440211	8
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	06/09/23	1721	2440523	9
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		96.1	0.725	2.00	mg/L			JW2	06/08/23	1024	2440524	10
Bicarbonate alkalinity (CaCO3)		96.1	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

GEL LABORATORIES LLC
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Certificate of Analysis

Report Date: March 5, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater ComplianceAPBCD and Reanalysis: additional analysis for 624832

Client Sample ID:	BRA-IW-B-5	Project:	GPCC00101
Sample ID:	624831001	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	JD2	06/07/23	0730	2439740

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	GEL Field Method	
3	EPA 300.0	
4	EPA 300.0	
5	EPA 300.0	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 4500-S (2-) D	
10	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: March 5, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD and Reanalysis: additional analysis for 624832

Client Sample ID: BRA-IW-B-4
Sample ID: 624831002
Matrix: WG
Collect Date: 05-JUN-23 13:15
Receive Date: 06-JUN-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		5.79			SU			EOS1	06/05/23	1315	2439614	1
GEL Field Ferrous Iron "As Received"												
Field Ferrous Iron		2			mg/L			EOS1	06/05/23	1315	2439614	2
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		0.112	0.0330	0.100	mg/L		1	JLD1	06/06/23	1529	2439679	3
Chloride		19.3	0.335	1.00	mg/L		5	JLD1	06/06/23	1943	2439679	4
Nitrate-N		1.16	0.165	0.500	mg/L		5					
Sulfate		284	5.32	16.0	mg/L		40	JLD1	06/06/23	2015	2439679	5
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	PRB	06/12/23	2102	2439741	6
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Cobalt		0.00586	0.000300	0.00100	mg/L	1.00	1					
Iron		2.23	0.0330	0.100	mg/L	1.00	1					
Magnesium		24.6	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.821	0.00100	0.00500	mg/L	1.00	1					
Potassium		13.8	0.0800	0.300	mg/L	1.00	1					
Sodium		40.9	0.0800	0.250	mg/L	1.00	1					
Calcium		95.2	1.60	4.00	mg/L	1.00	20	PRB	06/13/23	1512	2439741	7
Boron		1.05	0.130	0.375	mg/L	1.00	25	PRB	06/13/23	0921	2439741	8
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		593	2.38	10.0	mg/L			CH6	06/07/23	1447	2440211	9
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	06/09/23	1721	2440523	10
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		117	0.725	2.00	mg/L			JW2	06/08/23	1028	2440524	11
Bicarbonate alkalinity (CaCO3)		117	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

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Certificate of Analysis

Report Date: March 5, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater ComplianceAPBCD and Reanalysis: additional analysis for 624832

Client Sample ID:	BRA-IW-B-4	Project:	GPCC00101
Sample ID:	624831002	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	JD2	06/07/23	0730	2439740

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	GEL Field Method	
3	EPA 300.0	
4	EPA 300.0	
5	EPA 300.0	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SM 2540C	
10	SM 4500-S (2-) D	
11	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: March 5, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD and Reanalysis: additional analysis for 624832

Client Sample ID: BRA-IW-B-3
Sample ID: 624831003
Matrix: WG
Collect Date: 05-JUN-23 15:10
Receive Date: 06-JUN-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		8.40			SU			EOS1	06/05/23	1510	2439614	1
GEL Field Ferrous Iron "As Received"												
Field Ferrous Iron		0			mg/L			EOS1	06/05/23	1510	2439614	2
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		0.129	0.0330	0.100	mg/L		1	JLD1	06/06/23	1600	2439679	3
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Chloride		29.6	2.68	8.00	mg/L		40	JLD1	06/07/23	0932	2439679	4
Sulfate		636	5.32	16.0	mg/L		40					
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	PRB	06/12/23	2106	2439741	5
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron		0.123	0.0330	0.100	mg/L	1.00	1					
Magnesium		34.8	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.0701	0.00100	0.00500	mg/L	1.00	1					
Potassium		14.9	0.0800	0.300	mg/L	1.00	1					
Calcium		166	1.60	4.00	mg/L	1.00	20	PRB	06/13/23	1515	2439741	6
Sodium		50.0	1.60	5.00	mg/L	1.00	20					
Boron		1.28	0.130	0.375	mg/L	1.00	25	PRB	06/13/23	0923	2439741	7
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		826	4.76	20.0	mg/L			CH6	06/07/23	1447	2440211	8
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	06/09/23	1722	2440523	9
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		148	0.725	2.00	mg/L			JW2	06/08/23	1032	2440524	10
Bicarbonate alkalinity (CaCO3)		146	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)		2.20	0.725	2.00	mg/L							

The following Prep Methods were performed:

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: March 5, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater ComplianceAPBCD and Reanalysis: additional analysis for 624832

Client Sample ID:	BRA-IW-B-3	Project:	GPCC00101
Sample ID:	624831003	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	JD2	06/07/23	0730	2439740

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	GEL Field Method	
3	EPA 300.0	
4	EPA 300.0	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 4500-S (2-) D	
10	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: March 5, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-PZ-74I
Sample ID: 624832001
Matrix: WG
Collect Date: 06-JUN-23 09:40
Receive Date: 06-JUN-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		5.83			SU			EOS1	06/06/23	0940	2439624	1
GEL Field Ferrous Iron "As Received"												
Field Ferrous Iron		1.5			mg/L			EOS1	06/06/23	0940	2439624	2
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		304	5.32	16.0	mg/L		40	JLD1	06/07/23	0134	2439679	3
Chloride		8.22	0.0670	0.200	mg/L		1	JLD1	06/06/23	1911	2439679	4
Fluoride	J	0.0891	0.0330	0.100	mg/L		1					
Nitrate-N		0.793	0.0330	0.100	mg/L		1					
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	BAJ	06/12/23	1506	2439851	5
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron		1.38	0.0330	0.100	mg/L	1.00	1					
Magnesium		37.9	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.602	0.00100	0.00500	mg/L	1.00	1					
Potassium		5.65	0.0800	0.300	mg/L	1.00	1					
Selenium		0.0237	0.00150	0.00500	mg/L	1.00	1					
Sodium		28.8	0.0800	0.250	mg/L	1.00	1					
Boron		1.24	0.0520	0.150	mg/L	1.00	10	BAJ	06/13/23	1146	2439851	6
Calcium		70.1	0.800	2.00	mg/L	1.00	10					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		523	2.38	10.0	mg/L			CH6	06/07/23	1447	2440211	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	06/09/23	1723	2440523	8
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		43.4	0.725	2.00	mg/L			JW2	06/08/23	1036	2440524	9
Bicarbonate alkalinity (CaCO3)		43.4	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: March 5, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-PZ-74I	Project:	GPCC00101
Sample ID:	624832001	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	JD2	06/07/23	0730	2439850

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	GEL Field Method	
3	EPA 300.0	
4	EPA 300.0	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 4500-S (2-) D	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: March 5, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD and Reanalysis: additional analysis for 624832

Client Sample ID: BRA-PZ-74I
Sample ID: 627361001
Matrix: WG
Collect Date: 06-JUN-23 09:40
Receive Date: 06-JUN-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	hHU	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	07/12/23	0929	2456195	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1	PRB	07/18/23	2050	2450023	2
Barium		0.0586	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00258	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00704	0.00300	0.0100	mg/L	1.00	1					
Molybdenum		0.00276	0.000200	0.00100	mg/L	1.00	1					
Selenium		0.0262	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	07/19/23	0023	2450023	3

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	JD2	06/27/23	0750	2450022
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	07/11/23	1120	2456194

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

QC Summary

Report Date: March 5, 2024

Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia

Contact: **Joju Abraham**

Workorder: **624831**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography											
Batch 2439679											
QC1205425631 624831001 DUP											
Chloride			0.693		0.685	mg/L	1.22 ^		(+/-0.200)	JLD1	06/06/23 17:04
Fluoride			0.113		0.114	mg/L	1.32 ^		(+/-0.100)		
Nitrate-N		U	ND	U	ND	mg/L	N/A				06/06/23 22:54
Sulfate			62.1		61.9	mg/L	0.445		(0%-20%)		06/07/23 00:30
QC1205425630 LCS											
Chloride	5.00				4.83	mg/L		96.5	(90%-110%)		06/06/23 18:39
Fluoride	2.50				2.49	mg/L		99.6	(90%-110%)		
Nitrate-N	2.50				2.43	mg/L		97.2	(90%-110%)		
Sulfate	10.0				9.86	mg/L		98.6	(90%-110%)		
QC1205425629 MB											
Chloride				U	ND	mg/L					06/06/23 18:07
Fluoride				U	ND	mg/L					
Nitrate-N				U	ND	mg/L					
Sulfate				U	ND	mg/L					
QC1205425632 624831001 PS											
Chloride	5.00		0.693		5.45	mg/L		95.2	(90%-110%)		06/06/23 17:36

QC Summary

Workorder: **624831**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography											
Batch 2439679											
Fluoride	2.50		0.113		2.54	mg/L		97.1	(90%-110%)	JLD1	06/06/23 17:36
Nitrate-N	2.50	U	ND		2.22	mg/L		88.7*	(90%-110%)		06/06/23 23:26
Sulfate	10.0		6.21		16.1	mg/L		98.6	(90%-110%)		06/07/23 01:02
Metals Analysis - ICPMS											
Batch 2439741											
QC1205425680 LCS											
Beryllium	0.0500				0.0493	mg/L		98.5	(80%-120%)	PRB	06/12/23 20:08
Boron	0.100				0.0972	mg/L		97.2	(80%-120%)		
Cadmium	0.0500				0.0512	mg/L		102	(80%-120%)		
Calcium	2.00				2.07	mg/L		104	(80%-120%)		
Cobalt	0.0500				0.0503	mg/L		101	(80%-120%)		
Iron	2.00				1.97	mg/L		98.6	(80%-120%)		
Magnesium	2.00				1.96	mg/L		97.8	(80%-120%)		
Manganese	0.0500				0.0497	mg/L		99.4	(80%-120%)		
Potassium	2.00				2.02	mg/L		101	(80%-120%)		
Sodium	2.00				1.98	mg/L		99.2	(80%-120%)		
QC1205425679 MB											
Beryllium				U	ND	mg/L					06/12/23 20:04

QC Summary

Workorder: **624831**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2439741											
Boron				U	ND	mg/L				PRB	06/12/23 20:04
Cadmium				U	ND	mg/L					
Calcium				U	ND	mg/L					
Cobalt				U	ND	mg/L					
Iron				U	ND	mg/L					
Magnesium				U	ND	mg/L					
Manganese				U	ND	mg/L					
Potassium				U	ND	mg/L					
Sodium				U	ND	mg/L					
QC1205425681 624831001 MS											
Beryllium	0.0500	U	ND		0.0521	mg/L		104	(75%-125%)		06/12/23 20:48
Boron	0.100		0.366		0.478	mg/L		112	(75%-125%)		06/12/23 20:15
Cadmium	0.0500	U	ND		0.0535	mg/L		107	(75%-125%)		06/12/23 20:48
Calcium	2.00		36.8		40.0	mg/L		N/A	(75%-125%)		
Cobalt	0.0500	J	0.000852		0.0543	mg/L		107	(75%-125%)		
Iron	2.00		21.1		24.0	mg/L		N/A	(75%-125%)		

QC Summary

Workorder: **624831**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2439741											
Magnesium	2.00		5.14		7.32	mg/L		109	(75%-125%)	PRB	06/12/23 20:48
Manganese	0.0500		0.751		0.834	mg/L		N/A	(75%-125%)		
Potassium	2.00		11.6		14.3	mg/L		N/A	(75%-125%)		
Sodium	2.00		2.97		5.14	mg/L		108	(75%-125%)		
QC1205425682 624831001 MSD											
Beryllium	0.0500	U	ND		0.0505	mg/L	3.12	101	(0%-20%)		06/12/23 20:51
Boron	0.100		0.366		0.472	mg/L	1.29	106	(0%-20%)		06/12/23 20:19
Cadmium	0.0500	U	ND		0.0516	mg/L	3.58	103	(0%-20%)		06/12/23 20:51
Calcium	2.00		36.8		38.0	mg/L	5.01	N/A	(0%-20%)		
Cobalt	0.0500	J	0.000852		0.0515	mg/L	5.27	101	(0%-20%)		
Iron	2.00		21.1		22.9	mg/L	4.47	N/A	(0%-20%)		
Magnesium	2.00		5.14		7.02	mg/L	4.14	94.3	(0%-20%)		
Manganese	0.0500		0.751		0.793	mg/L	5.06	N/A	(0%-20%)		
Potassium	2.00		11.6		13.7	mg/L	4.08	N/A	(0%-20%)		
Sodium	2.00		2.97		4.87	mg/L	5.36	94.8	(0%-20%)		
QC1205425683 624831001 SDILT											
Beryllium		U	ND	U	ND	ug/L	N/A		(0%-20%)		06/12/23 20:59

QC Summary

Workorder: **624831**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2439741										
Boron		73.2		15.6	ug/L	6.23		(0%-20%)	PRB	06/12/23 20:26
Cadmium	U	ND	U	ND	ug/L	N/A		(0%-20%)		06/12/23 20:59
Calcium		36800		7010	ug/L	4.65		(0%-20%)		
Cobalt	J	0.852	U	ND	ug/L	N/A		(0%-20%)		
Iron		21100		4210	ug/L	.207		(0%-20%)		
Magnesium		5140		1060	ug/L	3.08		(0%-20%)		
Manganese		751		152	ug/L	1.08		(0%-20%)		
Potassium		11600		2200	ug/L	5.2		(0%-20%)		
Sodium		2970		591	ug/L	.607		(0%-20%)		
Solids Analysis										
Batch 2440211										
QC1205426456 624949002 DUP										
Total Dissolved Solids		134		138	mg/L	2.94		(0%-5%)	CH6	06/07/23 14:47
QC1205426452 LCS										
Total Dissolved Solids	300			302	mg/L		101	(95%-105%)		06/07/23 14:47
QC1205426451 MB										
Total Dissolved Solids			U	ND	mg/L					06/07/23 14:47

QC Summary

Workorder: **624831**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Spectrometric Analysis											
Batch 2440523											
QC1205427032 LCS											
Total Sulfide	0.400				0.399	mg/L		99.7	(85%-115%)	JW2	06/09/23 17:18
QC1205427031 MB											
Total Sulfide				U	ND	mg/L					06/09/23 17:18
QC1205427035 624713005 PS											
Total Sulfide	0.400	U	ND		0.406	mg/L		101	(75%-125%)		06/09/23 17:18
QC1205427036 624713005 PSD											
Total Sulfide	0.400	U	ND		0.403	mg/L	0.552	101	(0%-15%)		06/09/23 17:18
Titration and Ion Analysis											
Batch 2440524											
QC1205427040 624949002 DUP											
Alkalinity, Total as CaCO3			82.2		82.3	mg/L	0.122		(0%-20%)	JW2	06/08/23 10:41
Carbonate alkalinity (CaCO3)		U	ND	J	0.800	mg/L	200				
QC1205427039 LCS											
Alkalinity, Total as CaCO3	50.0				51.4	mg/L		103	(90%-110%)		06/08/23 10:20
QC1205427041 624949002 MS											
Alkalinity, Total as CaCO3	50.0		82.2		135	mg/L		105	(80%-120%)		06/08/23 10:43

Notes:

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- N Metals--The Matrix spike sample recovery is not within specified control limits
- H Analytical holding time was exceeded
- < Result is less than value reported
- > Result is greater than value reported

QC Summary

Workorder: **624831**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
Z	Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
d	5-day BOD--The 2:1 depletion requirement was not met for this sample
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
E	%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
E	General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
FB	Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
R	Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.
B	The target analyte was detected in the associated blank.
e	5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes
J	See case narrative for an explanation

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

QC Summary

Report Date: March 5, 2024

Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia

Contact: **Joju Abraham**

Workorder: **624832**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography												
Batch 2439679												
QC1205425631 624831001 DUP												
Chloride			0.693		0.685	mg/L	1.22	^	(+/-0.200)	JLD1	06/06/23	17:04
Fluoride			0.113		0.114	mg/L	1.32	^	(+/-0.100)			
Nitrate-N		U	ND	U	ND	mg/L	N/A				06/06/23	22:54
Sulfate			62.1		61.9	mg/L	0.445		(0%-20%)		06/07/23	00:30
QC1205425630 LCS												
Chloride	5.00				4.83	mg/L		96.5	(90%-110%)		06/06/23	18:39
Fluoride	2.50				2.49	mg/L		99.6	(90%-110%)			
Nitrate-N	2.50				2.43	mg/L		97.2	(90%-110%)			
Sulfate	10.0				9.86	mg/L		98.6	(90%-110%)			
QC1205425629 MB												
Chloride				U	ND	mg/L					06/06/23	18:07
Fluoride				U	ND	mg/L						
Nitrate-N				U	ND	mg/L						
Sulfate				U	ND	mg/L						
QC1205425632 624831001 PS												
Chloride	5.00		0.693		5.45	mg/L		95.2	(90%-110%)		06/06/23	17:36

QC Summary

Workorder: **624832**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography											
Batch 2439679											
Fluoride	2.50		0.113		2.54	mg/L		97.1	(90%-110%)	JLD1	06/06/23 17:36
Nitrate-N	2.50	U	ND		2.22	mg/L		88.7*	(90%-110%)		06/06/23 23:26
Sulfate	10.0		6.21		16.1	mg/L		98.6	(90%-110%)		06/07/23 01:02
Metals Analysis - ICPMS											
Batch 2439851											
QC1205425805 LCS											
Beryllium	0.0500				0.0612	mg/L		122*	(80%-120%)	BAJ	06/12/23 15:03
Boron	0.100				0.112	mg/L		112	(80%-120%)		06/13/23 11:45
Cadmium	0.0500				0.0528	mg/L		106	(80%-120%)		06/12/23 15:03
Calcium	2.00				2.15	mg/L		107	(80%-120%)		06/13/23 11:45
Iron	2.00				2.06	mg/L		103	(80%-120%)		06/12/23 15:03
Magnesium	2.00				2.22	mg/L		111	(80%-120%)		
Manganese	0.0500				0.0521	mg/L		104	(80%-120%)		
Potassium	2.00				2.07	mg/L		104	(80%-120%)		
Selenium	0.0500				0.0499	mg/L		99.7	(80%-120%)		
Sodium	2.00				2.18	mg/L		109	(80%-120%)		
QC1205425804 MB											
Beryllium				U	ND	mg/L					06/12/23 14:59

QC Summary

Workorder: **624832**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2439851										
Boron			U	ND	mg/L				BAJ	06/13/23 11:43
Cadmium			U	ND	mg/L					06/12/23 14:59
Calcium			U	ND	mg/L					06/13/23 11:43
Iron			U	ND	mg/L					06/12/23 14:59
Magnesium			U	ND	mg/L					
Manganese			U	ND	mg/L					
Potassium			U	ND	mg/L					
Selenium			U	ND	mg/L					
Sodium			U	ND	mg/L					
QC1205425806 624832001 MS										
Beryllium	0.0500	U	ND	0.0662	mg/L		132*	(75%-125%)		06/12/23 15:10
Boron	0.100		1.24	1.38	mg/L		N/A	(75%-125%)		06/13/23 11:48
Cadmium	0.0500	U	ND	0.0535	mg/L		107	(75%-125%)		06/12/23 15:10
Calcium	2.00		70.1	73.0	mg/L		N/A	(75%-125%)		06/13/23 11:48
Iron	2.00		1.38	3.47	mg/L		104	(75%-125%)		06/12/23 15:10
Magnesium	2.00		37.9	41.8	mg/L		N/A	(75%-125%)		

QC Summary

Workorder: **624832**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2439851											
Manganese	0.0500		0.602		0.681	mg/L		N/A	(75%-125%)	BAJ	06/12/23 15:10
Potassium	2.00		5.65		8.00	mg/L		117	(75%-125%)		
Selenium	0.0500		0.0237		0.0747	mg/L		102	(75%-125%)		
Sodium	2.00		28.8		32.5	mg/L		N/A	(75%-125%)		
QC1205425807 624832001 MSD											
Beryllium	0.0500	U	ND		0.0612	mg/L	7.92	122	(0%-20%)		06/12/23 15:14
Boron	0.100		1.24		1.34	mg/L	2.8	N/A	(0%-20%)		06/13/23 11:50
Cadmium	0.0500	U	ND		0.0511	mg/L	4.62	102	(0%-20%)		06/12/23 15:14
Calcium	2.00		70.1		71.0	mg/L	2.84	N/A	(0%-20%)		06/13/23 11:50
Iron	2.00		1.38		3.22	mg/L	7.5	91.9	(0%-20%)		06/12/23 15:14
Magnesium	2.00		37.9		39.5	mg/L	5.72	N/A	(0%-20%)		
Manganese	0.0500		0.602		0.640	mg/L	6.32	N/A	(0%-20%)		
Potassium	2.00		5.65		7.63	mg/L	4.73	98.9	(0%-20%)		
Selenium	0.0500		0.0237		0.0690	mg/L	7.9	90.6	(0%-20%)		
Sodium	2.00		28.8		30.2	mg/L	7.32	N/A	(0%-20%)		
QC1205430128 624832001 PS											
Beryllium	50.0	U	ND		61.0	ug/L		122	(75%-125%)		06/12/23 15:17

QC Summary

Workorder: **624832**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2439851										
QC1205425808 624832001 SDILT										
Beryllium	U	ND	U	ND	ug/L	N/A		(0%-20%)	BAJ	06/12/23 15:21
Boron		124		25.1	ug/L	1.01		(0%-20%)		06/13/23 11:52
Cadmium	U	ND	U	ND	ug/L	N/A		(0%-20%)		06/12/23 15:21
Calcium		7010		1440	ug/L	2.91		(0%-20%)		06/13/23 11:52
Iron		1380		287	ug/L	3.81		(0%-20%)		06/12/23 15:21
Magnesium		37900		7290	ug/L	3.77		(0%-20%)		
Manganese		602		124	ug/L	3.44		(0%-20%)		
Potassium		5650		1130	ug/L	.271		(0%-20%)		
Selenium		23.7	J	4.40	ug/L	7.28		(0%-20%)		
Sodium		28800		5590	ug/L	2.96		(0%-20%)		
Solids Analysis										
Batch 2440211										
QC1205426454 624719002 DUP										
Total Dissolved Solids		562		556	mg/L	1.07		(0%-5%)	CH6	06/07/23 14:47
QC1205426452 LCS										
Total Dissolved Solids	300			302	mg/L		101	(95%-105%)		06/07/23 14:47
QC1205426451 MB										
Total Dissolved Solids			U	ND	mg/L					06/07/23 14:47

QC Summary

Workorder: **624832**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Spectrometric Analysis											
Batch 2440523											
QC1205427032 LCS											
Total Sulfide	0.400				0.399	mg/L		99.7	(85%-115%)	JW2	06/09/23 17:18
QC1205427031 MB											
Total Sulfide				U	ND	mg/L					06/09/23 17:18
QC1205427035 624713005 PS											
Total Sulfide	0.400	U	ND		0.406	mg/L		101	(75%-125%)		06/09/23 17:18
QC1205427036 624713005 PSD											
Total Sulfide	0.400	U	ND		0.403	mg/L	0.552	101	(0%-15%)		06/09/23 17:18
Titration and Ion Analysis											
Batch 2440524											
QC1205427040 624949002 DUP											
Alkalinity, Total as CaCO3			82.2		82.3	mg/L	0.122		(0%-20%)	JW2	06/08/23 10:41
Carbonate alkalinity (CaCO3)		U	ND	J	0.800	mg/L	200				
QC1205427039 LCS											
Alkalinity, Total as CaCO3	50.0				51.4	mg/L		103	(90%-110%)		06/08/23 10:20
QC1205427041 624949002 MS											
Alkalinity, Total as CaCO3	50.0		82.2		135	mg/L		105	(80%-120%)		06/08/23 10:43

Notes:

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- N Metals--The Matrix spike sample recovery is not within specified control limits
- H Analytical holding time was exceeded
- < Result is less than value reported
- > Result is greater than value reported

QC Summary

Workorder: **624832**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
Z	Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
d	5-day BOD--The 2:1 depletion requirement was not met for this sample
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
E	%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
E	General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
FB	Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
R	Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.
B	The target analyte was detected in the associated blank.
e	5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes
J	See case narrative for an explanation

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

QC Summary

Report Date: March 5, 2024

Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia

Contact: **Joju Abraham**

Workorder: **627361**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2450023										
QC1205443726 LCS										
Antimony	0.0500			0.0492	mg/L		98.4	(80%-120%)	PRB	07/19/23 00:19
Arsenic	0.0500			0.0487	mg/L		97.4	(80%-120%)		07/18/23 20:46
Barium	0.0500			0.0499	mg/L		99.8	(80%-120%)		
Beryllium	0.0500			0.0548	mg/L		110	(80%-120%)		
Cadmium	0.0500			0.0505	mg/L		101	(80%-120%)		
Chromium	0.0500			0.0498	mg/L		99.6	(80%-120%)		
Cobalt	0.0500			0.0496	mg/L		99.2	(80%-120%)		
Lead	0.0500			0.0521	mg/L		104	(80%-120%)		
Lithium	0.0500			0.0532	mg/L		106	(80%-120%)		
Molybdenum	0.0500			0.0509	mg/L		102	(80%-120%)		
Selenium	0.0500			0.0489	mg/L		97.7	(80%-120%)		
Thallium	0.0500			0.0510	mg/L		102	(80%-120%)		
QC1205443725 MB										
Antimony			U	ND	mg/L					07/19/23 00:16

QC Summary

Workorder: **627361**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2450023										
Arsenic			U	ND	mg/L				PRB	07/18/23 20:43
Barium			U	ND	mg/L					
Beryllium			U	ND	mg/L					
Cadmium			U	ND	mg/L					
Chromium			U	ND	mg/L					
Cobalt			U	ND	mg/L					
Lead			U	ND	mg/L					
Lithium			U	ND	mg/L					
Molybdenum			U	ND	mg/L					
Selenium			U	ND	mg/L					
Thallium			U	ND	mg/L					
QC1205443727 627361001 MS										
Antimony	0.0500	U	ND	0.0495	mg/L		98.9	(75%-125%)		07/19/23 00:27
Arsenic	0.0500	U	ND	0.0504	mg/L		98.5	(75%-125%)		07/18/23 20:54
Barium	0.0500		0.0586	0.107	mg/L		96.5	(75%-125%)		
Beryllium	0.0500	U	ND	0.0569	mg/L		114	(75%-125%)		

QC Summary

Workorder: **627361**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2450023											
Cadmium	0.0500	U	ND		0.0493	mg/L		98.4	(75%-125%)	PRB	07/18/23 20:54
Chromium	0.0500	U	ND		0.0496	mg/L		99	(75%-125%)		
Cobalt	0.0500		0.00258		0.0516	mg/L		98	(75%-125%)		
Lead	0.0500	U	ND		0.0503	mg/L		101	(75%-125%)		
Lithium	0.0500	J	0.00704		0.0611	mg/L		108	(75%-125%)		
Molybdenum	0.0500		0.00276		0.0542	mg/L		103	(75%-125%)		
Selenium	0.0500		0.0262		0.0772	mg/L		102	(75%-125%)		
Thallium	0.0500	U	ND		0.0493	mg/L		98.5	(75%-125%)		
QC1205443728 627361001 MSD											
Antimony	0.0500	U	ND		0.0522	mg/L	5.35	104	(0%-20%)		07/19/23 00:30
Arsenic	0.0500	U	ND		0.0525	mg/L	4.09	103	(0%-20%)		07/18/23 20:57
Barium	0.0500		0.0586		0.109	mg/L	2.27	101	(0%-20%)		
Beryllium	0.0500	U	ND		0.0612	mg/L	7.36	122	(0%-20%)		
Cadmium	0.0500	U	ND		0.0519	mg/L	5.22	104	(0%-20%)		
Chromium	0.0500	U	ND		0.0527	mg/L	5.94	105	(0%-20%)		
Cobalt	0.0500		0.00258		0.0540	mg/L	4.65	103	(0%-20%)		

QC Summary

Workorder: **627361**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2450023											
Lead	0.0500	U	ND		0.0519	mg/L	2.97	104	(0%-20%)	PRB	07/18/23 20:57
Lithium	0.0500	J	0.00704		0.0648	mg/L	5.94	116	(0%-20%)		
Molybdenum	0.0500		0.00276		0.0570	mg/L	5.14	109	(0%-20%)		
Selenium	0.0500		0.0262		0.0814	mg/L	5.25	110	(0%-20%)		
Thallium	0.0500	U	ND		0.0504	mg/L	2.31	101	(0%-20%)		
QC1205443729 627361001 SDILT											
Antimony		U	ND	U	ND	ug/L	N/A		(0%-20%)		07/19/23 00:37
Arsenic		U	ND	U	ND	ug/L	N/A		(0%-20%)		07/18/23 21:04
Barium			58.6		11.6	ug/L	1.38		(0%-20%)		
Beryllium		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Cadmium		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Chromium		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Cobalt			2.58	J	0.526	ug/L	1.9		(0%-20%)		
Lead		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Lithium		J	7.04	U	ND	ug/L	N/A		(0%-20%)		
Molybdenum			2.76	J	0.532	ug/L	3.69		(0%-20%)		

QC Summary

Workorder: **627361**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2450023										
Selenium		26.2	J	4.52	ug/L	13.8		(0%-20%)	PRB	07/18/23 21:04
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Metals Analysis-Mercury										
Batch 2456195										
QC1205453947 627361001 DUP										
Mercury	hHU	ND	hHU	ND	mg/L	N/A			JP2	07/12/23 09:31
QC1205453946 LCS										
Mercury	0.00200			0.00201	mg/L		101	(80%-120%)		07/12/23 09:28
QC1205453945 MB										
Mercury			U	ND	mg/L					07/12/23 09:26
QC1205453948 627361001 MS										
Mercury	0.00200 hHU	ND	hH	0.00199	mg/L		99.6	(75%-125%)		07/12/23 09:33
QC1205453949 627361001 SDILT										
Mercury	hHU	ND	hHU	ND	ug/L	N/A		(0%-10%)		07/12/23 09:34

Notes:

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- N Metals--The Matrix spike sample recovery is not within specified control limits
- H Analytical holding time was exceeded
- < Result is less than value reported
- > Result is greater than value reported
- h Preparation or preservation holding time was exceeded
- R Sample results are rejected
- ^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
- N/A RPD or %Recovery limits do not apply.

QC Summary

Workorder: **627361**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

ND Analyte concentration is not detected above the detection limit

E %difference of sample and SD is >10%. Sample concentration must meet flagging criteria

NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

Q One or more quality control criteria have not been met. Refer to the applicable narrative or DER.

FB Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies

N1 See case narrative

Y Other specific qualifiers were required to properly define the results. Consult case narrative.

J See case narrative for an explanation

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 35
Analytical Batch: 2439741

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 14
Preparation Batch: 2439740

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
624831001	BRA-IW-B-5
624831002	BRA-IW-B-4
624831003	BRA-IW-B-3
1205425679	Method Blank (MB)**ICP-MS**
1205425680	Laboratory Control Sample (LCS)
1205425683	624831001(BRA-IW-B-5L) Serial Dilution (SD)
1205425681	624831001(BRA-IW-B-5S) Matrix Spike (MS)
1205425682	624831001(BRA-IW-B-5SD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

CRDL/PQL Requirements
The CRDL standard recoveries for SW846 6020B met the advisory control limits with the exception of calcium. Client sample concentrations were greater than two times the CRDL; therefore the data were not adversely affected.

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument.

Analyte	624831		
	001	002	003
Boron	5X	25X	25X
Calcium	1X	20X	20X
Sodium	1X	1X	20X

General Chemistry

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 31
Analytical Batch: 2439679

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
624831001	BRA-IW-B-5
624831002	BRA-IW-B-4
624831003	BRA-IW-B-3
1205425629	Method Blank (MB)
1205425630	Laboratory Control Sample (LCS)
1205425631	624831001(BRA-IW-B-5) Sample Duplicate (DUP)
1205425632	624831001(BRA-IW-B-5) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Matrix Spike (MS)/Post Spike (PS) Recovery Statement
The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Nitrate-N	1205425632 (BRA-IW-B-5PS)	88.7* (90%-110%)

Technical Information

Sample Dilutions
The following samples 1205425631 (BRA-IW-B-5DUP), 1205425632 (BRA-IW-B-5PS), 624831001 (BRA-IW-B-5), 624831002 (BRA-IW-B-4) and 624831003 (BRA-IW-B-3) were diluted because target analyte concentrations exceeded the calibration range. The following samples 1205425631 (BRA-IW-B-5DUP), 1205425632 (BRA-IW-B-5PS), 624831001 (BRA-IW-B-5) and 624831002 (BRA-IW-B-4) in this sample group were diluted due to matrix interference. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	624831		
	001	002	003
Chloride	1X	5X	40X
Nitrate-N	2X	5X	1X
Sulfate	10X	40X	40X

Sample Re-analysis
Sample 624831003 (BRA-IW-B-3) was re-analyzed to verify the result.

Miscellaneous Information

Manual Integrations
Samples 1205425631 (BRA-IW-B-5DUP), 624831001 (BRA-IW-B-5) and 624831003 (BRA-IW-B-3) were manually integrated to correctly position the baseline as set in the calibration standards.

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 20
Analytical Batch: 2440211

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
624831001	BRA-IW-B-5
624831002	BRA-IW-B-4
624831003	BRA-IW-B-3
1205426451	Method Blank (MB)
1205426452	Laboratory Control Sample (LCS)
1205426456	624949002(NonSDG) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments
Sample filtration took > 10 minutes; therefore as prescribed in the method, a reduced aliquot was used. 624831003 (BRA-IW-B-3).

Product: **Sulfide, Total**
Analytical Method: SM 4500-S (2-) D
Analytical Procedure: GL-GC-E-052 REV# 12
Analytical Batch: 2440523

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
624831001	BRA-IW-B-5
624831002	BRA-IW-B-4
624831003	BRA-IW-B-3
1205427031	Method Blank (MB)
1205427032	Laboratory Control Sample (LCS)
1205427035	624713005(NonSDG) Post Spike (PS)
1205427036	624713005(NonSDG) Post Spike Duplicate (PSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **Alkalinity**
Analytical Method: SM 2320B
Analytical Procedure: GL-GC-E-033 REV# 15
Analytical Batch: 2440524

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
624831001	BRA-IW-B-5
624831002	BRA-IW-B-4
624831003	BRA-IW-B-3
1205427039	Laboratory Control Sample (LCS)
1205427040	624949002(NonSDG) Sample Duplicate (DUP)
1205427041	624949002(NonSDG) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Duplicate Relative Percent Difference (RPD) Statement
Meets GEL's limits.

Sample	Analyte	Value
1205427040 (Non SDG 624949002DUP)	Carbonate alkalinity (CaCO3)	28.6* (0%-20%)

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 35
Analytical Batch: 2439851

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 14
Preparation Batch: 2439850

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
624832001	BRA-PZ-74I
1205425804	Method Blank (MB)**ICP-MS**
1205425805	Laboratory Control Sample (LCS)
1205425808	624832001(BRA-PZ-74IL) Serial Dilution (SD)
1205425806	624832001(BRA-PZ-74IS) Matrix Spike (MS)
1205425807	624832001(BRA-PZ-74ISD) Matrix Spike Duplicate (MSD)
1205430128	624832001(BRA-PZ-74IPS) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Quality Control (QC) Information

Laboratory Control Sample (LCS) Recovery
The analytes noted below recovered slightly high in the laboratory control sample (LCS), however, the sample in this SDG did not contain those analytes above the MDL, therefore the implied high bias did not adversely affect the results.

Sample	Analyte	Value
1205425805 (LCS)	Beryllium	122* (80%-120%)

Matrix Spike (MS/MSD) Recovery Statement
The percent recoveries (%R) obtained from the MS/MSD analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The MS/MSD (See Below) did not meet the recommended quality control acceptance criteria for percent recoveries for the following applicable analyte. The post spike recovery was within the required control limits. This verifies the absence of a matrix interference in the post-spike digested sample. The recovery may be attributed to possible sample matrix interference and/or non-homogeneity.

Sample	Analyte	Value
1205425806 (BRA-PZ-74IMS)	Beryllium	132* (75%-125%)

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument.

Analyte	624832
	001
Boron	10X
Calcium	10X

General Chemistry

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 31
Analytical Batch: 2439679

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
624832001	BRA-PZ-74I
1205425629	Method Blank (MB)
1205425630	Laboratory Control Sample (LCS)
1205425631	624831001(BRA-IW-B-5) Sample Duplicate (DUP)
1205425632	624831001(BRA-IW-B-5) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Matrix Spike (MS)/Post Spike (PS) Recovery Statement
The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less

than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Nitrate-N	1205425632 (BRA-IW-B-5PS)	88.7* (90%-110%)

Technical Information

Sample Dilutions
The following samples 1205425631 (BRA-IW-B-5DUP), 1205425632 (BRA-IW-B-5PS) and 624832001 (BRA-PZ-74I) were diluted because target analyte concentrations exceeded the calibration range. The following samples 1205425631 (BRA-IW-B-5DUP) and 1205425632 (BRA-IW-B-5PS) in this sample group were diluted due to matrix interference. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	624832 001
Sulfate	40X

Miscellaneous Information

Manual Integrations
Sample 1205425631 (BRA-IW-B-5DUP) was manually integrated to correctly position the baseline as set in the calibration standards.

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 20
Analytical Batch: 2440211

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
624832001	BRA-PZ-74I
1205426451	Method Blank (MB)
1205426452	Laboratory Control Sample (LCS)
1205426454	624719002(NonSDG) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments
Sample filtration took > 10 minutes; therefore as prescribed in the method, a reduced aliquot was used. 1205426454 (Non SDG 624719002DUP).

Product: **Sulfide, Total**
Analytical Method: SM 4500-S (2-) D
Analytical Procedure: GL-GC-E-052 REV# 12
Analytical Batch: 2440523

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
624832001	BRA-PZ-74I
1205427031	Method Blank (MB)
1205427032	Laboratory Control Sample (LCS)
1205427035	624713005(NonSDG) Post Spike (PS)
1205427036	624713005(NonSDG) Post Spike Duplicate (PSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **Alkalinity**
Analytical Method: SM 2320B
Analytical Procedure: GL-GC-E-033 REV# 15
Analytical Batch: 2440524

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
624832001	BRA-PZ-74I
1205427039	Laboratory Control Sample (LCS)
1205427040	624949002(NonSDG) Sample Duplicate (DUP)
1205427041	624949002(NonSDG) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Duplicate Relative Percent Difference (RPD) Statement
Meets GEL's limits.

Sample	Analyte	Value
1205427040 (Non SDG 624949002DUP)	Carbonate alkalinity (CaCO3)	28.6* (0%-20%)

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Technical Case Narrative
Georgia Power Company
SDG #: 627361

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 35
Analytical Batch: 2450023

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 14
Preparation Batch: 2450022

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
627361001	BRA-PZ-74I
1205443725	Method Blank (MB)**ICP-MS**
1205443726	Laboratory Control Sample (LCS)
1205443729	627361001(BRA-PZ-74IL) Serial Dilution (SD)
1205443727	627361001(BRA-PZ-74IS) Matrix Spike (MS)
1205443728	627361001(BRA-PZ-74ISD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**
Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 39
Analytical Batch: 2456195

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 39
Preparation Batch: 2456194

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification

627361001	BRA-PZ-74I
1205453945	Method Blank (MB)**CVAA**
1205453946	Laboratory Control Sample (LCS)
1205453949	627361001(BRA-PZ-74IL) Serial Dilution (SD)
1205453947	627361001(BRA-PZ-74ID) Sample Duplicate (DUP)
1205453948	627361001(BRA-PZ-74IS) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Holding Time Specifications
GEL assigns holding times based on the associated methodology. Holding time is measured by comparison of the date and time of sample collection to the date and time of sample preparation and analysis. Those holding times expressed in hours are calculated in the AlphaLIMS system. Those holding times expressed as days expire at midnight on the day of expiration. Samples (See Below) did not meet the specified holding time requirements. Samples were logged in beyond the required holding time.

Sample	Value
1205453947 (BRA-PZ-74IDUP)	Received 06-JUN-23, within holding, analyzed 12-JUL-23, out of holding 04-JUL-23 and Received 06-JUN-23, within holding, prepped 11-JUL-23, out of holding 04-JUL-23
1205453948 (BRA-PZ-74IMS)	Received 06-JUN-23, within holding, analyzed 12-JUL-23, out of holding 04-JUL-23 and Received 06-JUN-23, within holding, prepped 11-JUL-23, out of holding 04-JUL-23
1205453949 (BRA-PZ-74ISDILT)	Received 06-JUN-23, within holding, analyzed 12-JUL-23, out of holding 04-JUL-23 and Received 06-JUN-23, within holding, prepped 11-JUL-23, out of holding 04-JUL-23
627361001 (BRA-PZ-74I)	Received 06-JUN-23, within holding, analyzed 12-JUL-23, out of holding 04-JUL-23 and Received 06-JUN-23, within holding, prepped 11-JUL-23, out of holding 04-JUL-23

Radiochemistry

Product: **Radium-226+Radium-228 Calculation**
Analytical Method: Calculation
Analytical Procedure: GL-RAD-D-003 REV# 45
Analytical Batch: 2451867

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
627361001	BRA-PZ-74I

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **GFPC Ra228, Liquid**
Analytical Method: EPA 904.0/SW846 9320 Modified
Analytical Procedure: GL-RAD-A-063 REV# 5
Analytical Batch: 2451868

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
627361001	BRA-PZ-74I
1205446623	Method Blank (MB)
1205446624	627278001(NonSDG) Sample Duplicate (DUP)
1205446625	Laboratory Control Sample (LCS)
1205446626	Laboratory Control Sample Duplicate (LCSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Method Blank Criteria
The blank result (See Below) is greater than the MDC but less than the required detection limit.

Sample	Analyte	Value
1205446623 (MB)	Radium-228	Result: 2.55 pCi/L > MDA: 2.12 pCi/L <= RDL: 3.00 pCi/L

Duplication Criteria between LCS and LCSD
The Laboratory Control Sample and Laboratory Control Sample Duplicate (See Below) do not meet the duplication requirement; however, they both meet the spiked recovery requirement.

Sample	Analyte	Value
1205446625 (LCS) and 1205446626 (LCSD)	Radium-228	RPD 27.5* (0%-20%)

Technical Information

Negative > 3 sigma TPU
Sample result was more negative than the three sigma TPU. The background control chart was examined and the detector was determined to be fully functional.

Sample	Analyte	Value
1205446624 (Non SDG 627278001DUP)	Radium-228	Negative Result > 3 sigma value

Product: **Lucas Cell, Ra226, Liquid**
Analytical Method: EPA 903.1 Modified
Analytical Procedure: GL-RAD-A-008 REV# 15
Analytical Batch: 2451862

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
627361001	BRA-PZ-74I
1205446612	Method Blank (MB)
1205446613	627278001(NonSDG) Sample Duplicate (DUP)
1205446614	627278001(NonSDG) Matrix Spike (MS)
1205446615	Laboratory Control Sample (LCS)
1205446616	Laboratory Control Sample Duplicate (LCSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Duplication Criteria between QC Sample and Duplicate Sample
The Sample and the Duplicate, (See Below), did not meet the relative percent difference requirement; however, they do meet the relative error ratio requirement with the value listed below.

Sample	Analyte	Value
1205446613 (Non SDG 627278001DUP)	Radium-226	RPD 200* (0.0%-100.0%) RER 2.44 (0-3)

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Page: _____ of _____
Project # _____
GEL Quote #: _____
COC Number (1): _____
PO Number: _____

GEL Laboratories LLC 624831
gel.com | Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power | Phone # 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - BCD | Fax #
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: J. Bosshard ACC | Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS, NO3 EPA 300, SM 2540C	Total, Carb, & Bicarb Alk SM 2320B	NI Metals * EPA 6020	SH Sulfide SM 4500	<-- Preservative Type (6)
BRA-IW-B-5	06/05/23	1105	G	N	WG			3	✓	✓	✓	✓	field pH = 5.81; field ferrous iron = 6.0 mg/L
BRA-IW-B-4	06/05/23	1315	G	N	WG			3	✓	✓	✓	✓	field pH = 5.79; field ferrous iron = 2.0 mg/L
BRA-IW-B-3	06/05/23	1510	G	N	WG			3	✓	✓	✓	✓	field pH = 8.40; field ferrous iron = 0.0 mg/L

Comments
Note: extra sample is required for sample specific QC
Task_Code: BRA-CCR-ASSMT-2023S1

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	6/6/23	0824	1	6/6/23	8:24
2	6/6/23	1:14	2	6/6/23	13:0
3			3		

TAT Requested: Normal: x Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [x] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [x] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * **Metals: B,Ca,Co,Fe,Mg,Mn,K,Na**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] Yes [ ] No *Cooler Temp:* ____ °C

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **WD**=Drinking Water, **WG**=Groundwater, **WS**=Surface Water, **WW**=Waste Water, **WL**=Leachate, **SO**=Soil, **SE**=Sediment, **SL**=Sludge, **WQ**=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: CPCC	**SDG/AR/COC/Work Order:** 624831 FT
Received By: Thyasia Tatum	**Date Received:** 6/10/23
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier (Other)

Suspected Hazard Information	Yes	No	
			*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM / mR/Hr **Classified as: Rad 1 Rad 2 Rad 3**
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	**Comments/Qualifiers (Required for Non-Conforming Items)**
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: (Wet Ice) Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius **TEMP:** 2C
4	Daily check performed and passed on IR temperature gun?	✓			**Temperature Device Serial #:** IR2-20 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials MG Date 6/8/23 Page 1 of 1

GL-CHL-SR-001 Rev 7

Page: _____ of _____
Project # _____
GEL Quote #: _____
COC Number (1): _____
PO Number:

GEL Laboratories LLC 624832
gel.com Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power | Phone # 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - BCD | Fax #
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: D. Bers Ford ACC | Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS, NO3 EPA 300, SM 2540C	Total, Carb, & Bicarb Alk SM 2320B	Metals * EPA 6020, 7470	Sulfide SM 4500	NI						<-- Preservative Type (6)
BRA-PZ-741	06/06/23	0940	G	N	WG				✓	✓	✓	✓							field pH = 5.83 field ferrous iron = 1.5 mg/L

Comments
Note: extra sample is required for sample specific QC
Task_Code: BRA-CCR-ASSMT-2023S1

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	6/6/23	1534		6/6/23	1539
2			2		
3			3		

TAT Requested: Normal: x Rush: ____ Specify: _____ (Subject to Surcharge)

Fax Results: [ ] Yes [x] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [x] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * **Metals: B,Ca,Se,Fe,Mg,Mn,K,Na,Hg**

For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No *Cooler Temp:* 1 °C

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **WD**=Drinking Water, **WG**=Groundwater, **WS**=Surface Water, **WW**=Waste Water, **WL**=Leachate, **SO**=Soil, **SE**=Sediment, **SL**=Sludge, **WQ**=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B, 6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

ET

Client: GPCC	**SDG/AR/COC/Work Order:** 624-832
Received By: QG	**Date Received:** 6/6/23
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other n/a

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM / mR/Hr **Classified as: Rad 1 Rad 2 Rad 3**
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	**Comments/Qualifiers (Required for Non-Conforming Items)**
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: Wet Ice Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: 1°C
4	Daily check performed and passed on IR temperature gun?	✓			**Temperature Device Serial #:** IR2-20 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?			✓	Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials AS Date 6/7/23 Page 1 of 1

GL-CHL-SR-001 Rev 7

Page: _____ of _____
Project # _____
GEL Quote #: _____
COC Number (1): _____
PO Number:

GEL Laboratories LLC 624832
gel.com Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power | Phone # 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - BCD | Fax #
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: D. Bers Ford ACC | Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS, NO3 EPA 300, SM 2540C	Total, Carb, & Bicarb Alk SM 2320B	Metals * EPA 6020, 7470	Sulfide SM 4500	NI	<-- Preservative Type (6)	Comments
BRA-PZ-741	06/06/23	0940	G	N	WG				✓	✓	✓	✓			field pH = 5.83 field ferrous iron = 1.5 mg/L

Note: extra sample is required for sample specific QC
Task_Code: BRA-CCR-ASSMT-2023S1

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	[signature]	6/6/23	1534	[signature]	6/6/23	1539
2				2		
3				3		

TAT Requested: Normal: x Rush: ____ Specify: _____ (Subject to Surcharge)

Fax Results: [ ] Yes [x] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [x] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * Metals: B,Ca,Se,Fe,Mg,Mn,K,Na,Hg

For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No *Cooler Temp:* 1 °C

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **WD**=Drinking Water, **WG**=Groundwater, **WS**=Surface Water, **WW**=Waste Water, **WL**=Leachate, **SO**=Soil, **SE**=Sediment, **SL**=Sludge, **WQ**=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B, 6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic Hg= Mercury
Ba = Barium Se= Selenium
Cd = Cadmium Ag= Silver
Cr = Chromium MR= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

ET

Client: GPCC	**SDG/AR/COC/Work Order:** 624-832
Received By: QG	**Date Received:** 6/6/23
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other n/a

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM / mR/Hr **Classified as: Rad 1 Rad 2 Rad 3**
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	**Comments/Qualifiers (Required for Non-Conforming Items)**
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: Wet Ice Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: 1°C
4	Daily check performed and passed on IR temperature gun?	✓			**Temperature Device Serial #:** IR2-20 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?			✓	Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials AS Date 6/7/23 Page 1 of 1

GL-CHL-SR-001 Rev 7

List of current GEL Certifications as of 05 March 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122024-05
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-23-21
Utah NELAP	SC000122023-38
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

Low-Flow Test Report:

Test Date / Time: 6/5/2023 2:05:04 PM
Project: Plant Branch Ash Ponds
Operator Name: Jordan Berisford

Location Name: IW-B-3 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 36.06 ft** **Total Depth: 46.06 ft** **Initial Depth to Water: 13.27 ft**	**Pump Type: Peri Pump** **Tubing Type: Poly** **Pump Intake From TOC: 41 ft** **Estimated Total Volume Pumped: 16.2 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 250 ml/min** **Final Draw Down: 6 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965678**

Test Notes:
Sunny, sample time-1510. Fe2+= 0.0mg/L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 100	+/- 50	+/- 0.3	
6/5/2023 2:05 PM	00:00	8.02 pH	25.58 °C	832.77 µS/cm	0.63 mg/L	7.51 NTU	88.7 mV	13.27 ft	250.00 ml/min
6/5/2023 2:10 PM	05:00	8.36 pH	21.20 °C	897.81 µS/cm	0.21 mg/L	7.49 NTU	87.9 mV	13.80 ft	250.00 ml/min
6/5/2023 2:15 PM	10:00	8.42 pH	20.99 °C	895.85 µS/cm	0.21 mg/L	6.17 NTU	87.8 mV	13.80 ft	250.00 ml/min
6/5/2023 2:20 PM	15:00	8.44 pH	20.97 °C	898.84 µS/cm	0.23 mg/L	5.98 NTU	86.6 mV	13.80 ft	250.00 ml/min
6/5/2023 2:25 PM	20:00	8.45 pH	20.95 °C	892.59 µS/cm	0.19 mg/L	6.10 NTU	86.0 mV	13.80 ft	250.00 ml/min
6/5/2023 2:30 PM	25:00	8.46 pH	20.84 °C	889.86 µS/cm	0.19 mg/L	6.27 NTU	85.5 mV	13.80 ft	250.00 ml/min
6/5/2023 2:35 PM	30:00	8.44 pH	21.19 °C	896.82 µS/cm	0.17 mg/L	5.76 NTU	84.8 mV	13.80 ft	250.00 ml/min
6/5/2023 2:40 PM	35:00	8.44 pH	21.38 °C	890.34 µS/cm	0.16 mg/L	5.55 NTU	84.5 mV	13.80 ft	250.00 ml/min
6/5/2023 2:45 PM	40:00	8.43 pH	21.38 °C	894.11 µS/cm	0.15 mg/L	5.38 NTU	83.9 mV	13.80 ft	250.00 ml/min
6/5/2023 2:50 PM	45:00	8.42 pH	21.28 °C	888.07 µS/cm	0.15 mg/L	5.59 NTU	83.8 mV	13.80 ft	250.00 ml/min
6/5/2023 2:55 PM	50:00	8.42 pH	21.37 °C	889.06 µS/cm	0.17 mg/L	5.42 NTU	83.1 mV	13.80 ft	250.00 ml/min
6/5/2023 3:00 PM	55:00	8.41 pH	21.44 °C	885.68 µS/cm	0.15 mg/L	5.80 NTU	82.7 mV	13.80 ft	250.00 ml/min
6/5/2023 3:05 PM	01:00:00	8.41 pH	21.29 °C	884.04 µS/cm	0.16 mg/L	5.28 NTU	82.3 mV	13.80 ft	250.00 ml/min
6/5/2023 3:10 PM	01:05:00	8.40 pH	21.34 °C	891.16 µS/cm	0.17 mg/L	4.29 NTU	81.8 mV	13.80 ft	250.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 6/5/2023 12:30:21 PM
Project: Plant Branch Ash Ponds
Operator Name: Jordan Berisford

Location Name: IW-B-4 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 27.4 ft** **Total Depth: 37.4 ft** **Initial Depth to Water: 20.2 ft**	**Pump Type: Peri Pump** **Tubing Type: Poly** **Pump Intake From TOC: 32 ft** **Estimated Total Volume Pumped: 10.1 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 225 ml/min** **Final Draw Down: 1 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965678**

Test Notes:
Sunny, sample time 1315, Fe2+=2.0 mg/L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 100	+/- 50	+/- 0.3	
6/5/2023 12:30 PM	00:00	5.81 pH	31.39 °C	527.43 µS/cm	2.36 mg/L	5.11 NTU	78.8 mV	20.20 ft	225.00 ml/min
6/5/2023 12:35 PM	05:00	5.78 pH	23.74 °C	616.74 µS/cm	0.32 mg/L	2.59 NTU	72.7 mV	20.30 ft	225.00 ml/min
6/5/2023 12:40 PM	10:00	5.78 pH	23.75 °C	613.81 µS/cm	0.22 mg/L	2.42 NTU	71.5 mV	20.30 ft	225.00 ml/min
6/5/2023 12:45 PM	15:00	5.77 pH	23.06 °C	620.46 µS/cm	0.18 mg/L	1.73 NTU	72.1 mV	20.30 ft	225.00 ml/min
6/5/2023 12:50 PM	20:00	5.77 pH	22.89 °C	628.65 µS/cm	0.18 mg/L	1.59 NTU	71.8 mV	20.30 ft	225.00 ml/min
6/5/2023 12:55 PM	25:00	5.79 pH	23.03 °C	633.87 µS/cm	0.15 mg/L	1.29 NTU	71.2 mV	20.30 ft	225.00 ml/min
6/5/2023 1:00 PM	30:00	5.79 pH	23.12 °C	635.88 µS/cm	0.14 mg/L	2.07 NTU	70.8 mV	20.30 ft	225.00 ml/min
6/5/2023 1:05 PM	35:00	5.80 pH	23.07 °C	631.49 µS/cm	0.13 mg/L	3.22 NTU	70.8 mV	20.30 ft	225.00 ml/min
6/5/2023 1:10 PM	40:00	5.80 pH	23.07 °C	638.39 µS/cm	0.13 mg/L	2.06 NTU	70.6 mV	20.30 ft	225.00 ml/min
6/5/2023 1:15 PM	45:00	5.79 pH	23.11 °C	633.56 µS/cm	0.12 mg/L	0.70 NTU	70.9 mV	20.30 ft	225.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 6/5/2023 9:50:13 AM
Project: Plant Branch Ash Ponds
Operator Name: Jordan Berisford

Location Name: IW-B-5 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 22.47 ft** **Total Depth: 32.47 ft** **Initial Depth to Water: 24.73 ft**	**Pump Type: Peri Pump** **Tubing Type: Poly** **Pump Intake From TOC: 29 ft** **Estimated Total Volume Pumped: 16.8 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 225 ml/min** **Final Draw Down: 2 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965678**

Test Notes:
Sunny, sample time -1105

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 100	+/- 50	+/- 0.3	
6/5/2023 9:50 AM	00:00	5.63 pH	19.99 °C	241.37 µS/cm	0.37 mg/L	16.00 NTU	94.5 mV	24.73 ft	225.00 ml/min
6/5/2023 9:55 AM	05:00	5.68 pH	20.04 °C	246.72 µS/cm	0.25 mg/L	15.00 NTU	87.0 mV	24.90 ft	225.00 ml/min
6/5/2023 10:00 AM	10:00	5.89 pH	20.53 °C	245.72 µS/cm	5.95 mg/L	15.00 NTU	73.8 mV	24.90 ft	225.00 ml/min
6/5/2023 10:05 AM	15:00	6.11 pH	21.66 °C	251.75 µS/cm	8.28 mg/L	15.00 NTU	36.0 mV	24.90 ft	225.00 ml/min
6/5/2023 10:10 AM	20:00	6.03 pH	22.63 °C	237.20 µS/cm	5.34 mg/L	14.00 NTU	9.9 mV	24.90 ft	225.00 ml/min
6/5/2023 10:15 AM	25:00	5.86 pH	22.31 °C	232.17 µS/cm	2.86 mg/L	15.00 NTU	34.3 mV	24.90 ft	225.00 ml/min
6/5/2023 10:20 AM	30:00	5.77 pH	20.57 °C	243.94 µS/cm	0.29 mg/L	13.00 NTU	44.1 mV	24.90 ft	225.00 ml/min
6/5/2023 10:25 AM	35:00	5.76 pH	20.54 °C	247.56 µS/cm	0.21 mg/L	12.00 NTU	41.8 mV	24.90 ft	225.00 ml/min
6/5/2023 10:30 AM	40:00	5.78 pH	20.50 °C	246.42 µS/cm	0.20 mg/L	9.72 NTU	38.9 mV	24.90 ft	225.00 ml/min
6/5/2023 10:35 AM	45:00	5.78 pH	20.56 °C	248.12 µS/cm	0.18 mg/L	7.17 NTU	36.8 mV	24.90 ft	225.00 ml/min
6/5/2023 10:40 AM	50:00	5.79 pH	20.77 °C	245.29 µS/cm	0.17 mg/L	6.58 NTU	34.2 mV	24.90 ft	225.00 ml/min
6/5/2023 10:45 AM	55:00	5.79 pH	20.75 °C	245.77 µS/cm	0.17 mg/L	6.94 NTU	34.1 mV	24.90 ft	225.00 ml/min
6/5/2023 10:50 AM	01:00:00	5.79 pH	20.97 °C	246.83 µS/cm	0.17 mg/L	6.22 NTU	32.0 mV	24.90 ft	225.00 ml/min
6/5/2023 10:55 AM	01:05:00	5.80 pH	20.90 °C	248.50 µS/cm	0.17 mg/L	5.92 NTU	31.0 mV	24.90 ft	225.00 ml/min
6/5/2023 11:00 AM	01:10:00	5.80 pH	20.99 °C	246.70 µS/cm	0.17 mg/L	5.30 NTU	30.6 mV	24.90 ft	225.00 ml/min

6/5/2023 11:05 AM	01:15:00	5.81 pH	21.06 °C	245.79 µS/cm	0.16 mg/L	4.00 NTU	29.1 mV	24.90 ft	225.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

ANALYTICAL REPORT

February 09, 2018

Resolute Environmental & Water Resources

Sample Delivery Group:	L968437
Samples Received:	02/07/2018
Project Number:	
Description:	Plant Branch Investigation

Report To: Brian Steele
1003 Weatherstone Parkway
Suite 320
Woodstock, GA 30188

Entire Report Reviewed By:

Chris McCord
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

TABLE OF CONTENTS

Cp: Cover Page 1

Tc: Table of Contents 2

Ss: Sample Summary 3

Cn: Case Narrative 4

Sr: Sample Results 5

MW-C1-06 L968437-01 5

FBL020518 L968437-02 6

EQBL020518 L968437-03 7

MW-C2-02 L968437-04 8

MW-DUP-1 L968437-05 9

FBL020618 L968437-06 10

EQBL020618 L968437-07 11

Qc: Quality Control Summary 12

Metals (ICP) by Method 6010B 12

Gl: Glossary of Terms 13

Al: Accreditations & Locations 14

Sc: Sample Chain of Custody 15

MW-C1-06 L968437-01 GW

Collected by: Robert Mull | Collected date/time: 02/05/18 14:00 | Received date/time: 02/07/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG1071303	1	02/08/18 11:56	02/08/18 18:44	TRB

FBL020518 L968437-02 GW

Collected by: Robert Mull | Collected date/time: 02/05/18 15:50 | Received date/time: 02/07/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG1071303	1	02/08/18 11:56	02/08/18 19:10	TRB

EQBL020518 L968437-03 GW

Collected by: Robert Mull | Collected date/time: 02/05/18 15:55 | Received date/time: 02/07/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG1071303	1	02/08/18 11:56	02/08/18 19:13	TRB

MW-C2-02 L968437-04 GW

Collected by: Robert Mull | Collected date/time: 02/06/18 13:52 | Received date/time: 02/07/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG1071303	1	02/08/18 11:56	02/08/18 19:16	TRB

MW-DUP-1 L968437-05 GW

Collected by: Robert Mull | Collected date/time: 02/06/18 00:00 | Received date/time: 02/07/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG1071303	1	02/08/18 11:56	02/08/18 19:19	TRB

FBL020618 L968437-06 GW

Collected by: Robert Mull | Collected date/time: 02/06/18 10:25 | Received date/time: 02/07/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG1071303	1	02/08/18 11:56	02/08/18 19:21	TRB

EQBL020618 L968437-07 GW

Collected by: Robert Mull | Collected date/time: 02/06/18 10:30 | Received date/time: 02/07/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG1071303	1	02/08/18 11:56	02/08/18 19:24	TRB

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Chris McCord
Technical Service Representative

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Arsenic	0.0130		0.0100	1	02/08/2018 18:44	WG1071303
Cadmium	0.0108		0.00200	1	02/08/2018 18:44	WG1071303
Lead	0.00624		0.00500	1	02/08/2018 18:44	WG1071303

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Arsenic	ND		0.0100	1	02/08/2018 19:10	WG1071303
Cadmium	ND		0.00200	1	02/08/2018 19:10	WG1071303
Lead	ND		0.00500	1	02/08/2018 19:10	WG1071303

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Arsenic	ND		0.0100	1	02/08/2018 19:13	WG1071303
Cadmium	ND		0.00200	1	02/08/2018 19:13	WG1071303
Lead	ND		0.00500	1	02/08/2018 19:13	WG1071303

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Lead	0.0353		0.00500	1	02/08/2018 19:16	WG1071303

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Lead	0.0376		0.00500	1	02/08/2018 19:19	WG1071303

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Arsenic	ND		0.0100	1	02/08/2018 19:21	WG1071303
Cadmium	ND		0.00200	1	02/08/2018 19:21	WG1071303
Lead	ND		0.00500	1	02/08/2018 19:21	WG1071303

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Arsenic	ND		0.0100	1	02/08/2018 19:24	WG1071303
Cadmium	ND		0.00200	1	02/08/2018 19:24	WG1071303
Lead	ND		0.00500	1	02/08/2018 19:24	WG1071303

Method Blank (MB)

(MB) R3285104-1 02/08/18 18:36

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic	U		0.0065	0.0100
Cadmium	U		0.0007	0.00200
Lead	U		0.0019	0.00500

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3285104-2 02/08/18 18:39 • (LCSD) R3285104-3 02/08/18 18:41

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Arsenic	1.00	0.985	0.988	98.5	98.8	80-120			0.257	20
Cadmium	1.00	0.966	0.968	96.6	96.8	80-120			0.194	20
Lead	1.00	1.00	1.00	100	100	80-120			0.157	20

L968437-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L968437-01 02/08/18 18:44 • (MS) R3285104-5 02/08/18 18:49 • (MSD) R3285104-6 02/08/18 18:51

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	1.00	0.0130	0.886	0.893	87.3	88	1	75-125			0.819	20
Cadmium	1.00	0.0108	0.879	0.885	86.8	87.4	1	75-125			0.688	20
Lead	1.00	0.00624	1.02	1.02	101	101	1	75-125			0.42	20

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey–NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Connecticut	PH-0197	North Carolina [1]	DW21704
Florida	E87487	North Carolina [2]	41
Georgia	NELAP	North Dakota	R-140
Georgia [1]	923	Ohio–VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky [1]	90010	South Dakota	n/a
Kentucky [2]	16	Tennessee [1 4]	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold n/a Accreditation not applicable

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. ESC Lab Sciences performs all testing at our central laboratory.

Resolute Environmental Water Resources

1003 Weatherstone Parkway

Billing Information:
Brian Steele
1003 Weatherstone Pkwy. Ste 500
Woodstock, GA 30188

Report to: Brian Steele

Email To: Brian.Steele@ResoluteEnv.com
Stephen.Wilson@ResoluteEnv.com

Project Description: Plant Branch Investigation

City/State Collected: Milledgeville, GA

Phone: 404-358-8469
Fax:

Client Project #

Lab Project # RESENVWGA-MILLEDGE

Collected by (print): Robert Mull

Site/Facility ID #

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Pres

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Ctrs	Total As, Cd, Pb 250mL HDPE - HNO3	Total Pb 250mL HDPE - HNO3									Remarks	Sample # (lab only)
MW-CL-06 (MS/MSD)	Grab	GW		2/5/18	1400	3	X											-01
FBL020518	Grab	OT		2/5/18	1550	1	X											-02
EQBL020518	Grab	OT		2/5/18	1555	1	X											-03
MW-CL-02	Grab	GW		2/6/18	1352	1		X										-04
MW-Dup-1	Grab	GW		2/6/18	—	1		X										-05
FBL020618	Grab	OT		2/6/18	1025	1	X											-06
EQBL020618	Grab	OT		2/6/18	1030	1	X											-07

Chain of Custody Page ___ of ___

ESC LAB SCIENCES
a subsidiary of Resolute

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 163457

G225

Acctnum:
Template:
Prelogin:
TSR:
PB:

Shipped Via: 1-7-18

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other DI Water

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__UPS __FedEx __Courier ____

Tracking # 4269 9201 5396

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
	2/6/18	1540	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
			838
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Trip Blank Received: Yes / No
HCL / MeoH
TBR

Temp: 1.6 °C Bottles Received: 9-BR

Date: 02-07-18 Time: 0845

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

Product Name: Low-Flow System

Date: 2018-03-27 15:31:29

Project Information:		Pump Information:	
Operator Name	Robert Mull	Pump Model/Type	GeoPump
Company Name	Resolute Env	Tubing Type	LDPE
Project Name	DPT Investigation	Tubing Diameter	.17 in
Site Name	Plant Branch	Tubing Length	25 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	465016		
Turbidity Make/Model	NA	Pump placement from TOC	20 ft

Well Information:		Pumping Information:	
Well ID	DPT-01	Final Pumping Rate	210 mL/min
Well diameter	1 in	Total System Volume	0.2015856 L
Well Total Depth	20 ft	Calculated Sample Rate	120 sec
Screen Length	5 ft	Stabilization Drawdown	0 in
Depth to Water	14.95 ft	Total Volume Pumped	2 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 1000%		+/- 1000%	+/- 10000%
Last 5	15:21:22	120.09	31.92	4.18	4241.33	--	--	1.16	206.80
Last 5	15:23:22	240.03	30.95	4.33	4291.51	--	--	1.82	195.52
Last 5	15:25:22	360.04	30.11	4.34	4332.35	--	--	3.81	191.88
Last 5	15:27:22	480.03	29.52	4.34	4315.63	--	--	4.29	190.55
Last 5	15:29:22	600.04	28.12	4.38	4314.10	--	--	5.04	188.43
Variance 0			-0.84	0.01	40.84			1.99	-3.64
Variance 1			-0.59	-0.00	-16.71			0.49	-1.33
Variance 2			-1.40	0.05	-1.53			0.74	-2.12

Notes

Temp well went dry while purging

Grab Samples

Product Name: Low-Flow System

Date: 2018-03-28 09:26:40

Project Information:		Pump Information:	
Operator Name	Robert Mull	Pump Model/Type	GeoPump
Company Name	Resolute Env	Tubing Type	LDPE
Project Name	DPT Investigation	Tubing Diameter	.17 in
Site Name	Plant Branch	Tubing Length	20 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	465016		
Turbidity Make/Model	NA	Pump placement from TOC	15 ft

Well Information:		Pumping Information:	
Well ID	DPT-02	Final Pumping Rate	140 mL/min
Well diameter	1 in	Total System Volume	0.1792685 L
Well Total Depth	15 ft	Calculated Sample Rate	60 sec
Screen Length	5 ft	Stabilization Drawdown	0 in
Depth to Water	8.62 ft	Total Volume Pumped	2.3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 1000%		+/- 1000%	+/- 10000%
Last 5	09:21:52	540.04	22.66	3.91	2126.12	--	--	1.24	151.59
Last 5	09:22:52	600.04	22.53	3.97	2150.78	--	--	1.17	152.89
Last 5	09:23:52	660.04	22.44	4.02	2170.18	--	--	1.56	154.01
Last 5	09:24:52	720.04	22.30	4.01	2180.77	--	--	2.09	155.97
Last 5	09:25:52	780.04	22.28	4.01	2172.98	--	--	2.34	158.43
Variance 0			-0.09	0.04	19.40			0.39	1.12
Variance 1			-0.14	-0.00	10.59			0.53	1.96
Variance 2			-0.02	0.00	-7.79			0.25	2.46

Notes

Grab Samples

DPT-04

Report Created: 2018-03-26 15:32:51
Site: Plant Branch
GPS:
Log Created: 2018-03-26 15:31:52
Number Readings: 5
Battery Type: SmarTROLLâ„¢ Battery Pack
Battery SN: 476554
Device Type: SmarTROLLâ„¢ MP
Device SN: 465016

Created	Baro (mbar)	Temp (C)	RDO (mg/L)	RDO Sat (%)	pH (pH)	ORP (mV)	Act Cond (ÂµS/cm)	Sp Cond (mS/cm)	Salinity (psu)	Resist (Ohm-cm)	Density (g/cm^3)	TDS (ppt)	Depth (ft)	Pressure (psi)	Air Temp (C)
3/26/2018 15:31	1018.5	16.5	7.46	76.9	3.91	162	4288.1	5.15	2.8	233	1.001	3	0	0.001	14.3
3/26/2018 15:32	1018.4	16.64	5.42	56.2	3.92	161	4202.9	5.01	2.7	238	1.001	3	0.01	0.004	14.3
3/26/2018 15:32	1018.4	16.71	4.19	43.6	3.96	160.5	4194.1	4.99	2.7	238	1.001	3	-0.02	-0.009	14.3
3/26/2018 15:32	1018.5	16.91	3.32	34.6	3.99	160.4	4180.7	4.96	2.7	239	1.001	3	0.01	0.002	14.3
3/26/2018 15:32	1018.6	17.12	2.73	28.5	4.02	160.4	4170.8	4.92	2.7	240	1.001	3	-0.02	-0.009	14.3

DPT-05

Report Created: 2018-03-27 10:04:22
Site: Plant Branch
GPS:
Log Created: 2018-03-27 10:03:27
Number Readings: 6
Battery Type: SmarTROLLâ„¢ Battery Pack
Battery SN: 476554
Device Type: SmarTROLLâ„¢ MP
Device SN: 465016

Created	Baro (mbar)	Temp (C)	RDO (mg/L)	RDO Sat (%)	pH (pH)	ORP (mV)	Act Cond (ÂµS/cm)	Sp Cond (mS/cm)	Salinity (psu)	Resist (Ohm-cm)	Density (g/cm^3)	TDS (ppt)	Depth (ft)	Pressure (psi)	Air Temp (C)
3/27/2018 10:03	1019.7	13.49	7.27	69.9	4.41	165.2	1918.2	2.45	1.3	521	1	2	0	0	12.3
3/27/2018 10:03	1019.7	13.5	7.27	69.9	4.4	157.4	1908.8	2.45	1.3	524	1	2	0	0.001	12.3
3/27/2018 10:03	1019.6	13.58	7.06	67.9	4.39	152.7	1907.5	2.44	1.3	524	1	2	0.01	0.005	12.3
3/27/2018 10:03	1019.6	13.71	6.93	66.8	4.39	149	1907.7	2.44	1.3	524	1	2	0.02	0.008	12.3
3/27/2018 10:04	1019.7	13.85	6.83	66	4.39	146.3	1910.3	2.43	1.3	523	1	2	0.06	0.026	12.3
3/27/2018 10:04	1019.6	13.98	6.76	65.5	4.39	144.8	1911.7	2.43	1.3	523	1	2	0.02	0.008	12.3

DPT-06

Report Created: 2018-03-27 11:16:15
Site: Plant Branch
GPS:
Log Created: 2018-03-27 11:15:16
Number Readings: 6
Battery Type: SmarTROLLâ„¢ Battery Pack
Battery SN: 476554
Device Type: SmarTROLLâ„¢ MP
Device SN: 465016

Created	Baro (mbar)	Temp (C)	RDO (mg/L)	RDO Sat (%)	pH (pH)	ORP (mV)	Act Cond (ÂµS/cm)	Sp Cond (mS/cm)	Salinity (psu)	Resist (Ohm-cm)	Density (g/cm^3)	TDS (ppt)	Depth (ft)	Pressure (psi)	Air Temp (C)
3/27/2018 11:15	1019.7	13.49	10.6	100.2	5.1	141.4	2359.5	3.09	1.6	424	1.001	2	-0.02	-0.011	12.4
3/27/2018 11:15	1019.7	13.99	5.86	56.7	5.28	134.7	2315.4	2.95	1.5	432	1	2	0	-0.001	12.4
3/27/2018 11:15	1019.7	14.12	4.09	39.8	5.39	130.2	2318.5	2.93	1.5	431	1	2	-0.03	-0.015	12.4
3/27/2018 11:15	1019.7	14.3	2.93	28.6	5.48	125.6	2322.4	2.93	1.5	431	1	2	-0.03	-0.013	12.4
3/27/2018 11:15	1019.7	14.58	2.16	21.2	5.55	122.4	2321.5	2.91	1.5	431	1	2	-0.01	-0.003	12.4
3/27/2018 11:16	1019.8	14.87	1.65	16.3	5.6	120.1	2319.6	2.89	1.5	431	1	2	0.01	0.003	12.4

Product Name: Low-Flow System

Date: 2018-03-27 13:55:13

Project Information:		Pump Information:	
Operator Name	Robert Mill	Pump Model/Type	GeoPump
Company Name	Resolute Env	Tubing Type	LDPE
Project Name	DPT Investigation	Tubing Diameter	.17 in
Site Name	Plant Branch	Tubing Length	14 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	465016		
Turbidity Make/Model	NA	Pump placement from TOC	10 ft

Well Information:		Pumping Information:	
Well ID	DPT-07	Final Pumping Rate	190 mL/min
Well diameter	1 in	Total System Volume	0.1524879 L
Well Total Depth	10 ft	Calculated Sample Rate	120 sec
Screen Length	5 ft	Stabilization Drawdown	0 in
Depth to Water	6.40 ft	Total Volume Pumped	4 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 1000%		+/- 1000%	+/- 1000%
Last 5	13:46:48	360.04	19.94	3.97	1320.95	--	--	0.49	130.07
Last 5	13:48:49	481.03	19.94	3.98	1333.26	--	--	0.59	130.69
Last 5	13:50:49	601.04	19.81	3.97	1359.29	--	--	0.71	132.70
Last 5	13:52:49	721.04	19.50	3.97	1352.44	--	--	0.71	134.12
Last 5	13:54:49	841.05	19.27	3.93	1353.65	--	--	0.69	137.31
Variance 0			-0.14	-0.01	26.03			0.12	2.01
Variance 1			-0.31	0.00	-6.85			-0.01	1.42
Variance 2			-0.23	-0.04	1.22			-0.01	3.19

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2018-03-27 16:44:39

Project Information:		Pump Information:	
Operator Name	Robert Mull	Pump Model/Type	GeoPump
Company Name	Resolute Env	Tubing Type	LDPE
Project Name	DPT Investigation	Tubing Diameter	.17 in
Site Name	Plant Branch	Tubing Length	25 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	465016		
Turbidity Make/Model	NA	Pump placement from TOC	20 ft

Well Information:		Pumping Information:	
Well ID	DPT-08	Final Pumping Rate	200 mL/min
Well diameter	1 in	Total System Volume	0.2015856 L
Well Total Depth	20 ft	Calculated Sample Rate	60 sec
Screen Length	5 ft	Stabilization Drawdown	0 in
Depth to Water	12.08 ft	Total Volume Pumped	2 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 1000%		+/- 1000%	+/- 10000%
Last 5	16:39:09	180.02	26.61	4.14	4503.70	--	--	0.49	179.54
Last 5	16:40:09	240.03	26.42	4.18	4626.09	--	--	0.57	178.60
Last 5	16:41:09	300.03	26.21	4.22	4867.50	--	--	0.83	177.14
Last 5	16:42:09	360.03	26.19	4.25	5008.78	--	--	2.36	176.34
Last 5	16:43:10	421.04	26.25	4.23	5032.61	--	--	3.12	176.48
Variance 0			-0.20	0.04	241.41			0.27	-1.47
Variance 1			-0.02	0.02	141.28			1.52	-0.80
Variance 2			0.06	-0.02	23.83			0.77	0.14

Notes

Temp well went dry

Grab Samples

Product Name: Low-Flow System

Date: 2018-03-28 10:21:37

Project Information:		Pump Information:	
Operator Name	Robert Mull	Pump Model/Type	GeoPump
Company Name	Resolute Env	Tubing Type	LDPE
Project Name	DPT Investigation	Tubing Diameter	.17 in
Site Name	Plant Branch	Tubing Length	25 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	465016		
Turbidity Make/Model	NA	Pump placement from TOC	20 ft

Well Information:		Pumping Information:	
Well ID	DPT-09	Final Pumping Rate	130 mL/min
Well diameter	1 in	Total System Volume	0.2015856 L
Well Total Depth	20 ft	Calculated Sample Rate	60 sec
Screen Length	5 ft	Stabilization Drawdown	0 in
Depth to Water	12.05 ft	Total Volume Pumped	2 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 1000%		+/- 1000%	+/- 10000%
Last 5	10:16:05	600.03	23.92	4.29	4046.75	--	--	0.56	159.01
Last 5	10:17:05	660.03	23.90	4.37	3959.68	--	--	0.67	155.09
Last 5	10:18:05	720.04	23.74	4.40	4019.95	--	--	0.91	153.77
Last 5	10:19:05	780.04	23.61	4.42	4040.04	--	--	1.39	152.67
Last 5	10:20:05	840.04	23.61	4.43	4060.63	--	--	1.79	152.07
Variance 0			-0.16	0.04	60.26			0.23	-1.32
Variance 1			-0.13	0.02	20.10			0.49	-1.11
Variance 2			0.00	0.01	20.58			0.39	-0.60

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2018-03-28 11:34:18

Project Information:		Pump Information:	
Operator Name	Robert Mull	Pump Model/Type	GeoPump
Company Name	Resolute Env	Tubing Type	LDPE
Project Name	DPT Investigation	Tubing Diameter	.17 in
Site Name	Plant Branch	Tubing Length	25 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	465016		
Turbidity Make/Model	NA	Pump placement from TOC	20 ft

Well Information:		Pumping Information:	
Well ID	DPT-10	Final Pumping Rate	150 mL/min
Well diameter	1 in	Total System Volume	0.2015856 L
Well Total Depth	20 ft	Calculated Sample Rate	60 sec
Screen Length	5 ft	Stabilization Drawdown	0 in
Depth to Water	10.69 ft	Total Volume Pumped	1.8 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 1000%		+/- 1000%	+/- 10000%
Last 5	11:29:27	360.03	27.15	4.42	522.58	--	--	0.73	161.05
Last 5	11:30:27	420.04	26.89	4.50	515.55	--	--	0.70	157.15
Last 5	11:31:27	480.03	26.64	4.57	513.91	--	--	0.66	153.25
Last 5	11:32:30	543.04	26.56	4.53	513.42	--	--	0.65	151.92
Last 5	11:33:30	603.04	26.57	4.61	509.94	--	--	0.63	147.35
Variance 0			-0.25	0.07	-1.64			-0.04	-3.91
Variance 1			-0.08	-0.04	-0.49			-0.01	-1.32
Variance 2			0.01	0.08	-3.48			-0.02	-4.57

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2018-03-28 13:49:16

Project Information:		Pump Information:	
Operator Name	Robert Mull	Pump Model/Type	GeoPump
Company Name	Resolute Env	Tubing Type	LDPE
Project Name	DPT Investigation	Tubing Diameter	.17 in
Site Name	Plant Branch	Tubing Length	15 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	465016		
Turbidity Make/Model	NA	Pump placement from TOC	10 ft

Well Information:		Pumping Information:	
Well ID	DPT-11	Final Pumping Rate	110 mL/min
Well diameter	1 in	Total System Volume	0.1569514 L
Well Total Depth	10 ft	Calculated Sample Rate	30 sec
Screen Length	5 ft	Stabilization Drawdown	0 in
Depth to Water	5.32 ft	Total Volume Pumped	1.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 1000%		+/- 1000%	+/- 10000%
Last 5	13:46:13	210.03	26.07	5.96	438.96	--	--	1.07	97.61
Last 5	13:46:43	240.03	25.72	5.98	449.79	--	--	1.02	94.41
Last 5	13:47:13	270.03	25.38	6.00	458.78	--	--	0.96	91.57
Last 5	13:47:43	300.03	25.06	6.02	465.85	--	--	0.90	88.82
Last 5	13:48:13	330.03	24.78	6.03	472.85	--	--	0.84	86.88
Variance 0			-0.34	0.02	8.99			-0.06	-2.83
Variance 1			-0.32	0.02	7.08			-0.06	-2.75
Variance 2			-0.28	0.01	7.00			-0.06	-1.94

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2018-03-30 12:15:13

Project Information:		Pump Information:	
Operator Name	Robert Mull	Pump Model/Type	GeoPump
Company Name	Resolute Env	Tubing Type	LDPE
Project Name	DPT Investigation	Tubing Diameter	.17 in
Site Name	Plant Branch	Tubing Length	30 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	465016		
Turbidity Make/Model	NA	Pump placement from TOC	25 ft

Well Information:		Pumping Information:	
Well ID	DPT-13	Final Pumping Rate	0 mL/min
Well diameter	1 in	Total System Volume	0.2239027 L
Well Total Depth	25 ft	Calculated Sample Rate	30 sec
Screen Length	5 ft	Stabilization Drawdown	0 in
Depth to Water	14.95 ft	Total Volume Pumped	1.2 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 1000%		+/- 1000%	+/- 10000%
Last 5	12:12:26	150.03	21.90	4.09	3116.80	--	--	2.00	160.93
Last 5	12:12:56	180.04	21.64	4.11	3133.07	--	--	2.00	160.63
Last 5	12:13:26	210.04	21.45	4.12	3139.30	--	--	1.97	162.38
Last 5	12:13:56	240.04	21.09	4.11	3061.23	--	--	1.95	163.70
Last 5	12:14:26	270.04	20.97	4.10	3093.15	--	--	1.70	166.01
Variance 0			-0.18	0.01	6.23			-0.03	1.75
Variance 1			-0.36	-0.01	-78.07			-0.02	1.32
Variance 2			-0.13	-0.01	31.92			-0.25	2.30

Notes

Grab Samples

DPT-15

Report Created:	2018-03-29 10:41:55
Site:	Plant Branch
GPS:	
Log Created:	2018-03-29 10:40:46
Number Readings:	6
Battery Type:	SmarTROLLâ„¢ Battery Pack
Battery SN:	476554
Device Type:	SmarTROLLâ„¢ MP
Device SN:	465016

Created	Baro (mbar)	Temp (C)	RDO (mg/L)	RDO Sat (%)	pH (pH)	ORP (mV)	Act Cond (ÂµS/cm)	Sp Cond (mS/cm)	Salinity (psu)	Resist (Ohm-cm)	Density (g/cm^3)	TDS (ppt)	Depth (ft)	Pressure (psi)	Air Temp (C)
3/29/2018 10:40	1007.5	25.14	2.69	33	3.82	139.4	2050	2.04	1.1	488	0.998	1	-0.01	-0.005	22
3/29/2018 10:40	1007.5	25.05	2.69	33	3.82	138.6	2050	2.04	1.1	488	0.998	1	-0.01	-0.005	22
3/29/2018 10:40	1007.5	24.92	2.2	27	3.82	138.5	2054	2.05	1.1	487	0.998	1	-0.03	-0.012	22
3/29/2018 10:41	1007.5	24.73	1.89	23.1	3.82	138.7	2058.3	2.06	1.1	486	0.998	1	-0.01	-0.003	22
3/29/2018 10:41	1007.6	24.6	1.69	20.6	3.83	138.7	2061.1	2.07	1.1	485	0.998	1	-0.04	-0.016	22.1
3/29/2018 10:41	1007.6	24.46	1.55	18.8	3.84	138.8	2063.4	2.08	1.1	485	0.998	1	0.01	0.004	22.1

DPT-17

Report Created: 2018-03-29 16:47:16
Site: Plant Branch
GPS:
Log Created: 2018-03-29 15:15:29
Number Readings: 15
Battery Type: SmarTROLLâ„¢ Battery Pack
Battery SN: 476554
Device Type: SmarTROLLâ„¢ MP
Device SN: 465016

Created	Baro (mbar)	Temp (C)	RDO (mg/L)	RDO Sat (%)	pH (pH)	ORP (mV)	Act Cond (ÂµS/cm)	Sp Cond (mS/cm)	Salinity (psu)	Resist (Ohm-cm)	Density (g/cm^3)	TDS (ppt)	Depth (ft)	Pressure (psi)	Air Temp (C)
3/29/2018 15:15	1004.4	28.16	5.94	77.3	5.46	133.3	2199.3	2.07	1.1	455	0.997	1	-0.05	-0.021	29.1
3/29/2018 15:15	1004.4	28.16	5.94	77.3	5.48	130.9	2010.9	1.9	1	497	0.997	1	-0.04	-0.017	29.1
3/29/2018 15:15	1004.5	27.71	5.7	74.2	5.51	124.7	2212.3	2.08	1.1	452	0.997	1	-0.07	-0.029	29.2
3/29/2018 15:15	1004.4	27.4	4.59	59	5.49	123.1	2221.2	2.12	1.1	450	0.997	1	-0.08	-0.035	29.2
3/29/2018 15:16	1004.4	27.3	4.5	57.6	5.5	121.5	2113.4	2.02	1	473	0.997	1	-0.08	-0.034	29.3
3/29/2018 15:16	1004.4	27.24	4.81	61.5	5.51	120	1824.6	1.75	0.9	548	0.997	1	-0.07	-0.03	29.3
3/29/2018 15:16	1004.4	27.29	5.21	66.7	5.56	116.1	2209.6	2.12	1.1	453	0.997	1	-0.07	-0.029	29.3
3/29/2018 15:16	1004.3	26.7	4.75	60.8	5.56	113.3	2046.2	1.96	1	489	0.997	1	-0.05	-0.02	29.4
3/29/2018 15:16	1004.3	26.51	4.42	56	5.55	112.8	2182.5	2.12	1.1	458	0.997	1	-0.06	-0.024	29.4
3/29/2018 15:16	1004.3	26.46	4.77	60.2	5.56	109.5	2188	2.13	1.1	457	0.997	1	-0.06	-0.026	29.5
3/29/2018 15:17	1004.4	26.48	5.06	63.9	5.58	108.7	2189.9	2.13	1.1	457	0.997	1	-0.05	-0.02	29.6
3/29/2018 15:17	1004.4	26.25	5.18	65.4	5.6	106.5	2168	2.11	1.1	461	0.997	1	-0.04	-0.019	29.6
3/29/2018 15:17	1004.3	26.19	5.15	64.7	5.6	105	2178.3	2.13	1.1	459	0.998	1	-0.02	-0.009	29.7
3/29/2018 15:17	1004.3	26.16	5.35	67.2	5.62	103.4	2208.1	2.16	1.1	453	0.998	1	-0.06	-0.028	29.8
3/29/2018 15:17	1004.3	26.19	5.6	70.3	5.63	100.1	2267.6	2.22	1.1	441	0.998	1	-0.04	-0.018	29.8

Product Name: Low-Flow System

Date: 2018-03-29 16:46:39

Project Information:		Pump Information:	
Operator Name	Robert Mull	Pump Model/Type	GeoPump
Company Name	Resolute Env	Tubing Type	LDPE
Project Name	DPT Investigation	Tubing Diameter	.17 in
Site Name	Plant Branch	Tubing Length	30 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	465016		
Turbidity Make/Model	NA	Pump placement from TOC	25 ft

Well Information:		Pumping Information:	
Well ID	DPT-18	Final Pumping Rate	150 mL/min
Well diameter	1 in	Total System Volume	0.2239027 L
Well Total Depth	25 ft	Calculated Sample Rate	60 sec
Screen Length	5 ft	Stabilization Drawdown	0 in
Depth to Water	16.39 ft	Total Volume Pumped	2 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 1000%		+/- 1000%	+/- 10000%
Last 5	16:42:03	540.03	23.69	4.82	1446.59	--	--	0.45	115.95
Last 5	16:43:03	600.03	23.45	4.84	1408.14	--	--	0.43	116.27
Last 5	16:44:03	660.02	23.20	4.86	1379.16	--	--	0.40	116.48
Last 5	16:45:03	720.04	23.02	4.87	1356.27	--	--	0.38	116.69
Last 5	16:46:03	780.04	22.89	4.88	1332.78	--	--	0.36	116.57
Variance 0			-0.24	0.02	-28.98			-0.02	0.22
Variance 1			-0.19	0.01	-22.89			-0.02	0.20
Variance 2			-0.13	0.01	-23.49			-0.01	-0.12

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2018-03-30 09:52:07

Project Information:		Pump Information:	
Operator Name	Robert Mull	Pump Model/Type	GeoPump
Company Name	Resolute Env	Tubing Type	LDPE
Project Name	DPT Investigation	Tubing Diameter	.17 in
Site Name	Plant Branch	Tubing Length	25 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	465016		
Turbidity Make/Model	NA	Pump placement from TOC	20 ft

Well Information:		Pumping Information:	
Well ID	DPT-19	Final Pumping Rate	185 mL/min
Well diameter	1 in	Total System Volume	0.2015856 L
Well Total Depth	20 ft	Calculated Sample Rate	60 sec
Screen Length	5 ft	Stabilization Drawdown	0 in
Depth to Water	8.39 ft	Total Volume Pumped	1.8 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 1000%		+/- 1000%	+/- 10000%
Last 5	09:47:23	180.03	18.93	5.77	1837.30	--	--	0.53	117.03
Last 5	09:48:23	240.04	18.79	5.69	1867.38	--	--	0.47	114.89
Last 5	09:49:23	300.04	18.70	5.60	1889.39	--	--	0.42	116.19
Last 5	09:50:23	360.04	18.65	5.56	1908.53	--	--	0.41	116.16
Last 5	09:51:23	420.04	18.65	5.54	1919.18	--	--	0.34	115.94
Variance 0			-0.09	-0.09	22.01			-0.05	1.30
Variance 1			-0.05	-0.04	19.14			-0.01	-0.03
Variance 2			0.00	-0.02	10.64			-0.07	-0.22

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2018-03-30 14:02:26

Project Information:		Pump Information:	
Operator Name	Robert Mull	Pump Model/Type	GeoPump
Company Name	Resolute Env	Tubing Type	LDPE
Project Name	DPT Investigation	Tubing Diameter	.17 in
Site Name	Plant Branch	Tubing Length	45 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	465016		
Turbidity Make/Model	NA	Pump placement from TOC	40 ft

Well Information:		Pumping Information:	
Well ID	DPT-21	Final Pumping Rate	0 mL/min
Well diameter	1 in	Total System Volume	0.290854 L
Well Total Depth	40 ft	Calculated Sample Rate	30 sec
Screen Length	5 ft	Stabilization Drawdown	0 in
Depth to Water	26.05 ft	Total Volume Pumped	1 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 1000%		+/- 1000%	+/- 10000%
Last 5	13:59:48	150.04	22.91	5.20	2258.62	--	--	0.69	185.64
Last 5	14:00:18	180.04	22.62	5.21	2272.03	--	--	0.62	186.97
Last 5	14:00:48	210.03	22.44	5.24	2284.53	--	--	0.57	186.64
Last 5	14:01:18	240.04	22.35	5.23	2304.96	--	--	0.55	188.52
Last 5	14:01:48	270.04	22.38	5.23	2314.41	--	--	0.50	189.59
Variance 0			-0.18	0.03	12.49			-0.05	-0.33
Variance 1			-0.09	-0.01	20.43			-0.02	1.88
Variance 2			0.03	0.00	9.45			-0.05	1.08

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2018-03-30 14:53:03

Project Information:		Pump Information:	
Operator Name	Robert Mull	Pump Model/Type	GeoPump
Company Name	Resolute Env	Tubing Type	LDPE
Project Name	DPT Investigation	Tubing Diameter	.17 in
Site Name	Plant Branch	Tubing Length	20 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	465016		
Turbidity Make/Model	NA	Pump placement from TOC	15 ft

Well Information:		Pumping Information:	
Well ID	DPT-22	Final Pumping Rate	0 mL/min
Well diameter	1 in	Total System Volume	0.1792685 L
Well Total Depth	15 ft	Calculated Sample Rate	30 sec
Screen Length	5 ft	Stabilization Drawdown	0 in
Depth to Water	5.95 ft	Total Volume Pumped	2 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 1000%		+/- 1000%	+/- 10000%
Last 5	14:50:24	420.03	20.33	5.63	901.44	--	--	0.49	162.25
Last 5	14:50:54	450.05	20.30	5.60	901.49	--	--	0.46	163.87
Last 5	14:51:24	480.04	20.25	5.59	902.51	--	--	0.44	163.81
Last 5	14:51:54	510.04	20.21	5.60	904.75	--	--	0.42	163.56
Last 5	14:52:24	540.03	20.21	5.62	904.83	--	--	0.40	162.35
Variance 0			-0.04	-0.00	1.02			-0.02	-0.05
Variance 1			-0.04	0.01	2.24			-0.02	-0.25
Variance 2			-0.00	0.02	0.09			-0.02	-1.22

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2018-03-31 09:36:04

Project Information:		Pump Information:	
Operator Name	Robert Mull	Pump Model/Type	Bladder Pump
Company Name	Resolute Env	Tubing Type	LDPE
Project Name	Investigation	Tubing Diameter	.17 in
Site Name	Plant Branch	Tubing Length	62 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	465016		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	55 ft

Well Information:		Pumping Information:	
Well ID	C2-02	Final Pumping Rate	125 mL/min
Well diameter	2 in	Total System Volume	0.4667322 L
Well Total Depth	60 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	11.52 in
Depth to Water	45.23 ft	Total Volume Pumped	7.75 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10000%
Last 5	09:16:03	2640.04	20.21	3.83	4456.63	8.09	46.19	0.76	264.65
Last 5	09:20:03	2880.05	20.31	3.83	4446.42	6.14	46.19	0.67	266.84
Last 5	09:24:03	3120.04	20.30	3.84	4438.50	7.78	46.19	0.65	268.23
Last 5	09:28:03	3360.05	20.35	3.84	4441.18	6.76	46.19	0.61	269.36
Last 5	09:32:03	3600.05	20.57	3.84	4434.16	5.37	46.19	0.57	270.10
Variance 0			-0.01	0.01	-7.92			-0.02	1.38
Variance 1			0.05	0.00	2.68			-0.04	1.13
Variance 2			0.22	0.00	-7.02			-0.04	0.74

Notes

Prepurged 4 L

Turbidity stabilized below 10 NTU. DO stable within 0.2 mg/L

Grab Samples

C2-02

TPH

Product Name: Low-Flow System

Date: 2018-04-06 11:50:49

Project Information:		Pump Information:	
Operator Name	Robert Mull	Pump Model/Type	Bladder Pump
Company Name	Resolute Env	Tubing Type	LDPE
Project Name	Investigation	Tubing Diameter	.17 in
Site Name	Plant Branch	Tubing Length	91 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	364452		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	54.90 ft

Well Information:		Pumping Information:	
Well ID	C2-02	Final Pumping Rate	150 mL/min
Well diameter	2 in	Total System Volume	0.5961715 L
Well Total Depth	59.90 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	11.04 in
Depth to Water	45.07 ft	Total Volume Pumped	16 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 1000%
Last 5	11:32:16	4566.91	21.34	3.84	4162.38	16.40	45.92	0.41	164.80
Last 5	11:36:16	4806.91	21.30	3.84	4095.58	13.90	45.92	0.29	164.99
Last 5	11:40:16	5046.90	21.34	3.84	4101.38	14.80	45.88	0.27	166.13
Last 5	11:44:17	5287.90	21.86	3.84	4106.37	11.30	45.95	0.25	166.97
Last 5	11:48:17	5527.89	22.45	3.84	4074.60	8.74	46.99	0.25	167.55
Variance 0			0.04	0.00	5.81			-0.02	1.14
Variance 1			0.53	-0.00	4.98			-0.01	0.84
Variance 2			0.59	0.01	-31.77			-0.00	0.58

Notes

Prepurged 9.5 L to lower turbidity

Water level fluctuations due to changing pump rate. Pump was raised 1 ft to help with lower turbidity

Grab Samples

C2-02

DRO

DUP-1

DRO

APPENDIX D

Statistics Backup Files

```
rm(list=ls())

#setwd (C:/Users/.....)

df <- read_excel("pH-Branch.xlsx")

df <- as.data.frame(df)

kruskal.test <- kruskal.test(df$REPORT_RESULT_VALUE ~ df$Type, data = df)

dunnTest(df$REPORT_RESULT_VALUE ~ df$Type, data = df)
```

	LOC_NAME	SAMPLE_DATE	REPORT_RESULT_VALUE	Type
1	PZ-44	9/28/2021	6.22	AP-B Proximity
2	PZ-51I	9/27/2021	5.34	CPA
3	PZ-57I	9/28/2021	5.37	CPA
4	PZ-58I	9/28/2021	4	CPA
5	PZ-60I	9/28/2021	4.77	CPA
6	PZ-61I	5/19/2021	5.36	CPA
7	PZ-61I	9/27/2021	5.02	CPA
8	BRGWC-25I	3/4/2020	6.02	AP-B Proximity
9	BRGWC-45	3/5/2020	5.95	AP-B Proximity
10	BRGWC-50	3/4/2020	5.2	CPA
11	BRGWC-52I	3/4/2020	6.54	AP-B Proximity
12	PZ-57I	4/12/2021	5.35	CPA
13	PZ-58I	4/12/2021	5.15	CPA
14	PZ-60I	4/12/2021	5.05	CPA
15	PZ-61I	4/12/2021	5.4	CPA
16	BRGWC-25I	9/28/2021	5.97	AP-B Proximity
17	BRGWC-25I	2/2/2022	6.23	AP-B Proximity
18	BRGWC-45	9/23/2021	5.95	AP-B Proximity
19	BRGWC-45	2/2/2022	5.92	AP-B Proximity
20	BRGWC-50	9/27/2021	5.05	CPA
21	BRGWC-50	2/3/2022	5.2	CPA
22	BRGWC-52I	9/28/2021	6.81	AP-B Proximity
23	BRGWC-52I	2/2/2022	6.35	AP-B Proximity
24	PZ-44	2/2/2022	6.2	AP-B Proximity
25	PZ-51I	2/2/2022	5.44	CPA
26	PZ-57I	2/4/2022	5.28	CPA
27	PZ-58I	2/3/2022	3.9	CPA
28	PZ-59I	2/3/2022	3.71	CPA
29	PZ-60I	2/3/2022	4.73	CPA
30	PZ-61I	2/2/2022	5.25	CPA
31	PZ-62I	2/4/2022	5.79	CPA
32	PZ-63I	2/4/2022	5.89	CPA
33	C2-02	10/6/2022	3.69	Coal Pile
34	PZ-64I	11/7/2022	5.59	CPA
35	PZ-67	10/6/2022	3.97	Coal Pile
36	BRGWC-25I	8/23/2022	6.11	AP-B Proximity
37	BRGWC-45	8/25/2022	5.74	AP-B Proximity
38	BRGWC-50	8/24/2022	5.01	CPA
39	BRGWC-52I	8/25/2022	6.21	AP-B Proximity
40	PZ-44	8/25/2022	6.06	AP-B Proximity
41	PZ-51I	8/24/2022	5.49	CPA
42	PZ-57I	8/25/2022	5.91	CPA
43	PZ-58I	8/24/2022	3.81	CPA
44	PZ-59I	8/25/2022	3.72	CPA

45	PZ-60I	8/24/2022	4.55	CPA
46	PZ-61I	8/24/2022	5.14	CPA
47	PZ-62I	8/25/2022	5.5	CPA
48	PZ-63I	8/25/2022	5.65	CPA
49	PZ-64I	10/12/2022	5.53	CPA
50	PZ-65I	10/11/2022	4.16	CPA
51	PZ-66I	10/11/2022	5.81	CPA
52	BRGWC-25I	1/26/2023	6.18	AP-B Proximity
53	BRGWC-45	1/25/2023	5.82	AP-B Proximity
54	BRGWC-50	1/25/2023	5.18	CPA
55	BRGWC-52I	1/25/2023	6.25	AP-B Proximity
56	PZ-44	1/25/2023	6.13	AP-B Proximity
57	PZ-51I	1/26/2023	5.44	CPA
58	PZ-57I	1/30/2023	5.39	CPA
59	PZ-58I	1/26/2023	3.93	CPA
60	PZ-59I	1/26/2023	3.78	CPA
61	PZ-60I	1/26/2023	4.6	CPA
62	PZ-61I	1/26/2023	5.16	CPA
63	PZ-62I	1/30/2023	5.38	CPA
64	PZ-63I	1/30/2023	5.66	CPA
65	PZ-64I	1/30/2023	5.33	CPA
66	PZ-65I	1/26/2023	4.06	CPA
67	PZ-66I	1/30/2023	5.64	CPA
68	IW-B-1	2/1/2023	7.32	AP-B
69	IW-B-2	1/31/2023	6.53	AP-B
70	BRGWC-25I	9/8/2016	6.07	AP-B Proximity
71	BRGWC-25I	11/17/2016	5.96	AP-B Proximity
72	BRGWC-25I	2/21/2017	5.98	AP-B Proximity
73	BRGWC-25I	6/13/2017	5.96	AP-B Proximity
74	BRGWC-25I	9/27/2017	5.85	AP-B Proximity
75	BRGWC-25I	2/14/2018	5.94	AP-B Proximity
76	BRGWC-25I	6/26/2018	5.87	AP-B Proximity
77	BRGWC-25I	12/18/2018	5.84	AP-B Proximity
78	BRGWC-25I	3/20/2019	6.03	AP-B Proximity
79	BRGWC-25I	8/27/2019	6.01	AP-B Proximity
80	BRGWC-25I	10/15/2019	6	AP-B Proximity
81	BRGWC-25I	8/19/2020	6.32	AP-B Proximity
82	BRGWC-25I	9/15/2020	6	AP-B Proximity
83	BRGWC-25I	3/2/2021	6.1	AP-B Proximity
84	BRGWC-45	6/28/2018	5.88	AP-B Proximity
85	BRGWC-45	9/19/2018	5.9	AP-B Proximity
86	BRGWC-45	10/29/2018	5.93	AP-B Proximity
87	BRGWC-45	11/28/2018	5.99	AP-B Proximity
88	BRGWC-45	12/20/2018	6.04	AP-B Proximity
89	BRGWC-45	3/20/2019	6.1	AP-B Proximity
90	BRGWC-45	8/28/2019	5.86	AP-B Proximity
91	BRGWC-45	10/17/2019	5.93	AP-B Proximity

92	BRGWC-45	12/3/2019	5.94	AP-B Proximity
93	BRGWC-45	8/20/2020	5.86	AP-B Proximity
94	BRGWC-45	9/16/2020	5.27	AP-B Proximity
95	BRGWC-45	3/2/2021	6.17	AP-B Proximity
96	BRGWC-50	6/28/2018	5.03	CPA
97	BRGWC-50	10/29/2018	5.19	CPA
98	BRGWC-50	11/28/2018	5.28	CPA
99	BRGWC-50	12/19/2018	5.15	CPA
100	BRGWC-50	1/16/2019	5.14	CPA
101	BRGWC-50	3/20/2019	5.32	CPA
102	BRGWC-50	8/29/2019	5.2	CPA
103	BRGWC-50	10/16/2019	5.36	CPA
104	BRGWC-50	8/20/2020	5.26	CPA
105	BRGWC-50	9/17/2020	4.41	CPA
106	BRGWC-50	3/4/2021	4.34	CPA
107	BRGWC-52I	10/29/2018	6.77	AP-B Proximity
108	BRGWC-52I	11/28/2018	6.44	AP-B Proximity
109	BRGWC-52I	12/20/2018	6.75	AP-B Proximity
110	BRGWC-52I	1/17/2019	6.41	AP-B Proximity
111	BRGWC-52I	2/13/2019	6.42	AP-B Proximity
112	BRGWC-52I	9/19/2018	6.48	AP-B Proximity
113	BRGWC-52I	3/20/2019	6.59	AP-B Proximity
114	BRGWC-52I	8/29/2019	6.27	AP-B Proximity
115	BRGWC-52I	10/16/2019	7	AP-B Proximity
116	BRGWC-52I	8/20/2020	6.85	AP-B Proximity
117	BRGWC-52I	9/17/2020	6.12	AP-B Proximity
118	BRGWC-52I	3/4/2021	5.87	AP-B Proximity
119	IW-B-1	10/24/2019	7.51	AP-B
120	IW-B-1	3/3/2021	6.86	AP-B
121	IW-B-2	10/22/2019	7.31	AP-B
122	IW-B-2	3/3/2021	7.15	AP-B
123	PZ-44	3/6/2018	6.1	AP-B Proximity
124	PZ-44	5/1/2018	6.12	AP-B Proximity
125	BRGWC-45	3/6/2018	6.15	AP-B Proximity
126	BRGWC-45	5/1/2018	6.14	AP-B Proximity
127	BRGWC-45	7/31/2018	6.07	AP-B Proximity
128	PZ-46	3/6/2018	6	AP-B Proximity
129	PZ-46	5/1/2018	5.87	AP-B Proximity
130	PZ-49	5/1/2018	6.09	AP-B Proximity
131	BRGWC-50	3/15/2018	5.26	CPA
132	BRGWC-50	5/1/2018	5.38	CPA
133	BRGWC-50	8/1/2018	5.22	CPA
134	PZ-51I	8/3/2018	5.47	CPA
135	PZ-51I	1/19/2019	5.45	CPA
136	PZ-51I	10/18/2019	5.79	CPA
137	PZ-51I	8/20/2020	5.57	CPA
138	PZ-51I	9/17/2020	4.93	CPA

139	PZ-51I	10/27/2020	5.49	CPA
140	PZ-51I	3/4/2021	4.57	CPA
141	BRGWC-52I	8/10/2018	6.28	AP-B Proximity
142	BRGWC-45	8/23/2018	6.07	AP-B Proximity
143	BRGWC-52I	8/23/2018	6.28	AP-B Proximity
144	BRGWC-25I	4/24/2023	6.25	AP-B Proximity
145	BRGWC-45	4/24/2023	5.9	AP-B Proximity
146	BRGWC-50	4/25/2023	5.09	CPA
147	BRGWC-52I	4/24/2023	6.63	AP-B Proximity
148	IW-B-1	4/24/2023	6.08	AP-B
149	PZ-44	4/25/2023	6.24	AP-B Proximity
150	PZ-58I	4/25/2023	3.93	CPA
151	PZ-59I	4/24/2023	3.7	CPA
152	PZ-60I	4/25/2023	4.58	CPA
153	PZ-63I	4/25/2023	5.59	CPA
154	PZ-65I	4/24/2023	4.22	CPA
155	PZ-66I	4/24/2023	5.72	CPA
156	IW-B-3	6/5/2023	8.4	AP-B
157	IW-B-4	6/5/2023	5.79	AP-B
158	IW-B-5	6/5/2023	5.81	AP-B
159	BRGWC-25I	8/24/2023	6.14	AP-B Proximity
160	BRGWC-45	8/24/2023	5.71	AP-B Proximity
161	BRGWC-50	8/23/2023	5.12	CPA
162	BRGWC-52I	8/24/2023	6.24	AP-B Proximity
163	PZ-44	8/23/2023	6.11	AP-B Proximity
164	PZ-51I	8/23/2023	5.37	CPA
165	PZ-57I	8/21/2023	5.7	CPA
166	PZ-58I	8/23/2023	3.99	CPA
167	PZ-59I	8/23/2023	3.68	CPA
168	PZ-60I	8/23/2023	4.58	CPA
169	PZ-61I	8/22/2023	5.16	CPA
170	PZ-63I	8/23/2023	5.68	CPA
171	PZ-64I	8/23/2023	5.21	CPA
172	PZ-65I	8/21/2023	4.23	CPA
173	C1-06	3/1/2018	3.51	Coal Pile
174	C2-02	3/1/2018	3.84	Coal Pile
175	DPT-01	3/1/2018	4.38	Coal Pile
176	DPT-02	3/1/2018	4.01	Coal Pile
177	DPT-04	3/1/2018	4.02	Coal Pile
178	DPT-05	3/1/2018	4.39	Coal Pile
179	DPT-06	3/1/2018	5.39	Coal Pile
180	DPT-07	3/1/2018	3.93	Coal Pile
181	DPT-08	3/1/2018	4.23	Coal Pile
182	DPT-09	3/1/2018	4.43	Coal Pile
183	DPT-10	3/1/2018	4.61	Coal Pile
184	DPT-11	3/1/2018	6.03	Coal Pile
185	DPT-13	3/1/2018	4.1	Coal Pile

186	DPT-15	3/1/2018	3.82	Coal Pile
187	DPT-17	3/1/2018	5.63	Coal Pile
188	DPT-18	3/1/2018	4.88	Coal Pile
189	DPT-19	3/1/2018	5.54	Coal Pile
190	DPT-21	3/1/2018	5.23	Coal Pile
191	DPT-22	3/1/2018	5.62	Coal Pile

APPENDIX E

Isotope Assessment Results

Memo

SUBJECT
Isotope Assessment
Georgia Power Company Plant Branch
Putnam County, Georgia

DATE
June 17, 2024

COPIES TO
Julie Sueker, PhD, PE
Lauren Hartley, Southern Company Services
Ben Hodges, Georgia Power Company
Mike Smilley, Georgia Power Company

TO
Joju Abraham
Southern Company Services

OUR REF
30178565

FROM
Geoff Gay, PE

Introduction

Routine groundwater monitoring has been conducted at the Georgia Power Company Plant Branch Ash Ponds B, C and D (Geosyntec 2023). Relatively higher concentrations of cobalt and sulfate are associated with relatively lower concentrations of boron in monitoring wells in an area designated Area A for the purposes of this memo (**Figure 1**). In particular, in August 2022, cobalt concentrations ranged from 0.357 to 9.05 milligrams per liter (mg/L) and sulfate concentrations ranged from 571 mg/L to 2,520 mg/L at BGRWC-50, PZ-50D, PZ-58I, PZ-59I, PZ-60I, PZ-61, PZ-64I, PZ-65I, and PZ-66I (Geosyntec 2023). Boron concentrations in groundwater at this set of locations ranged from 0.0152 to 0.473 mg/L in August 2022. The presence of cobalt and sulfate at these locations could be due to potential migration from beneath Ash Pond B or from beneath the former coal pile (**Figure 2**, modified from Geosyntec 2022). Analysis of groundwater samples for stable isotopes of water and sulfate in groundwater was conducted to provide lines of evidence for identifying the source of groundwater in Area A.

Methods

Groundwater samples were collected on April 24 and 25, 2023 by Atlantic Coast Consultants from the monitoring wells listed in **Table 1** below. Samples were field filtered with a 0.45-micron filters into 1 liter HDPE bottles. Samples were shipped to Isotech Laboratories, Inc. located in Champaign, Illinois, for isotopic analysis.

Table 1. Monitoring Wells Sampled for Isotope Analysis

BRGWC-25I (dup)	BRGWC-27I[1]	BRGWC-32S[1]	BRGWC-52I
PZ-59I	PZ-65I	BRGWC-45	PZ-44
PZ-60I	PZ-66I	BRGWC-50 (dup)	PZ-58I
PZ-63I	BRGWC-47	BRGWC-50 (dup)	PZ-58I
SW-APB (dup) (Ash Pond B surface water)	DEWTR-DW-B1 Ash Pond B dewatering well (roughly 100 feet from IW-B-1)		

Notes 1 Sampled May 8, 2024, (dup) indicates locations where duplicates were collected.

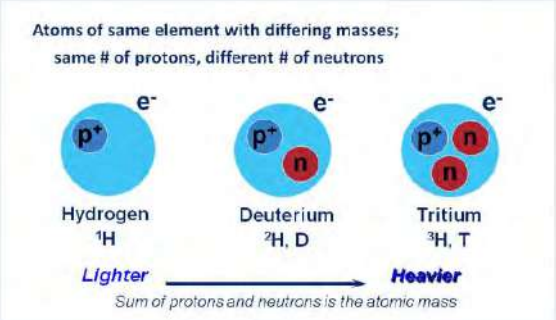
In addition, groundwater samples were collected from monitoring wells BRGWC-27I and BRGWC-32S on May 8, 2024. Samples were field filtered with a 0.45-micron filters into 1 liter HDPE bottles. Samples were shipped to Isotech Laboratories, Inc. located in Champaign, Illinois, for isotopic analysis.

Isotope analysis included stable oxygen and hydrogen isotopes of water and stable sulfur and oxygen isotopes of sulfate and as follows:

- **Sulfur and oxygen isotopes of sulfate method**: Sulfate is precipitated by barium. $\delta^{34}S$ is determined by combustion to SO_2 gas using an Elementar Vario EL Elemental Analyzer (EA) and SO_2 gas is analyzed by Isotope Ratio Mass Spectrometer (IRMS) for measurement of $\delta^{34}S$. Analysis of $\delta^{18}O$ is performed using a Thermo Temperature Conversion EA to combust to CO which is also analyzed by IRMS. The laboratory accuracy/precision for $\delta^{34}S$ of sulfate is ± 0.5 ‰. The laboratory accuracy/precision for $\delta^{18}O$ of sulfate is ± 0.5 ‰.
- **Oxygen and hydrogen isotopes of water method**: Hydrogen and deuterium isotopes of water are analyzed by a Picarro CRDS (cavity ringdown spectrometer) model L1102-i. The laboratory accuracy/precision for $\delta^{18}O$ of water is ± 0.10 ‰. The laboratory accuracy/precision for deuterium of water is ± 2.0 ‰.

Isotope Primer

Isotopes are atoms of the same element that have different masses due to differing numbers of neutrons in the nucleus. For example, hydrogen atoms can contain nuclei with no neutrons (hydrogen, ^1H), one neutron (deuterium, ^2H), or two neutrons (tritium, ^3H) (Illustration below).



Stable isotopes remain unchanged while radioactive isotopes, such as carbon-14 (^{14}C), decay to stable isotopes. Isotopes vary in abundance; oxygen is comprised of ^{16}O (99.757%), ^{17}O (0.038%), and ^{18}O (0.205%).

Stable isotope concentrations are typically measured against a known standard and are often reported in δ (delta) notation in units of ‰ (per mil):

$$\delta^{13}C\ (‰) = ([(\delta^{13}C_x/\delta^{12}C_x)\div(\delta^{13}C_s/\delta^{12}C_s)]-1)\times 1000$$

where subscript x denotes sample and subscript s denotes standard. Negative δ values indicate that there is less of the rare (low abundance) isotope in the sample relative to the standard, i.e., the sample is "depleted" relative to the standard. Positive δ values indicate that there is more of the rare isotope in the sample relative to the standard, i.e., the sample is "enriched" relative to the standard. Isotope values for different samples can be directly compared with each other when this notation method is used.

Results

Results of the isotope analyses are tabulated in **Table 2** and presented graphically in **Figures 4** through **6** and **Figure 8**.

Stable Isotopes of Sulfate

Isotopic analysis of the sulfur and oxygen isotopic composition of sulfate in groundwater was used to evaluate sources of sulfate in groundwater at the Plant Branch site. Potential sources of sulfate in groundwater at the site include naturally occurring soil and bedrock sources, leaching from coal ash stored in ash management areas, and leaching from coal. Sulfate derived from coal ash is typically present in the oxidized sulfate form due to oxidation of sulfide minerals present in coal during combustion of the coal (combustion signal). The stable oxygen isotopic composition of sulfate from a combustion source is typically more positive due to incorporation of atmospheric oxygen ($\delta^{18}O$ = 23‰) into the sulfate molecule, as shown in an example dataset from a client

confidential site in **Figure 3** in the upper left-hand area of the graph. Sulfate derived from oxidation of sulfide minerals in coal (oxidation signal) typically is less positive because some of the oxygen in the sulfate molecule is derived from precipitation water or groundwater ($\delta^{18}O$ ~ -5‰ to -1‰) (shown in the lower left portion of the graph for the example dataset from another site on **Figure 3**). Microbial reduction of sulfate results in a shift towards more positive $\delta^{18}O$ and $\delta^{34}S$ values as reduction progresses with a $\delta^{18}O$ / $\delta^{34}S$ slope of approximately 0.5 (**Figure 3**).

Site groundwater samples show a distinct grouping for all Area A wells, except PZ-63I, for the stable S and O isotopic composition of sulfate (**Figures 4** through **6**). The stable S and O isotopic composition and sulfate concentrations for this distinct grouping of Area A wells is consistent with oxidation of sulfide minerals in coal. The sulfate stable S and O isotopic composition for the other groundwater and surface water samples have a broader range that does not appear to be associated with oxidation of sulfide minerals in coal. Sulfate in groundwater from PZ-63I plots between other Area A wells and BRGWC-52I (**Figures 5** and **6**), suggesting that sulfate in groundwater at PZ-63I is derived from a mixture of sulfate from coal ash leachate and sulfate from oxidation of sulfide minerals in coal. Monitoring well PZ-63I is located between BRGWC-52I and other Area A wells and groundwater at this location may be a mixture of groundwater that migrated through the ash management system and groundwater that migrated beneath the former coal pile (**Figure 2**).

Stable Isotopes of Water

Stable isotopes of water provide information on hydrological processes. Meteorological process (e.g., precipitation and evaporation) and water-rock interaction cause predictable changes (fractionation) in the stable oxygen and hydrogen isotopes within the water which can provide a signature of the origin of the water. Variance in the $\delta^{18}O$ and the $\delta^{2}H$ of precipitation is described by the meteoric water line (MWL) which is the best fit linear regression through precipitation isotopic composition data (shown as an example dataset from another site on **Figure 7**). A local meteoric water line (LMWL) was established for the site based on precipitation samples collected at Panola Mount, GA (Kendall and Coplen 2001) (**Figure 8**). The isotopic composition of groundwater or surface water can be compared to the MWL to estimate the amount of water recharged from precipitation occurring during colder temperatures versus warmer temperatures. Evaporation causes a shift in isotopic composition that plots below the MWL with a slope that is less than the slope of the MWL and can be used to identify water that has been subjected to evaporation.

Groundwater samples collected from IW-B-1 and BRGWA-23S have the most negative $\delta^{18}O$ and $\delta^{2}H$ values and plot on the LMWL (**Figure 8**). BRGWA-23S is considered to be a background groundwater monitoring location and the isotopic composition of groundwater at this location likely represents groundwater unaffected by site operations. The surface water sample collected from SW-APB has the least negative $\delta^{18}O$ and $\delta^{2}H$ values and falls below the LMWL, indicating the surface water has been subjected to evaporation. Area B groundwater samples plot along a line drawn between BRGWA-23S and DEWTR-DW-B1, indicating that the Area B groundwater has received evaporated water to varying extents (**Figure 8**). Area A samples, except PZ-63I, plot in a group that falls below the LMWL but with a slope similar to the LMWL. These results indicate that Area A groundwater has not undergone the same evaporation processes as Area B groundwater. PZ-63I plots along the Area B evaporation line between the Area A samples and BRGWC-52I. These results indicate that groundwater at PZ-63I is likely a mixture of groundwater that has migrated through the ash management system and groundwater that migrated beneath the former coal pile. This interpretation of a mixture of ash management

system and coal pile area groundwater at PZ-63I is consistent with lower sulfate concentrations and higher boron concentrations in groundwater at PZ-63I compared with other Area A groundwater samples (**Table 2**) and higher cobalt concentrations at PZ-63I compared with BRGWC-52I.

Summary

Analysis of groundwater samples for stable isotopes of water and sulfate in groundwater was conducted to provide lines of evidence for identifying the source of groundwater in Area A. For stable S and O isotopes of sulfate, Area A groundwater samples are grouped within a region that is consistent with sulfate derived from oxidation of sulfide minerals. Area B groundwater and surface water samples have a broader range for both the stable S and O isotopes of sulfate and are distinctly different from the Area A groundwater samples, with the exception of PZ-63I which plots along a mixing line between Area A samples and BRGWC-52I. For stable O and H isotopes of water, Area B samples plot along an evaporation line, indicating groundwater in Area B has been affected by evaporation. Area A groundwater samples group together with a smaller range of O and H isotopes of water compared with Area B groundwater samples. Based on these results, Area A groundwater is unique compared with Area B groundwater and Area A groundwater has not been affected by the ash management areas. Groundwater at PZ-63I is likely a mixture of groundwater from the ash management system and groundwater from the coal pile area.

Enclosures

Table 1	Proposed Samples for Isotope Analysis (in text)
Table 2	Analytical Data Summary
Figure 1	Sampling Locations
Figure 2	Groundwater Potentiometric Surface Map (modified from Geosyntec 2023)
Figure 3	Example Stable S and O Isotopes of Sulfate
Figure 4	Stable S and O Isotopes of Sulfate for Site Samples
Figure 5	Stable S Isotopes of Sulfate Versus Sulfate for Site Samples
Figure 6	Stable O Isotopes of Sulfate Versus Sulfate for Site Samples
Figure 7	Example Stable O and H Isotopes of Water
Figure 8	Stable O and H Isotopes of Water for Site Samples
Attachment A	Laboratory Analytical Reports

Works Cited

Geosyntec. 2022. 2022 Annual Groundwater Monitoring and Corrective Action Report. Georgia Power Company Plant Branch Ash Ponds B, C, & D. July.

Geosyntec. 2023. 2022 Semiannual Groundwater Monitoring and Corrective Action Report. Plant Branch Ash Ponds B, C & D. February.

Kendall, C. and T. Coplen. 2001. *Distribution of Oxygen-18 and Deuterium in River Waters across the United States*. Hydrol. Process. 15, 1363-1393 (2001).

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Table 2	Analytical Data Summary
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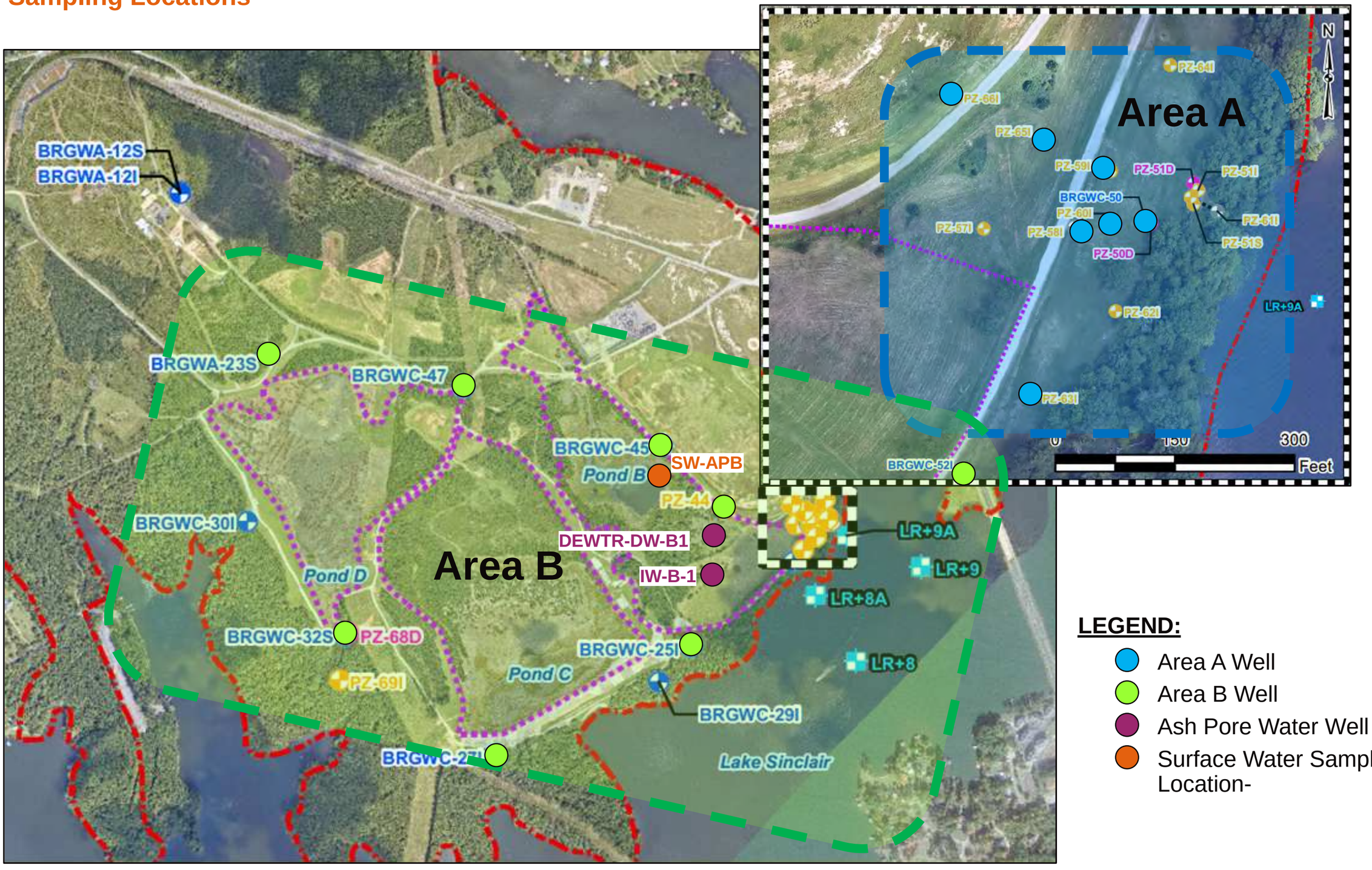
Figure 8	Stable O and H Isotopes of Water for Site Samples
Attachment A	Laboratory Analytical Reports

Table 2
Analytical Data Summary
Isotope Assessment Technical Memorandum
Plant Branch

	Sample Type	Sample Date	Sulfate	Boron	$\delta^{18}O\ H_2O$	$\delta^{2}H\ H_2O$	$\delta\ ^{34}S\ SO_4^{2-}$	$\delta\ ^{18}O\ SO_4^{2-}$
		Units	mg/L	mg/L	‰	‰	‰	‰
Area A Wells								
BRGWC-50	N	4/25/2023	1,560	0.355	-3.26	-17.9	4.6	1.1
BRGWC-50	FD	4/25/2023	1,610	0.369	-3.32	-19.7	4.8	1.1
PZ-58I	N	4/25/2023	871	0.435	-2.97	-16.3	5.2	1.9
PZ-59I	N	4/24/2023	2,970	0.0588	-3.65	-21.9	5.6	0.4
PZ-60I	N	4/25/2023	1,890	0.294	-3.46	-19.2	4.8	1.1
PZ-63I	N	4/25/2023	315	0.741	-2.65	-14.4	7.4	7.0
PZ-65I	N	4/24/2023	2,680	0.0299	-3.95	-22.8	5.9	1.4
PZ-66I	N	4/24/2023	1,960	0.134	-3.97	-22.5	4.8	1.4
Area B Wells								
BRGWA-23S	N	4/24/2023	13	0.0454	-4.58	-24.4	8.4	7.2
BRGWC-25I	N	4/24/2023	204	1.49	-1.68	-9.4	11.5	23.3
BRGWC-25I	FD	4/24/2023	222	1.54	-1.80	-11.7	11.9	23.5
BRGWC-27I	N	5/8/2024	176	1.03	-1.18	-6.9	7.7	20.1
BRGWC-32S	N	5/8/2024	254	1.07	-3.66	-18.4	5.5	19.9
BRGWC-45	N	7/16/1905	7.7	20.1	-4.06	-22.1	5.7	6.9
BRGWC-47	N	4/25/2023	5.5	19.9	-2.43	-13.2	3.2	7.2
BRGWC-52I	N	4/24/2023	137	1.49	-2.07	-11.9	12.0	23.7
PZ-44	N	4/25/2023	42.4	1.32	-3.12	-16.6	23.7	21.2
Pond B Ash Pore Water Wells								
DEWTR-DW-B1	N	4/25/2023	460	1.68	-1.50	-7.5	8.1	15.5
IW-B-1	N	4/24/2023	21.8	0.378	-4.89	-24.9	7.5	7.9
Surface Water								
SW-APB	N	4/25/2023	581	1.50	-1.24	-5.4	7.2	18.3
SW-APB	FD	4/25/2023	570	1.59	-1.27	-5.7	7.1	18.9

Acronyms and Abbreviations:
‰ - per mil
N - normal
FD - field duplicate
mg/L - milligrams per liter

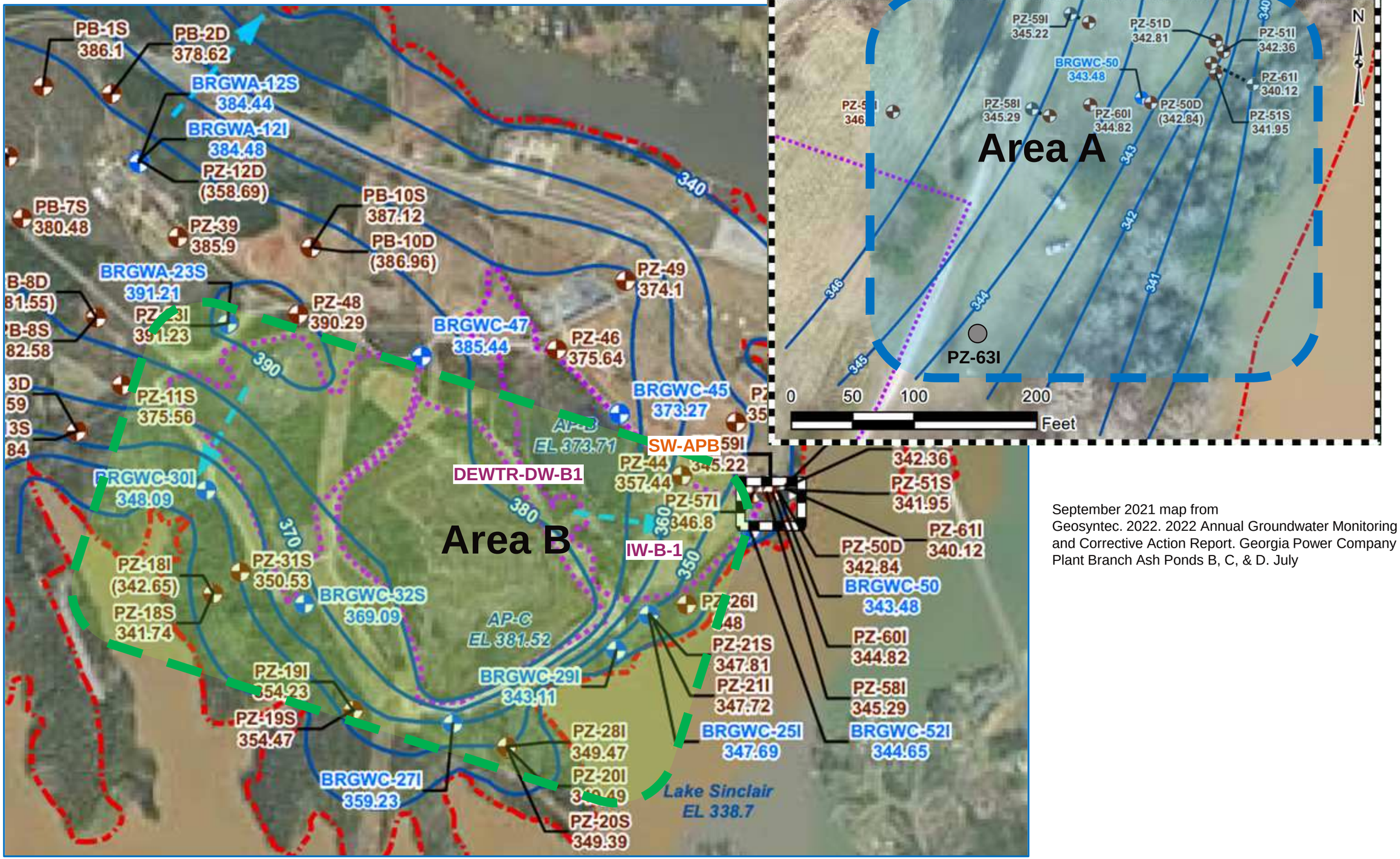
Figure 1
Sampling Locations



LEGEND:

- Area A Well
- Area B Well
- Ash Pore Water Well
- Surface Water Sample Location-

Figure 2
Groundwater Potentiometric Surface Map



September 2021 map from
Geosyntec. 2022. 2022 Annual Groundwater Monitoring and Corrective Action Report. Georgia Power Company Plant Branch Ash Ponds B, C, & D. July

Figure 3
Example Stable S and O Isotopes of Sulfate

Stable S and O isotopes of sulfate:

- Stable S and O isotopes of sulfate – differentiate sources of sulfate in groundwater
  - Stable S and O isotopic composition of sulfate differs for pyrite combustion (sulfate from fly ash), pyrite oxidation (oxidation of pyrite in coal or native soil and bedrock minerals), and evaporation (likely not important for this site)
  - Mixing of sulfate from different sources can be evaluated
  - Reduction of sulfate causes shifts towards more positive stable S and O isotope values (orange arrow below)

Example Sulfate stable S and O isotope diagram

This is an example plot from another site used here to illustrate this isotopic technique

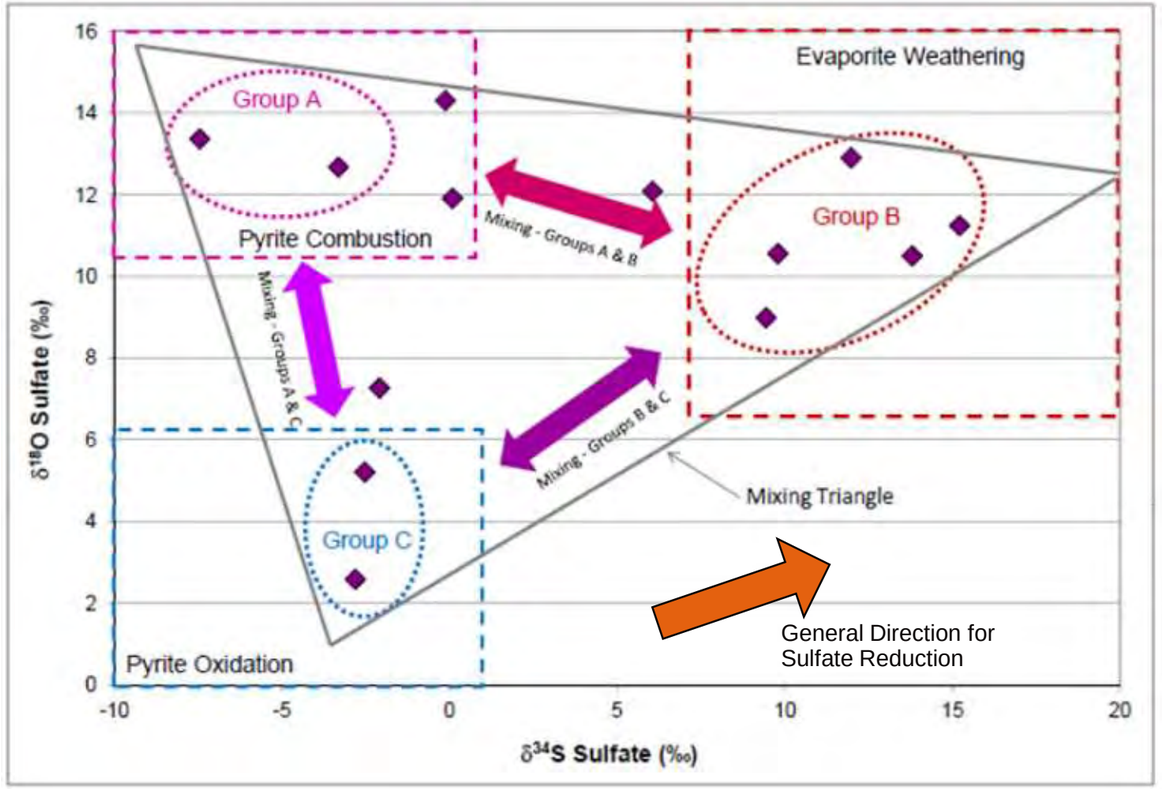
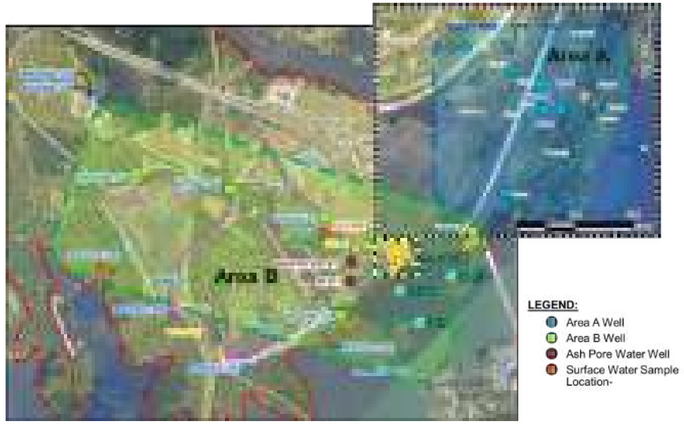


Figure 4
Stable S and O Isotopes of Sulfate for Site Samples

- Distinct grouping of Area A wells – pyrite oxidation signal
- PZ-63I trending towards Area B wells – PZ-63I is mixture of Area A and Area B groundwater
- Area B wells lack distinct grouping



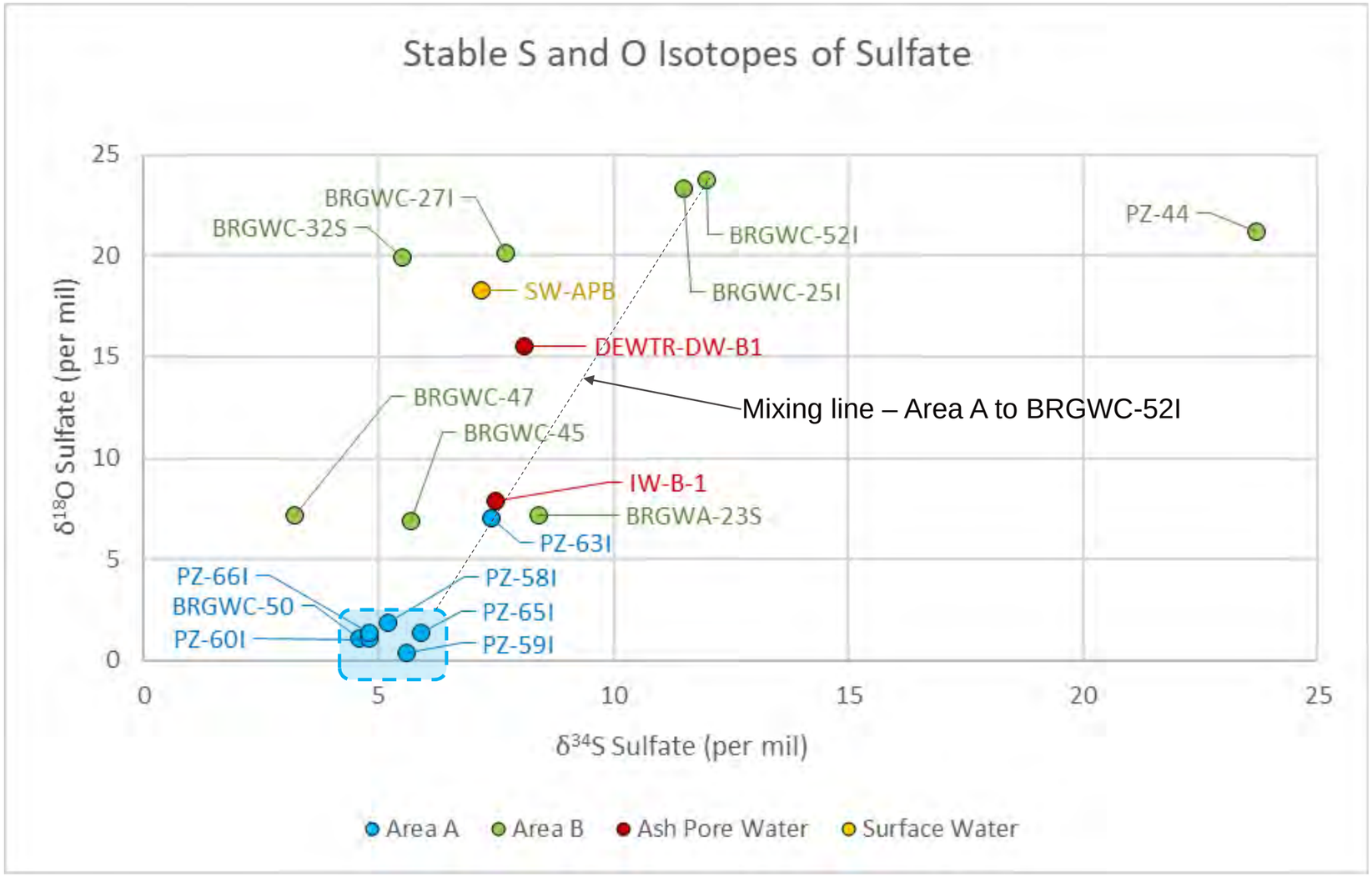


Figure 5
Stable S Isotopes and Sulfate Concentrations for Site Samples

- Distinct grouping of Area A wells with highest sulfate concentrations
- PZ-63I trending towards Area B wells – PZ-63I is mixture of Area A and Area B groundwater
- Area B wells lack distinct grouping

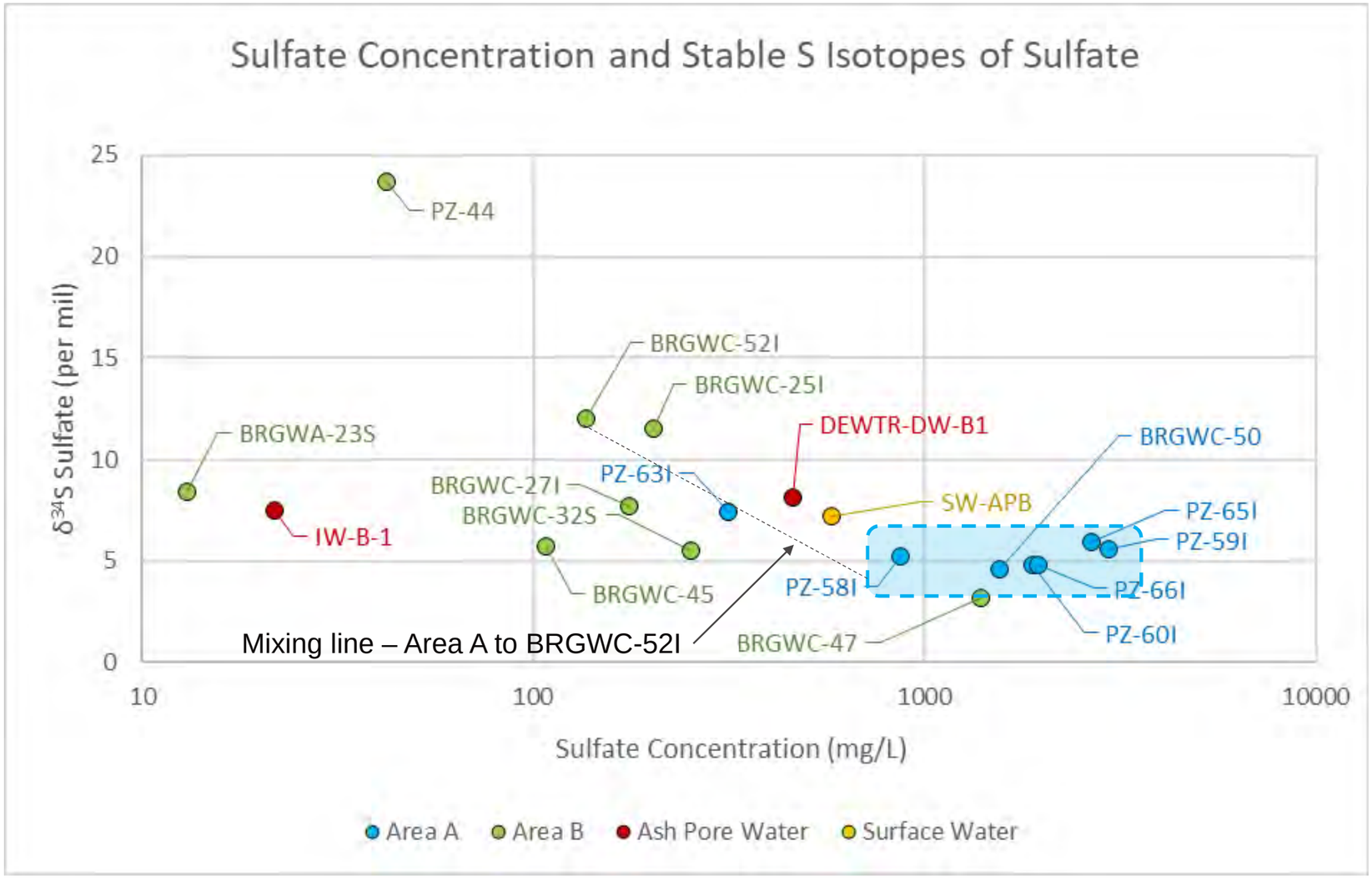


Figure 6
Stable O Isotopes and Sulfate Concentrations of Site Samples

- Distinct grouping of Area A wells with highest sulfate concentrations
- PZ-63I trending towards Area B wells – PZ-63I is mixture of Area A and Area B groundwater
- Area B wells lack distinct grouping

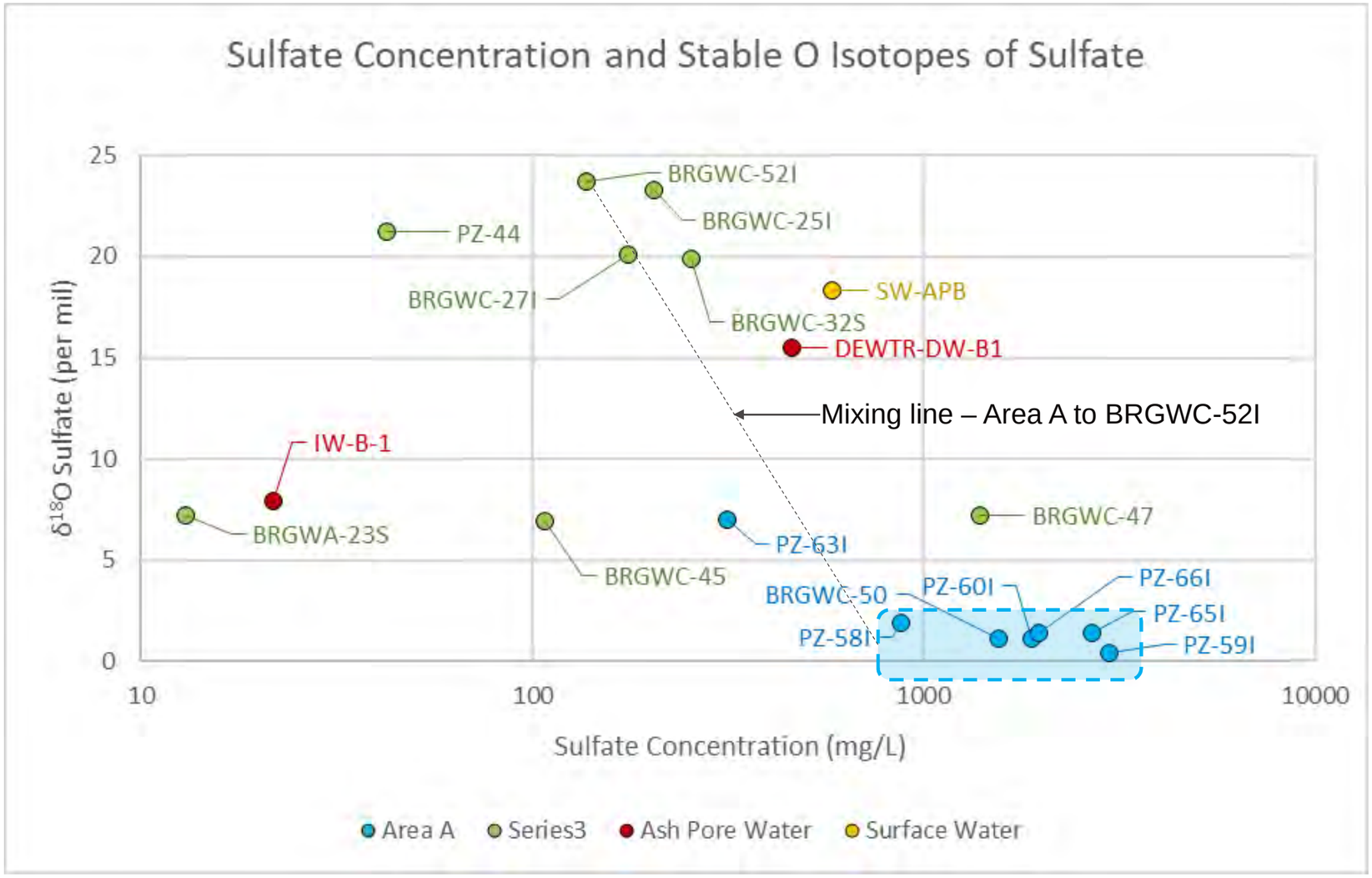
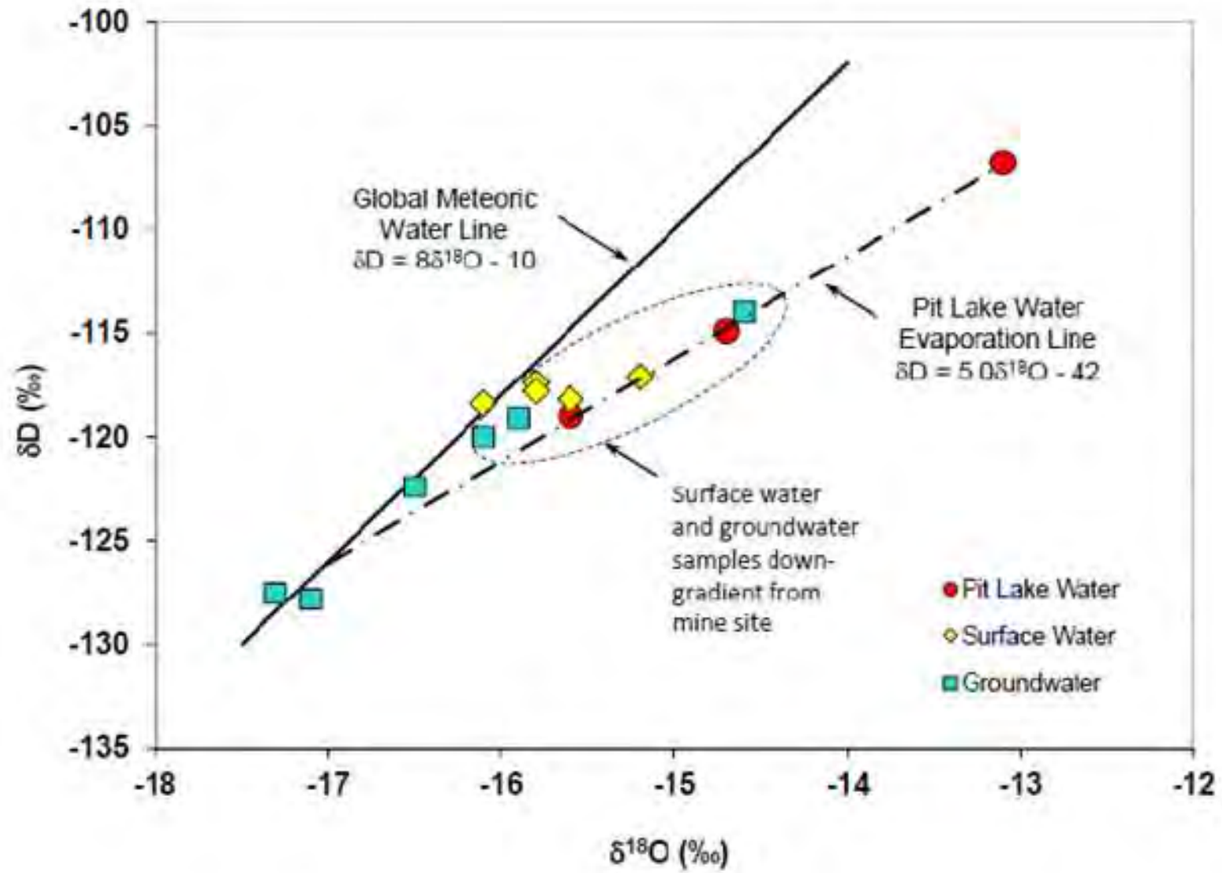


Figure 7
Example Stable O and H Isotopes of Water

Stable O and H isotopes of water:

- Stable O and H isotopes of water provides information on provenance of water or primary source of groundwater recharge – summer rain versus winter snow
- Stable O and H isotopes of water can also be used to identify water from an evaporated source – water in ash basin ponds may be more evaporated compared with groundwater

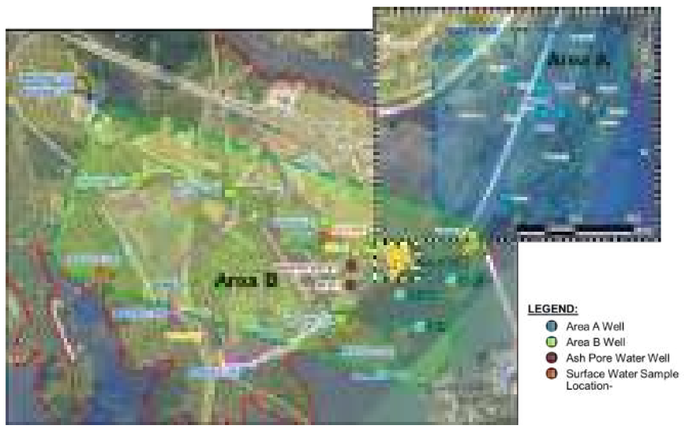
Example stable O and H isotopes of water diagram

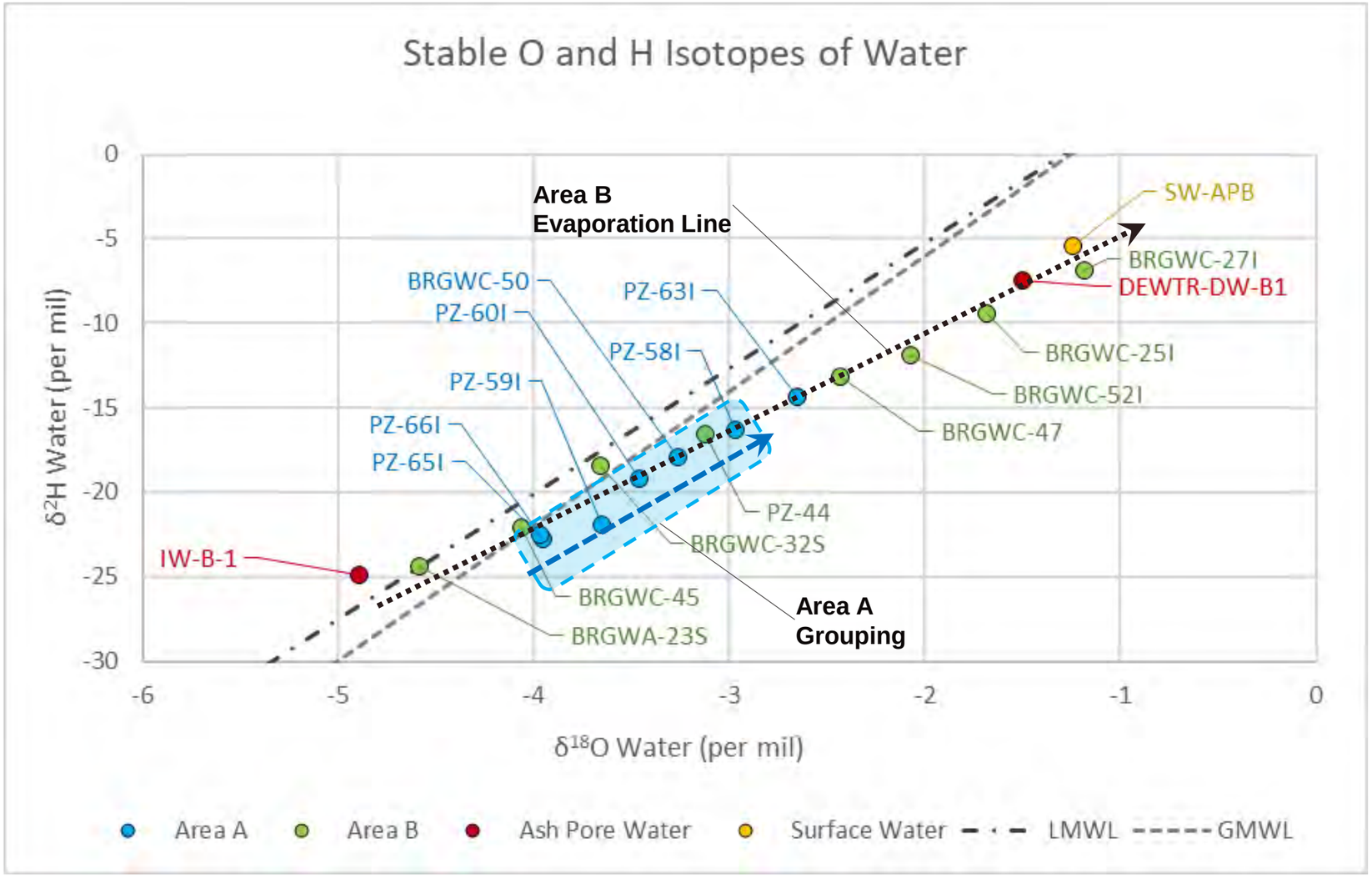


This is an example plot from another site used here to illustrate this isotopic technique

Figure 8
Stable O and H Isotopes of Water for Site Samples

- Distinct grouping of Area A wells
- PZ-63I trending towards Area B wells – PZ-63I is mixture of Area A and Area B groundwater
- Increasing evaporation signal observed for Area B Wells
- Surface water sample SW-APB most evaporated





- Local meteoric water line (LMWL) based on precipitation samples collected at Panola Mount, GA (Kendall and Coplen 2001)

Attachment A

Laboratory Analytical Reports

Page: 1 of 2
Project #
Quote #:
COC Number [1]:
PO Number:

Chain of Custody and Analytical Request

Work Order Number:

Stratum Reservoir (Isotech)
Sample Receiving
1308 Parkland Ct
Champaign, IL 61821-1826
Contact: Margaret Gentile (Margy)

Client Name: Arcadis | Phone # 510 432 6251
Project/Site Name: Plant Branch Ash Ponds - BCD Additional | Fax #
Collected By: J. Bertlood ACC | Send Results To: <Margaret.Gentile@arcadis.com>

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI	Isotopes	<-- Preservative Type (6)	Comments
BRA-BRGWA-23S	04/24/23	0940	G	Y	WG			1	✓			field pH = 5.55
BRA-PZ-66I	04/24/23	1210	G	Y	WG			1	✓			field pH = 5.72
BRA-PZ-59I	04/24/23	1336	G	Y	WG			1	✓			field pH = 3.70 (Time 1336)
BRA-PZ-65I	04/24/23	1715	G	Y	WG			1	✓			field pH = 4.22
BRA-BRGWC-45	04/24/23	1825	G	Y	WG			1	✓			field pH = 5.90
BRA-PZ-58I	04/25/23	0940	G	Y	WG			1	✓			field pH = 3.93
BRA-PZ-60I	04/25/23	1050	G	Y	WG			1	✓			field pH = 4.58
BRA-BRGWC-50	04/25/23	1315	G	Y	WG			1	✓			field pH = 5.09
BRA-PZ-63I	04/25/23	1500	G	Y	WG			1	✓			field pH = 5.59
BRA-APBCD-FD-02	04/25/23	—	G	Y	W WG			1	✓			field pH = —

Comments: Note: extra sample is required for sample specific QC
Task_Code: BRA-CCR-OTH-20230424

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	[signature]	4/26/23	1500	1 Feder	4/26/23	1500
2				2 Les Schluter / SR Isotech	4/27/23	9:10
3				3		

TAT Requested: Normal: x Rush: _____ Specify: _____ (Subject to Surcharge)

Fax Results: [ ] Yes [x] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [x] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks:

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] Yes [ ] No *Cooler Temp:* 3.5 °C

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **WD**=Drinking Water, **WG**=Groundwater, **WS**=Surface Water, **WW**=Waste Water, **WL**=Leachate, **SO**=Soil, **SE**=Sediment, **SL**=Sludge, **WQ**=Water Quality Control Matrix W = water

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

Page: 2 of 2
Project #
Quote #:
COC Number [1]:
PO Number:

Chain of Custody and Analytical Request

Stratum Reservoir (Isotech)
Sample Receiving
1308 Parkland Ct
Champaign, IL 61821-1826
Contact: Margaret Gentile (Margy)

Work Order Number:

Client Name: Arcadis | Phone # 510 432 6251
Project/Site Name: Plant Branch Ash Ponds - BCD Additional | Fax #
Collected By: JB ACC | Send Results To: <Margaret.Gentile@arcadis.com>

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Isotopes	<-- Preservative Type (6)
BRA- BRGWC-25I	04/24/23	1339	G	Y	WG			1	✓	field pH = 6.25
BRA- BRGWC-52I	04/24/23	1538	G	Y	WG			1	✓	field pH = 6.63
BRA- IW-B-1	04/24/23	1138	G	Y	WG			1	✓	field pH = 6.08
BRA- PZ-44	04/25/23	1012	G	Y	WG			1	✓	field pH = 6.24
BRA- DEWTR-DW-B1	04/25/23	1405	G	Y	WG			1	✓	field pH = 6.64
BRA- BRGWC-47	04/25/23	1531	G	Y	WG			1	✓	field pH = 5.64
BRA- SW-APB	04/25/23	1620	G	Y	WG			1	✓	field pH = 7.49
BRA- APBCD-FD-03	04/25/23	—	G	Y	~~WG~~ W			1	✓	field pH = —
BRA- APBCD-FD-01	04/24/23	—	G	Y	~~WG~~ W			1	✓	field pH = —
BRA-			G	Y	WG					field pH =

Comments
Note: extra sample is required for sample specific QC
Task_Code: BRA-CCR-OTH-2023~~04~~24

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	4/26/23	1500	1 Fedex	4/26/23	1500
2			2 Les Schluter / SR Isotech	4-27-23	9:10
3			3		

TAT Requested: Normal: x Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [x] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [x] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks:

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] Yes [ ] No ***Cooler Temp:*** 3.5 °C

> For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **WD**=Drinking Water, **WG**=Groundwater, **WS**=Surface Water, **WW**=Waste Water, **WL**=Leachate, **SO**=Soil, **SE**=Sediment, **SL**=Sludge, **WQ**=Water Quality Control Matrix W = water

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

ISOTECH
a Stratum Reservoir brand
www.isotechlabs.com

Lab #:	868656	Job #:	54372	IS-105648	Co. Job#:
Sample Name:	BRA-BRGWA-23S				Co. Lab#:
Company:	Arcadis U.S., Inc.				
API/Well:					
Container:	125ml bottle				
Field/Site Name:	Plant Branch Ash Ponds - BCD Additional / 30178565.00001				
Location:					
Formation/Depth:					
Sampling Point:					
Date Sampled:	4/24/2023 9:40	Date Received:	4/27/2023	Date Reported:	5/22/2023

δD of water	----------	-24.4 ‰ relative to VSMOW
$\delta^{18}O$ of water	----------	-4.58 ‰ relative to VSMOW
Tritium content of water	----------	na
$\delta^{13}C$ of DIC	----------	na
^{14}C content of DIC	----------	na
$\delta^{15}N$ of nitrate	----------	na
$\delta^{18}O$ of nitrate	----------	na
$\delta^{34}S$ of sulfate	----------	8.4 ‰ relative to VCDT
$\delta^{18}O$ of sulfate	----------	7.2 ‰ relative to VSMOW
Vacuum Distilled? *	----------	No

Remarks:

nd = not detected. na = not analyzed.
*Indicates if vacuum distillation was utilized for hydrogen and oxygen isotopic analysis of water

ISOTECH
a Stratum Reservoir brand
www.isotechlabs.com

Lab #:	868657	Job #:	54372	IS-105648	Co. Job#:
Sample Name:	BRA-P2-66I				Co. Lab#:
Company:	Arcadis U.S., Inc.				
API/Well:					
Container:	125ml bottle				
Field/Site Name:	Plant Branch Ash Ponds - BCD Additional / 30178565.00001				
Location:					
Formation/Depth:					
Sampling Point:					
Date Sampled:	4/24/2023 12:10	Date Received:	4/27/2023	Date Reported:	5/22/2023

δD of water	----------	-22.5 ‰ relative to VSMOW
δ^{18}O of water	----------	-3.97 ‰ relative to VSMOW
Tritium content of water	----------	na
δ^{13}C of DIC	----------	na
^{14}C content of DIC	----------	na
δ^{15}N of nitrate	----------	na
δ^{18}O of nitrate	----------	na
δ^{34}S of sulfate	----------	4.8 ‰ relative to VCDT
δ^{18}O of sulfate	----------	1.4 ‰ relative to VSMOW
Vacuum Distilled? *	----------	No

Remarks:

nd = not detected. na = not analyzed.
*Indicates if vacuum distillation was utilized for hydrogen and oxygen isotopic analysis of water

ISOTECH
a Stratum Reservoir brand
www.isotechlabs.com

Lab #:	868658	Job #:	54372	IS-105648	Co. Job#:
Sample Name:	BRA-P2-59I				Co. Lab#:
Company:	Arcadis U.S., Inc.				
API/Well:					
Container:	125ml bottle				
Field/Site Name:	Plant Branch Ash Ponds - BCD Additional / 30178565.00001				
Location:					
Formation/Depth:					
Sampling Point:					
Date Sampled:	4/24/2023 13:36	Date Received:	4/27/2023	Date Reported:	5/22/2023

δD of water	----------	-21.9 ‰ relative to VSMOW
δ^{18}O of water	----------	-3.65 ‰ relative to VSMOW
Tritium content of water	----------	na
δ^{13}C of DIC	----------	na
^{14}C content of DIC	----------	na
δ^{15}N of nitrate	----------	na
δ^{18}O of nitrate	----------	na
δ^{34}S of sulfate	----------	5.6 ‰ relative to VCDT
δ^{18}O of sulfate	----------	0.4 ‰ relative to VSMOW
Vacuum Distilled? *	----------	No

Remarks:

nd = not detected. na = not analyzed.
*Indicates if vacuum distillation was utilized for hydrogen and oxygen isotopic analysis of water

ISOTECH
a Stratum Reservoir brand
www.isotechlabs.com

Lab #:	868659	Job #:	54372	IS-105648	Co. Job#:
Sample Name:	BRA-P2-65I				Co. Lab#:
Company:	Arcadis U.S., Inc.				
API/Well:					
Container:	125ml bottle				
Field/Site Name:	Plant Branch Ash Ponds - BCD Additional / 30178565.00001				
Location:					
Formation/Depth:					
Sampling Point:					
Date Sampled:	4/24/2023 17:15	Date Received:	4/27/2023	Date Reported:	5/22/2023

δD of water	----------	-22.8 ‰ relative to VSMOW
$\delta^{18}O$ of water	----------	-3.95 ‰ relative to VSMOW
Tritium content of water	----------	na
$\delta^{13}C$ of DIC	----------	na
^{14}C content of DIC	----------	na
$\delta^{15}N$ of nitrate	----------	na
$\delta^{18}O$ of nitrate	----------	na
$\delta^{34}S$ of sulfate	----------	5.9 ‰ relative to VCDT
$\delta^{18}O$ of sulfate	----------	1.4 ‰ relative to VSMOW
Vacuum Distilled? *	----------	No

Remarks:

nd = not detected. na = not analyzed.
*Indicates if vacuum distillation was utilized for hydrogen and oxygen isotopic analysis of water

ISOTECH
a Stratum Reservoir brand
www.isotechlabs.com

Lab #:	868660	Job #:	54372	IS-105648	Co. Job#:
Sample Name:	BRA-BRGWC-45				Co. Lab#:
Company:	Arcadis U.S., Inc.				
API/Well:					
Container:	125ml bottle				
Field/Site Name:	Plant Branch Ash Ponds - BCD Additional / 30178565.00001				
Location:					
Formation/Depth:					
Sampling Point:					
Date Sampled:	4/24/2023 18:25	Date Received:	4/27/2023	Date Reported:	5/22/2023

δD of water	----------	-22.1 ‰ relative to VSMOW
$\delta^{18}O$ of water	----------	-4.06 ‰ relative to VSMOW
Tritium content of water	----------	na
$\delta^{13}C$ of DIC	----------	na
^{14}C content of DIC	----------	na
$\delta^{15}N$ of nitrate	----------	na
$\delta^{18}O$ of nitrate	----------	na
$\delta^{34}S$ of sulfate	----------	5.7 ‰ relative to VCDT
$\delta^{18}O$ of sulfate	----------	6.9 ‰ relative to VSMOW
Vacuum Distilled? *	----------	No

Remarks:

nd = not detected. na = not analyzed.
*Indicates if vacuum distillation was utilized for hydrogen and oxygen isotopic analysis of water

ISOTECH
a Stratum Reservoir brand
www.isotechlabs.com

Lab #:	868661	Job #:	54372	IS-105648	Co. Job#:
Sample Name:	BRA-P2-58I				Co. Lab#:
Company:	Arcadis U.S., Inc.				
API/Well:					
Container:	125ml bottle				
Field/Site Name:	Plant Branch Ash Ponds - BCD Additional / 30178565.00001				
Location:					
Formation/Depth:					
Sampling Point:					
Date Sampled:	4/25/2023 9:40	Date Received:	4/27/2023	Date Reported:	5/22/2023

δD of water	----------	-16.3 ‰ relative to VSMOW
$\delta^{18}O$ of water	----------	-2.97 ‰ relative to VSMOW
Tritium content of water	----------	na
$\delta^{13}C$ of DIC	----------	na
^{14}C content of DIC	----------	na
$\delta^{15}N$ of nitrate	----------	na
$\delta^{18}O$ of nitrate	----------	na
$\delta^{34}S$ of sulfate	----------	5.2 ‰ relative to VCDT
$\delta^{18}O$ of sulfate	----------	1.9 ‰ relative to VSMOW
Vacuum Distilled? *	----------	No

Remarks:

nd = not detected. na = not analyzed.
*Indicates if vacuum distillation was utilized for hydrogen and oxygen isotopic analysis of water

ISOTECH
a Stratum Reservoir brand
www.isotechlabs.com

Lab #:	868662	Job #:	54372	IS-105648	Co. Job#:
Sample Name:	BRA-P2-60I				Co. Lab#:
Company:	Arcadis U.S., Inc.				
API/Well:					
Container:	125ml bottle				
Field/Site Name:	Plant Branch Ash Ponds - BCD Additional / 30178565.00001				
Location:					
Formation/Depth:					
Sampling Point:					
Date Sampled:	4/25/2023 10:50	Date Received:	4/27/2023	Date Reported:	5/22/2023

δD of water	----------	-19.2 ‰ relative to VSMOW
$\delta^{18}O$ of water	----------	-3.46 ‰ relative to VSMOW
Tritium content of water	----------	na
$\delta^{13}C$ of DIC	----------	na
^{14}C content of DIC	----------	na
$\delta^{15}N$ of nitrate	----------	na
$\delta^{18}O$ of nitrate	----------	na
$\delta^{34}S$ of sulfate	----------	4.8 ‰ relative to VCDT
$\delta^{18}O$ of sulfate	----------	1.1 ‰ relative to VSMOW
Vacuum Distilled? *	----------	No

Remarks:

nd = not detected. na = not analyzed.
*Indicates if vacuum distillation was utilized for hydrogen and oxygen isotopic analysis of water

ISOTECH
a Stratum Reservoir brand
www.isotechlabs.com

Lab #:	868663	Job #:	54372	IS-105648	Co. Job#:
Sample Name:	BRA-BRGWC-50				Co. Lab#:
Company:	Arcadis U.S., Inc.				
API/Well:					
Container:	125ml bottle				
Field/Site Name:	Plant Branch Ash Ponds - BCD Additional / 30178565.00001				
Location:					
Formation/Depth:					
Sampling Point:					
Date Sampled:	4/25/2023 13:15	Date Received:	4/27/2023	Date Reported:	5/22/2023

δD of water	----------	-17.9 ‰ relative to VSMOW
$\delta^{18}O$ of water	----------	-3.26 ‰ relative to VSMOW
Tritium content of water	----------	na
$\delta^{13}C$ of DIC	----------	na
^{14}C content of DIC	----------	na
$\delta^{15}N$ of nitrate	----------	na
$\delta^{18}O$ of nitrate	----------	na
$\delta^{34}S$ of sulfate	----------	4.6 ‰ relative to VCDT
$\delta^{18}O$ of sulfate	----------	1.1 ‰ relative to VSMOW
Vacuum Distilled? *	----------	No

Remarks:

nd = not detected. na = not analyzed.
*Indicates if vacuum distillation was utilized for hydrogen and oxygen isotopic analysis of water

ISOTECH
a Stratum Reservoir brand
www.isotechlabs.com

Lab #:	868664	Job #:	54372	IS-105648	Co. Job#:
Sample Name:	BRA-PZ-63I				Co. Lab#:
Company:	Arcadis U.S., Inc.				
API/Well:					
Container:	125ml bottle				
Field/Site Name:	Plant Branch Ash Ponds - BCD Additional / 30178565.00001				
Location:					
Formation/Depth:					
Sampling Point:					
Date Sampled:	4/25/2023 15:00	Date Received:	4/27/2023	Date Reported:	5/22/2023

δD of water	----------	-14.4 ‰ relative to VSMOW
δ^{18}O of water	----------	-2.65 ‰ relative to VSMOW
Tritium content of water	----------	na
δ^{13}C of DIC	----------	na
^{14}C content of DIC	----------	na
δ^{15}N of nitrate	----------	na
δ^{18}O of nitrate	----------	na
δ^{34}S of sulfate	----------	7.4 ‰ relative to VCDT
δ^{18}O of sulfate	----------	7.0 ‰ relative to VSMOW
Vacuum Distilled? *	----------	No

Remarks:

nd = not detected. na = not analyzed.
*Indicates if vacuum distillation was utilized for hydrogen and oxygen isotopic analysis of water

ISOTECH
a Stratum Reservoir brand
www.isotechlabs.com

Lab #:	868665	Job #:	54372	IS-105648	Co. Job#:
Sample Name:	BRA-APBCD-FD-02				Co. Lab#:
Company:	Arcadis U.S., Inc.				
API/Well:					
Container:	125ml bottle				
Field/Site Name:	Plant Branch Ash Ponds - BCD Additional / 30178565.00001				
Location:					
Formation/Depth:					
Sampling Point:					
Date Sampled:	4/25/2023	Date Received:	4/27/2023	Date Reported:	5/22/2023

δD of water	----------	-19.7 ‰ relative to VSMOW
δ^{18}O of water	----------	-3.32 ‰ relative to VSMOW
Tritium content of water	----------	na
δ^{13}C of DIC	----------	na
^{14}C content of DIC	----------	na
δ^{15}N of nitrate	----------	na
δ^{18}O of nitrate	----------	na
δ^{34}S of sulfate	----------	4.8 ‰ relative to VCDT
δ^{18}O of sulfate	----------	1.1 ‰ relative to VSMOW
Vacuum Distilled? *	----------	No

Remarks:

nd = not detected. na = not analyzed.
*Indicates if vacuum distillation was utilized for hydrogen and oxygen isotopic analysis of water

ISOTECH
a Stratum Reservoir brand
www.isotechlabs.com

Lab #:	868666	Job #:	54372	IS-105648	Co. Job#:
Sample Name:	BRA-BRGWC-25I				Co. Lab#:
Company:	Arcadis U.S., Inc.				
API/Well:					
Container:	125ml bottle				
Field/Site Name:	Plant Branch Ash Ponds - BCD Additional / 30178565.00001				
Location:					
Formation/Depth:					
Sampling Point:					
Date Sampled:	4/24/2023 13:39	Date Received:	4/27/2023	Date Reported:	5/22/2023

δD of water	----------	-9.4 ‰ relative to VSMOW
$\delta^{18}O$ of water	----------	-1.68 ‰ relative to VSMOW
Tritium content of water	----------	na
$\delta^{13}C$ of DIC	----------	na
^{14}C content of DIC	----------	na
$\delta^{15}N$ of nitrate	----------	na
$\delta^{18}O$ of nitrate	----------	na
$\delta^{34}S$ of sulfate	----------	11.5 ‰ relative to VCDT
$\delta^{18}O$ of sulfate	----------	23.3 ‰ relative to VSMOW
Vacuum Distilled? *	----------	No

Remarks:

nd = not detected. na = not analyzed.
*Indicates if vacuum distillation was utilized for hydrogen and oxygen isotopic analysis of water

ISOTECH
a Stratum Reservoir brand
www.isotechlabs.com

Lab #:	868667	Job #:	54372	IS-105648	Co. Job#:
Sample Name:	BRA-BRGWC-52I				Co. Lab#:
Company:	Arcadis U.S., Inc.				
API/Well:					
Container:	125ml bottle				
Field/Site Name:	Plant Branch Ash Ponds - BCD Additional / 30178565.00001				
Location:					
Formation/Depth:					
Sampling Point:					
Date Sampled:	4/24/2023 15:38	Date Received:	4/27/2023	Date Reported:	5/22/2023

δD of water	----------	-11.9 ‰ relative to VSMOW
δ^{18}O of water	----------	-2.07 ‰ relative to VSMOW
Tritium content of water	----------	na
δ^{13}C of DIC	----------	na
^{14}C content of DIC	----------	na
δ^{15}N of nitrate	----------	na
δ^{18}O of nitrate	----------	na
δ^{34}S of sulfate	----------	12.0 ‰ relative to VCDT
δ^{18}O of sulfate	----------	23.7 ‰ relative to VSMOW
Vacuum Distilled? *	----------	No

Remarks:

nd = not detected. na = not analyzed.
*Indicates if vacuum distillation was utilized for hydrogen and oxygen isotopic analysis of water

ISOTECH
a Stratum Reservoir brand
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Lab #:	868668	Job #:	54372	IS-105648	Co. Job#:
Sample Name:	BRA-IW-B-1				Co. Lab#:
Company:	Arcadis U.S., Inc.				
API/Well:					
Container:	125ml bottle				
Field/Site Name:	Plant Branch Ash Ponds - BCD Additional / 30178565.00001				
Location:					
Formation/Depth:					
Sampling Point:					
Date Sampled:	4/24/2023 11:38	Date Received:	4/27/2023	Date Reported:	5/22/2023

δD of water	----------	-24.9 ‰ relative to VSMOW
δ^{18}O of water	----------	-4.89 ‰ relative to VSMOW
Tritium content of water	----------	na
δ^{13}C of DIC	----------	na
^{14}C content of DIC	----------	na
δ^{15}N of nitrate	----------	na
δ^{18}O of nitrate	----------	na
δ^{34}S of sulfate	----------	7.5 ‰ relative to VCDT
δ^{18}O of sulfate	----------	7.9 ‰ relative to VSMOW
Vacuum Distilled? *	----------	No

Remarks:

nd = not detected. na = not analyzed.
*Indicates if vacuum distillation was utilized for hydrogen and oxygen isotopic analysis of water

ISOTECH
a Stratum Reservoir brand
www.isotechlabs.com

Lab #:	868669	Job #:	54372	IS-105648	Co. Job#:
Sample Name:	BRA-PZ-44				Co. Lab#:
Company:	Arcadis U.S., Inc.				
API/Well:					
Container:	125ml bottle				
Field/Site Name:	Plant Branch Ash Ponds - BCD Additional / 30178565.00001				
Location:					
Formation/Depth:					
Sampling Point:					
Date Sampled:	4/25/2023 10:12	Date Received:	4/27/2023	Date Reported:	5/22/2023

δD of water	----------	-16.6 ‰ relative to VSMOW
$\delta^{18}O$ of water	----------	-3.12 ‰ relative to VSMOW
Tritium content of water	----------	na
$\delta^{13}C$ of DIC	----------	na
^{14}C content of DIC	----------	na
$\delta^{15}N$ of nitrate	----------	na
$\delta^{18}O$ of nitrate	----------	na
$\delta^{34}S$ of sulfate	----------	23.7 ‰ relative to VCDT
$\delta^{18}O$ of sulfate	----------	21.2 ‰ relative to VSMOW
Vacuum Distilled? *	----------	No

Remarks:

nd = not detected. na = not analyzed.
*Indicates if vacuum distillation was utilized for hydrogen and oxygen isotopic analysis of water

ISOTECH
a Stratum Reservoir brand
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Lab #:	868670	Job #:	54372	IS-105648	Co. Job#:
Sample Name:	BRA-DEWTR-DW-B1				Co. Lab#:
Company:	Arcadis U.S., Inc.				
API/Well:					
Container:	125ml bottle				
Field/Site Name:	Plant Branch Ash Ponds - BCD Additional / 30178565.00001				
Location:					
Formation/Depth:					
Sampling Point:					
Date Sampled:	4/25/2023 14:05	Date Received:	4/27/2023	Date Reported:	5/22/2023

δD of water	----------	-7.5 ‰ relative to VSMOW
$\delta^{18}O$ of water	----------	-1.50 ‰ relative to VSMOW
Tritium content of water	----------	na
$\delta^{13}C$ of DIC	----------	na
^{14}C content of DIC	----------	na
$\delta^{15}N$ of nitrate	----------	na
$\delta^{18}O$ of nitrate	----------	na
$\delta^{34}S$ of sulfate	----------	8.1 ‰ relative to VCDT
$\delta^{18}O$ of sulfate	----------	15.5 ‰ relative to VSMOW
Vacuum Distilled? *	----------	No

Remarks:

nd = not detected. na = not analyzed.
*Indicates if vacuum distillation was utilized for hydrogen and oxygen isotopic analysis of water

ISOTECH
a Stratum Reservoir brand
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Lab #:	868671	Job #:	54372	IS-105648	Co. Job#:
Sample Name:	BRA-BRGWC-47				Co. Lab#:
Company:	Arcadis U.S., Inc.				
API/Well:					
Container:	125ml bottle				
Field/Site Name:	Plant Branch Ash Ponds - BCD Additional / 30178565.00001				
Location:					
Formation/Depth:					
Sampling Point:					
Date Sampled:	4/25/2023 15:31	Date Received:	4/27/2023	Date Reported:	5/22/2023

δD of water	----------	-13.2 ‰ relative to VSMOW
$\delta^{18}O$ of water	----------	-2.43 ‰ relative to VSMOW
Tritium content of water	----------	na
$\delta^{13}C$ of DIC	----------	na
^{14}C content of DIC	----------	na
$\delta^{15}N$ of nitrate	----------	na
$\delta^{18}O$ of nitrate	----------	na
$\delta^{34}S$ of sulfate	----------	3.2 ‰ relative to VCDT
$\delta^{18}O$ of sulfate	----------	7.2 ‰ relative to VSMOW
Vacuum Distilled? *	----------	No

Remarks:

nd = not detected. na = not analyzed.
*Indicates if vacuum distillation was utilized for hydrogen and oxygen isotopic analysis of water

ISOTECH
a Stratum Reservoir brand
www.isotechlabs.com

Lab #:	868672	Job #:	54372	IS-105648	Co. Job#:
Sample Name:	BRA-SW-APB				Co. Lab#:
Company:	Arcadis U.S., Inc.				
API/Well:					
Container:	125ml bottle				
Field/Site Name:	Plant Branch Ash Ponds - BCD Additional / 30178565.00001				
Location:					
Formation/Depth:					
Sampling Point:					
Date Sampled:	4/25/2023 16:20	Date Received:	4/27/2023	Date Reported:	5/22/2023

δD of water	----------	-5.4 ‰ relative to VSMOW
$\delta^{18}O$ of water	----------	-1.24 ‰ relative to VSMOW
Tritium content of water	----------	na
$\delta^{13}C$ of DIC	----------	na
^{14}C content of DIC	----------	na
$\delta^{15}N$ of nitrate	----------	na
$\delta^{18}O$ of nitrate	----------	na
$\delta^{34}S$ of sulfate	----------	7.2 ‰ relative to VCDT
$\delta^{18}O$ of sulfate	----------	18.3 ‰ relative to VSMOW
Vacuum Distilled? *	----------	No

Remarks:

nd = not detected. na = not analyzed.
*Indicates if vacuum distillation was utilized for hydrogen and oxygen isotopic analysis of water

ISOTECH
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Lab #:	868673	Job #:	54372	IS-105648	Co. Job#:
Sample Name:	BRA-APBCD-FD-03				Co. Lab#:
Company:	Arcadis U.S., Inc.				
API/Well:					
Container:	125ml bottle				
Field/Site Name:	Plant Branch Ash Ponds - BCD Additional / 30178565.00001				
Location:					
Formation/Depth:					
Sampling Point:					
Date Sampled:	4/25/2023	Date Received:	4/27/2023	Date Reported:	5/22/2023

δD of water	----------	-5.7 ‰ relative to VSMOW
δ^{18}O of water	----------	-1.27 ‰ relative to VSMOW
Tritium content of water	----------	na
δ^{13}C of DIC	----------	na
^{14}C content of DIC	----------	na
δ^{15}N of nitrate	----------	na
δ^{18}O of nitrate	----------	na
δ^{34}S of sulfate	----------	7.1 ‰ relative to VCDT
δ^{18}O of sulfate	----------	18.9 ‰ relative to VSMOW
Vacuum Distilled? *	----------	No

Remarks:

nd = not detected. na = not analyzed.
*Indicates if vacuum distillation was utilized for hydrogen and oxygen isotopic analysis of water

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Lab #:	868674	Job #:	54372	IS-105648	Co. Job#:
Sample Name:	BRA-APBCD-FD-01				Co. Lab#:
Company:	Arcadis U.S., Inc.				
API/Well:					
Container:	125ml bottle				
Field/Site Name:	Plant Branch Ash Ponds - BCD Additional / 30178565.00001				
Location:					
Formation/Depth:					
Sampling Point:					
Date Sampled:	4/24/2023	Date Received:	4/27/2023	Date Reported:	5/22/2023

δD of water	----------	-11.7 ‰ relative to VSMOW
δ^{18}O of water	----------	-1.80 ‰ relative to VSMOW
Tritium content of water	----------	na
δ^{13}C of DIC	----------	na
^{14}C content of DIC	----------	na
δ^{15}N of nitrate	----------	na
δ^{18}O of nitrate	----------	na
δ^{34}S of sulfate	----------	11.9 ‰ relative to VCDT
δ^{18}O of sulfate	----------	23.5 ‰ relative to VSMOW
Vacuum Distilled? *	----------	No

Remarks:

nd = not detected. na = not analyzed.
*Indicates if vacuum distillation was utilized for hydrogen and oxygen isotopic analysis of water

GEL Laboratories LLC
a member of The GEL Group INC

PO Box 30712 Charleston, SC 29417
2040 Savage Road Charleston, SC 29407
P 843.556.8171
F 843.766.1178

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May 10, 2023

Joju Abraham
Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308

Re: Branch CCR Groundwater Compliance APBCD
Work Order: 619768

Dear Joju Abraham:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on April 26, 2023. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. Samples preserved upon arrival*619768012(BRA-BRGWC-52I), 619768013(BRA-IW-B-1)*.

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4504.

Sincerely,

Anna Johnson for
Erin Trent
Project Manager

Purchase Order: GPC82177-0006
Enclosures

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 619768 GEL Work Order: 619768

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

J Value is estimated

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Erin Trent.

Reviewed by Anna Johnson

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: May 10, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-BRGWA-23S	Project:	GPCC00101
Sample ID:	619768001	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	24-APR-23 09:40		
Receive Date:	26-APR-23		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		5.55			SU			EOS1	04/24/23	0940	2419622	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		2.59	0.0670	0.200	mg/L		1	JLD1	04/26/23	1822	2419737	2
Fluoride	J	0.0690	0.0330	0.100	mg/L		1					
Sulfate		13.0	0.133	0.400	mg/L		1					
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron	J	0.0454	0.0260	0.0750	mg/L	1.00	5	SKJ	05/05/23	1451	2420021	3
Calcium		6.57	0.400	1.00	mg/L	1.00	5					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		91.0	2.38	10.0	mg/L			CH6	04/27/23	1533	2419973	4

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	EM2	05/01/23	1535	2420018

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	EPA 300.0	
3	SW846 3005A/6020B	
4	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: May 10, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-PZ-66I	Project:	GPCC00101
Sample ID:	619768002	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	24-APR-23 12:10		
Receive Date:	26-APR-23		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		5.72			SU			EOS1	04/24/23	1210	2419622	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		1960	33.3	100	mg/L		250	JLD1	04/27/23	0848	2419737	2
Chloride		11.6	0.335	1.00	mg/L		5	JLD1	04/26/23	1851	2419737	3
Fluoride	U	ND	0.165	0.500	mg/L		5					
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Calcium		223	0.400	1.00	mg/L	1.00	5	SKJ	05/03/23	1612	2420021	4
Boron		0.134	0.00520	0.0150	mg/L	1.00	1	SKJ	05/03/23	1628	2420021	5
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		2860	23.8	100	mg/L			CH6	05/01/23	1312	2421000	6

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	EM2	05/01/23	1535	2420018

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	

Notes:

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Certificate of Analysis

Report Date: May 10, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-PZ-66I
Sample ID: 619768002
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: May 10, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-PZ-59I	Project:	GPCC00101
Sample ID:	619768003	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	24-APR-23 13:36		
Receive Date:	26-APR-23		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		3.70			SU			EOS1	04/24/23	1336	2419622	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		38.7	0.670	2.00	mg/L		10	JLD1	04/26/23	1921	2419737	2
Fluoride		2.33	0.330	1.00	mg/L		10					
Sulfate		2970	33.3	100	mg/L		250	JLD1	04/27/23	0918	2419737	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Calcium		274	0.800	2.00	mg/L	1.00	10	SKJ	05/05/23	1500	2420021	4
Boron		0.0588	0.00520	0.0150	mg/L	1.00	1	SKJ	05/03/23	1630	2420021	5
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		4190	23.8	100	mg/L			CH6	05/01/23	1312	2421000	6

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	EM2	05/01/23	1535	2420018

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	

Notes:

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Certificate of Analysis

Report Date: May 10, 2023

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-PZ-59I	Project:	GPCC00101
Sample ID:	619768003	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: May 10, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-PZ-65I	Project:	GPCC00101
Sample ID:	619768004	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	24-APR-23 17:15		
Receive Date:	26-APR-23		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		4.22			SU			EOS1	04/24/23	1715	2419622	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		31.1	0.335	1.00	mg/L		5	JLD1	04/26/23	1951	2419737	2
Fluoride		1.50	0.165	0.500	mg/L		5					
Sulfate		2680	33.3	100	mg/L		250	JLD1	04/27/23	0948	2419737	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		0.0299	0.00520	0.0150	mg/L	1.00	1	SKJ	05/03/23	1632	2420021	4
Calcium		242	0.400	1.00	mg/L	1.00	5	SKJ	05/03/23	1616	2420021	5
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		3530	23.8	100	mg/L			CH6	05/01/23	1353	2421004	6

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	EM2	05/01/23	1535	2420018

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	

Notes:

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Certificate of Analysis

Report Date: May 10, 2023

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-PZ-65I	Project:	GPCC00101
Sample ID:	619768004	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: May 10, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-BRGWC-45	Project:	GPCC00101
Sample ID:	619768005	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	24-APR-23 18:25		
Receive Date:	26-APR-23		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		5.90			SU			EOS1	04/24/23	1825	2419622	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	U	ND	0.0330	0.100	mg/L		1	JLD1	04/27/23	1018	2419737	2
Chloride		18.3	0.335	1.00	mg/L		5	JLD1	04/26/23	2021	2419737	3
Sulfate		108	3.33	10.0	mg/L		25	JLD1	04/27/23	1048	2419737	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		0.0403	0.00520	0.0150	mg/L	1.00	1	SKJ	05/03/23	1633	2420021	5
Calcium		32.3	0.0800	0.200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		250	2.38	10.0	mg/L			CH6	05/01/23	1353	2421004	6

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	EM2	05/01/23	1535	2420018

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	EPA 300.0	
3	EPA 300.0	
4	EPA 300.0	
5	SW846 3005A/6020B	
6	SM 2540C	

Notes:

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Report Date: May 10, 2023

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-BRGWC-45	Project:	GPCC00101
Sample ID:	619768005	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-PZ-58I	Project:	GPCC00101
Sample ID:	619768006	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	25-APR-23 09:40		
Receive Date:	26-APR-23		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		3.93			SU			EOS1	04/25/23	0940	2419622	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		11.3	0.335	1.00	mg/L		5	JLD1	04/26/23	2051	2419737	2
Fluoride		0.926	0.165	0.500	mg/L		5					
Sulfate		871	13.3	40.0	mg/L		100	JLD1	04/27/23	2318	2419737	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		0.435	0.0260	0.0750	mg/L	1.00	5	SKJ	05/03/23	1635	2420021	4
Calcium		145	0.400	1.00	mg/L	1.00	5					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1340	4.76	20.0	mg/L			CH6	05/01/23	1353	2421004	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	EM2	05/01/23	1535	2420018

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 3005A/6020B	
5	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-PZ-60I	Project:	GPCC00101
Sample ID:	619768007	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	25-APR-23 10:50		
Receive Date:	26-APR-23		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		4.58			SU			EOS1	04/25/23	1050	2419622	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		1890	33.3	100	mg/L		250	JLD1	04/27/23	2348	2419737	2
Chloride		26.9	0.335	1.00	mg/L		5	JLD1	04/26/23	2121	2419737	3
Fluoride		1.30	0.165	0.500	mg/L		5					
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		0.294	0.0260	0.0750	mg/L	1.00	5	SKJ	05/03/23	1637	2420021	4
Calcium		284	0.800	2.00	mg/L	1.00	10	SKJ	05/05/23	1502	2420021	5
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		2790	23.8	100	mg/L			CH6	05/01/23	1353	2421004	6

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	EM2	05/01/23	1535	2420018

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	

Notes:

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Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-PZ-60I	Project:	GPCC00101
Sample ID:	619768007	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-BRGWC-50	Project:	GPCC00101
Sample ID:	619768008	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	25-APR-23 13:15		
Receive Date:	26-APR-23		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		5.09			SU			EOS1	04/25/23	1315	2419622	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		1560	26.6	80.0	mg/L		200	JLD1	04/28/23	0117	2419737	2
Chloride		16.1	0.335	1.00	mg/L		5	JLD1	04/26/23	2151	2419737	3
Fluoride	J	0.235	0.165	0.500	mg/L		5					
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		0.355	0.0260	0.0750	mg/L	1.00	5	SKJ	05/03/23	1643	2420021	4
Calcium		218	0.400	1.00	mg/L	1.00	5					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		2060	4.76	20.0	mg/L			CH6	05/01/23	1353	2421004	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	EM2	05/01/23	1535	2420018

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 3005A/6020B	
5	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-PZ-63I	Project:	GPCC00101
Sample ID:	619768009	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	25-APR-23 15:00		
Receive Date:	26-APR-23		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		5.59			SU			EOS1	04/25/23	1500	2419622	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		315	3.33	10.0	mg/L		25	JLD1	04/28/23	1015	2419737	2
Fluoride		0.101	0.0330	0.100	mg/L		1	JLD1	04/28/23	0147	2419737	3
Chloride		6.44	0.335	1.00	mg/L		5	JLD1	04/26/23	2220	2419737	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		0.741	0.0260	0.0750	mg/L	1.00	5	SKJ	05/03/23	1645	2420021	5
Calcium		51.6	0.400	1.00	mg/L	1.00	5					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		469	2.38	10.0	mg/L			CH6	05/01/23	1353	2421004	6

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	EM2	05/01/23	1535	2420018

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	EPA 300.0	
3	EPA 300.0	
4	EPA 300.0	
5	SW846 3005A/6020B	
6	SM 2540C	

Notes:

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Certificate of Analysis

Report Date: May 10, 2023

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-PZ-63I	Project:	GPCC00101
Sample ID:	619768009	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: May 10, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-APBCD-FD-02	Project:	GPCC00101
Sample ID:	619768010	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	25-APR-23 12:00		
Receive Date:	26-APR-23		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		16.1	0.670	2.00	mg/L		10	JLD1	04/28/23	0247	2419737	1
Sulfate		1610	26.6	80.0	mg/L		200	JLD1	04/28/23	0317	2419737	2
Fluoride		0.363	0.0330	0.100	mg/L		1	JLD1	04/26/23	2250	2419737	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		0.369	0.0260	0.0750	mg/L	1.00	5	SKJ	05/03/23	1647	2420021	4
Calcium		221	0.400	1.00	mg/L	1.00	5					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		2080	4.76	20.0	mg/L			CH6	05/01/23	1353	2421004	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	EM2	05/01/23	1535	2420018

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 3005A/6020B	
5	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: May 10, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-BRGWC-25I	Project:	GPCC00101
Sample ID:	619768011	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	24-APR-23 13:39		
Receive Date:	26-APR-23		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		6.25			SU			EOS1	04/24/23	1339	2419622	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		7.94	0.0670	0.200	mg/L		1	JLD1	04/27/23	0020	2419737	2
Fluoride		0.222	0.0330	0.100	mg/L		1					
Sulfate		204	3.33	10.0	mg/L		25	JLD1	04/28/23	0347	2419737	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Calcium		66.0	0.400	1.00	mg/L	1.00	5	SKJ	05/03/23	1649	2420021	4
Boron		1.49	0.0520	0.150	mg/L	1.00	10	SKJ	05/03/23	1618	2420021	5
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		389	2.38	10.0	mg/L			CH6	05/01/23	1353	2421004	6

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	EM2	05/01/23	1535	2420018

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	

Notes:

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Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-BRGWC-25I	Project:	GPCC00101
Sample ID:	619768011	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-BRGWC-52I	Project:	GPCC00101
Sample ID:	619768012	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	24-APR-23 15:38		
Receive Date:	26-APR-23		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		6.63			SU			EOS1	04/24/23	1538	2419622	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		5.85	0.0670	0.200	mg/L		1	JLD1	04/27/23	0050	2419737	2
Fluoride	J	0.0478	0.0330	0.100	mg/L		1					
Sulfate		137	3.33	10.0	mg/L		25	JLD1	04/28/23	0417	2419737	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Calcium		42.4	0.0800	0.200	mg/L	1.00	1	SKJ	05/05/23	1504	2420021	4
Boron		1.49	0.0520	0.150	mg/L	1.00	10	SKJ	05/03/23	1620	2420021	5
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		287	2.38	10.0	mg/L			CH6	05/01/23	1353	2421004	6

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	EM2	05/01/23	1535	2420018

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	

Notes:

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Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-BRGWC-52I	Project:	GPCC00101
Sample ID:	619768012	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-IW-B-1	Project:	GPCC00101
Sample ID:	619768013	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	24-APR-23 11:38		
Receive Date:	26-APR-23		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		6.08			SU			EOS1	04/24/23	1138	2419622	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		0.850	0.0670	0.200	mg/L		1	JLD1	04/27/23	0220	2419737	2
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate		21.8	0.266	0.800	mg/L		2	JLD1	04/28/23	0546	2419737	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		0.378	0.0260	0.0750	mg/L	1.00	5	SKJ	05/03/23	1653	2420021	4
Calcium		51.3	0.400	1.00	mg/L	1.00	5					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		217	2.38	10.0	mg/L			CH6	05/01/23	1353	2421004	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	EM2	05/01/23	1535	2420018

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 3005A/6020B	
5	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: May 10, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-PZ-44	Project:	GPCC00101
Sample ID:	619768014	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	25-APR-23 10:12		
Receive Date:	26-APR-23		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		6.24			SU			EOS1	04/25/23	1012	2419622	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		42.4	1.33	4.00	mg/L		10	JLD1	04/28/23	0716	2419737	2
Chloride		5.98	0.0670	0.200	mg/L		1	JLD1	04/27/23	0249	2419737	3
Fluoride	J	0.0659	0.0330	0.100	mg/L		1					
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		1.32	0.0520	0.150	mg/L	1.00	10	SKJ	05/03/23	1622	2420021	4
Calcium		25.5	0.0800	0.200	mg/L	1.00	1	SKJ	05/03/23	1659	2420021	5
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		168	2.38	10.0	mg/L			CH6	05/01/23	1353	2421004	6

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	EM2	05/01/23	1535	2420018

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	

Notes:

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Certificate of Analysis

Report Date: May 10, 2023

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-PZ-44	Project:	GPCC00101
Sample ID:	619768014	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: May 10, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-DEWTR-DW-B1	Project:	GPCC00101
Sample ID:	619768015	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	25-APR-23 14:05		
Receive Date:	26-APR-23		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		6.64			SU			EOS1	04/25/23	1405	2419622	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	0.0716	0.0330	0.100	mg/L		1	JLD1	04/27/23	0319	2419737	2
Chloride		33.1	3.35	10.0	mg/L		50	JLD1	04/28/23	0746	2419737	3
Sulfate		460	6.65	20.0	mg/L		50					
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		1.68	0.0520	0.150	mg/L	1.00	10	SKJ	05/03/23	1701	2420021	4
Calcium		152	0.800	2.00	mg/L	1.00	10					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		848	4.76	20.0	mg/L			CH6	05/01/23	1353	2421004	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	EM2	05/01/23	1535	2420018

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 3005A/6020B	
5	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: May 10, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-BRGWC-47
Sample ID: 619768016
Matrix: WG
Collect Date: 25-APR-23 15:31
Receive Date: 26-APR-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		5.64			SU			EOS1	04/25/23	1531	2419622	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		1390	13.3	40.0	mg/L		100	JLD1	04/28/23	0816	2419737	2
Chloride		4.68	0.335	1.00	mg/L		5	JLD1	04/27/23	0349	2419737	3
Fluoride	U	ND	0.165	0.500	mg/L		5					
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		0.716	0.0520	0.150	mg/L	1.00	10	SKJ	05/03/23	1703	2420021	4
Calcium		334	0.800	2.00	mg/L	1.00	10					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1990	4.76	20.0	mg/L			CH6	05/01/23	1353	2421004	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	EM2	05/01/23	1535	2420018

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 3005A/6020B	
5	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: May 10, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-SW-APB	Project:	GPCC00101
Sample ID:	619768017	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	25-APR-23 16:20		
Receive Date:	26-APR-23		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		7.49			SU			EOS1	04/25/23	1620	2419622	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		34.7	3.35	10.0	mg/L		50	JLD1	04/28/23	0846	2419737	2
Sulfate		581	6.65	20.0	mg/L		50					
Fluoride		0.702	0.0330	0.100	mg/L		1	JLD1	04/27/23	0419	2419737	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		1.50	0.0520	0.150	mg/L	1.00	10	SKJ	05/03/23	1705	2420021	4
Calcium		151	0.800	2.00	mg/L	1.00	10					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		868	4.76	20.0	mg/L			CH6	05/01/23	1353	2421004	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	EM2	05/01/23	1535	2420018

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 3005A/6020B	
5	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: May 10, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-APBCD-FD-03	Project:	GPCC00101
Sample ID:	619768018	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	25-APR-23 12:00		
Receive Date:	26-APR-23		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		0.685	0.0330	0.100	mg/L		1	JLD1	04/27/23	0449	2419737	1
Chloride		33.8	3.35	10.0	mg/L		50	JLD1	04/28/23	0915	2419737	2
Sulfate		570	6.65	20.0	mg/L		50					
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		1.59	0.0520	0.150	mg/L	1.00	10	SKJ	05/03/23	1707	2420021	3
Calcium		162	0.800	2.00	mg/L	1.00	10					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		860	4.76	20.0	mg/L			CH6	05/01/23	1353	2421004	4

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	EM2	05/01/23	1535	2420018

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 3005A/6020B	
4	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: May 10, 2023

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-APBCD-FD-01	Project:	GPCC00101
Sample ID:	619768019	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	25-APR-23 12:00		
Receive Date:	26-APR-23		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		7.95	0.0670	0.200	mg/L		1	JLD1	04/27/23	0619	2419737	1
Fluoride		0.215	0.0330	0.100	mg/L		1					
Sulfate		222	3.33	10.0	mg/L		25	JLD1	04/28/23	0945	2419737	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		1.54	0.0520	0.150	mg/L	1.00	10	SKJ	05/03/23	1709	2420021	3
Calcium		66.0	0.800	2.00	mg/L	1.00	10					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		392	2.38	10.0	mg/L			CH6	05/01/23	1353	2421004	4

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	EM2	05/01/23	1535	2420018

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 3005A/6020B	
4	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

QC Summary

Report Date: May 10, 2023

Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia

Contact: **Joju Abraham**

Workorder: **619768**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography										
Batch 2419737										
QC1205386308 619768001 DUP										
Chloride		2.59		2.61	mg/L	0.573		(0%-20%)	JLD1	04/27/23 07:48
Fluoride	J	0.0690	J	0.0425	mg/L	47.5 ^		(+/-0.100)		
Sulfate		13.0		13.0	mg/L	0.0054		(0%-20%)		
QC1205386310 619768012 DUP										
Chloride		5.85		5.85	mg/L	0.0342		(0%-20%)		04/27/23 01:20
Fluoride	J	0.0478	J	0.0550	mg/L	14 ^		(+/-0.100)		
Sulfate		137		138	mg/L	0.874		(0%-20%)		04/28/23 04:47
QC1205386307 LCS										
Chloride	5.00			4.87	mg/L		97.4	(90%-110%)		04/27/23 07:18
Fluoride	2.50			2.53	mg/L		101	(90%-110%)		
Sulfate	10.0			9.84	mg/L		98.4	(90%-110%)		
QC1205386306 MB										
Chloride			U	ND	mg/L					04/27/23 06:48
Fluoride			U	ND	mg/L					
Sulfate			U	ND	mg/L					
QC1205386309 619768001 PS										
Chloride	5.00	2.59		7.49	mg/L		98	(90%-110%)		04/27/23 08:18

QC Summary

Workorder: **619768**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography											
Batch 2419737											
Fluoride	2.50	J	0.0690		2.51	mg/L		97.7	(90%-110%)	JLD1	04/27/23 08:18
Sulfate	10.0		13.0		23.1	mg/L		101	(90%-110%)		
QC1205386311 619768012 PS											
Chloride	5.00		5.85		11.0	mg/L		102	(90%-110%)		04/27/23 01:50
Fluoride	2.50	J	0.0478		2.48	mg/L		97.5	(90%-110%)		
Sulfate	10.0		5.47		15.7	mg/L		103	(90%-110%)		04/28/23 05:16
Metals Analysis - ICPMS											
Batch 2420021											
QC1205386950 LCS											
Boron	0.100				0.114	mg/L		114	(80%-120%)	SKJ	05/03/23 15:56
Calcium	2.00				2.15	mg/L		108	(80%-120%)		
QC1205386949 MB											
Boron				U	ND	mg/L					05/03/23 15:54
Calcium				U	ND	mg/L					
QC1205386951 619768001 MS											
Boron	0.100	J	0.0454		0.159	mg/L		114	(75%-125%)		05/05/23 14:53
Calcium	2.00		6.57		8.65	mg/L		104	(75%-125%)		
QC1205386952 619768001 MSD											
Boron	0.100	J	0.0454		0.153	mg/L	3.75	108	(0%-20%)		05/05/23 14:55
Calcium	2.00		6.57		8.87	mg/L	2.57	115	(0%-20%)		

QC Summary

Workorder: 619768

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2420021										
QC1205386953 619768001 SDILT										
Boron	J	9.09	U	ND	ug/L	N/A		(0%-20%)	SKJ	05/05/23 14:59
Calcium		1310		296	ug/L	12.6		(0%-20%)		
Solids Analysis										
Batch 2419973										
QC1205386823 619628002 DUP										
Total Dissolved Solids		1330		1390	mg/L	4.41		(0%-5%)	CH6	04/27/23 15:33
QC1205386821 LCS										
Total Dissolved Solids	300			304	mg/L		101	(95%-105%)		04/27/23 15:33
QC1205386820 MB										
Total Dissolved Solids			U	ND	mg/L					04/27/23 15:33
Batch 2421000										
QC1205388849 619868005 DUP										
Total Dissolved Solids		262		263	mg/L	0.381		(0%-5%)	CH6	05/01/23 13:12
QC1205388846 LCS										
Total Dissolved Solids	300			301	mg/L		100	(95%-105%)		05/01/23 13:12
QC1205388847 LCSD										
Total Dissolved Solids	300			303	mg/L	0.662	101	(0%-5%)		05/01/23 13:12
QC1205388845 MB										
Total Dissolved Solids			U	ND	mg/L					05/01/23 13:12
Batch 2421004										
QC1205388854 619768014 DUP										
Total Dissolved Solids		168		174	mg/L	3.51		(0%-5%)	CH6	05/01/23 13:53

QC Summary

Workorder: **619768**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Solids Analysis											
Batch 2421004											
QC1205388853 LCS											
Total Dissolved Solids	300			300	mg/L		100	(95%-105%)	CH6	05/01/23	13:53
QC1205388852 MB											
Total Dissolved Solids			U	ND	mg/L					05/01/23	13:53

Notes:

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- N Metals--The Matrix spike sample recovery is not within specified control limits
- H Analytical holding time was exceeded
- < Result is less than value reported
- > Result is greater than value reported
- h Preparation or preservation holding time was exceeded
- R Sample results are rejected
- Z Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
- d 5-day BOD--The 2:1 depletion requirement was not met for this sample
- ^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
- N/A RPD or %Recovery limits do not apply.
- ND Analyte concentration is not detected above the detection limit
- E %difference of sample and SD is >10%. Sample concentration must meet flagging criteria
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- E General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
- Q One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
- FB Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
- N1 See case narrative
- Y Other specific qualifiers were required to properly define the results. Consult case narrative.
- R Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.
- B The target analyte was detected in the associated blank.
- e 5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes
- J See case narrative for an explanation

QC Summary

Workorder: **619768**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Technical Case Narrative
Georgia Power Company
SDG #: 619768

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 35
Analytical Batch: 2420021

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 14
Preparation Batch: 2420018

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
619768001	BRA-BRGWA-23S
619768002	BRA-PZ-66I
619768003	BRA-PZ-59I
619768004	BRA-PZ-65I
619768005	BRA-BRGWC-45
619768006	BRA-PZ-58I
619768007	BRA-PZ-60I
619768008	BRA-BRGWC-50
619768009	BRA-PZ-63I
619768010	BRA-APBCD-FD-02
619768011	BRA-BRGWC-25I
619768012	BRA-BRGWC-52I
619768013	BRA-IW-B-1
619768014	BRA-PZ-44
619768015	BRA-DEWTR-DW-B1
619768016	BRA-BRGWC-47
619768017	BRA-SW-APB
619768018	BRA-APBCD-FD-03
619768019	BRA-APBCD-FD-01
1205386949	Method Blank (MB)**ICP-MS**
1205386950	Laboratory Control Sample (LCS)
1205386953	619768001(BRA-BRGWA-23SL) Serial Dilution (SD)
1205386951	619768001(BRA-BRGWA-23SS) Matrix Spike (MS)
1205386952	619768001(BRA-BRGWA-23SSD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples 619768002 (BRA-PZ-66I), 619768003 (BRA-PZ-59I), 619768004 (BRA-PZ-65I), 619768006 (BRA-PZ-58I), 619768007 (BRA-PZ-60I), 619768008 (BRA-BRGWC-50), 619768009 (BRA-PZ-63I), 619768010 (BRA-APBCD-FD-02), 619768011 (BRA-BRGWC-25I), 619768012 (BRA-BRGWC-52I), 619768013 (BRA-IW-B-1), 619768014 (BRA-PZ-44), 619768015 (BRA-DEWTR-DW-B1), 619768016 (BRA-BRGWC-47), 619768017 (BRA-SW-APB), 619768018 (BRA-APBCD-FD-03) and 619768019 (BRA-APBCD-FD-01) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument. Per the SOP, sample 619768001 (BRA-BRGWA-23S) was diluted due to internal standard recoveries outside the acceptable control limits.

Analyte	619768									
	001	**002**	**003**	**004**	**006**	**007**	**008**	**009**	**010**	**011**
Boron	5X	1X	1X	1X	5X	5X	5X	5X	5X	10X
Calcium	5X	5X	10X	5X	5X	10X	5X	5X	5X	5X

Analyte	619768							
	012	**013**	**014**	**015**	**016**	**017**	**018**	**019**
Boron	10X	5X	10X	10X	10X	10X	10X	10X
Calcium	1X	5X	1X	10X	10X	10X	10X	10X

General Chemistry

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 31
Analytical Batch: 2419737

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
619768001	BRA-BRGWA-23S
619768002	BRA-PZ-66I
619768003	BRA-PZ-59I
619768004	BRA-PZ-65I
619768005	BRA-BRGWC-45
619768006	BRA-PZ-58I
619768007	BRA-PZ-60I
619768008	BRA-BRGWC-50
619768009	BRA-PZ-63I
619768010	BRA-APBCD-FD-02
619768011	BRA-BRGWC-25I

619768012	BRA-BRGWC-52I
619768013	BRA-IW-B-1
619768014	BRA-PZ-44
619768015	BRA-DEWTR-DW-B1
619768016	BRA-BRGWC-47
619768017	BRA-SW-APB
619768018	BRA-APBCD-FD-03
619768019	BRA-APBCD-FD-01
1205386306	Method Blank (MB)
1205386307	Laboratory Control Sample (LCS)
1205386308	619768001(BRA-BRGWA-23S) Sample Duplicate (DUP)
1205386309	619768001(BRA-BRGWA-23S) Post Spike (PS)
1205386310	619768012(BRA-BRGWC-52I) Sample Duplicate (DUP)
1205386311	619768012(BRA-BRGWC-52I) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Sample Dilutions
The following samples 1205386310 (BRA-BRGWC-52IDUP), 1205386311 (BRA-BRGWC-52IPS), 619768002 (BRA-PZ-66I), 619768003 (BRA-PZ-59I), 619768004 (BRA-PZ-65I), 619768005 (BRA-BRGWC-45), 619768006 (BRA-PZ-58I), 619768007 (BRA-PZ-60I), 619768008 (BRA-BRGWC-50), 619768009 (BRA-PZ-63I), 619768010 (BRA-APBCD-FD-02), 619768011 (BRA-BRGWC-25I), 619768012 (BRA-BRGWC-52I), 619768013 (BRA-IW-B-1), 619768014 (BRA-PZ-44), 619768015 (BRA-DEWTR-DW-B1), 619768016 (BRA-BRGWC-47), 619768017 (BRA-SW-APB), 619768018 (BRA-APBCD-FD-03) and 619768019 (BRA-APBCD-FD-01) were diluted because target analyte concentrations exceeded the calibration range. Samples 619768002 (BRA-PZ-66I), 619768003 (BRA-PZ-59I), 619768004 (BRA-PZ-65I), 619768006 (BRA-PZ-58I), 619768007 (BRA-PZ-60I), 619768008 (BRA-BRGWC-50) and 619768016 (BRA-BRGWC-47) were diluted to minimize matrix effects on instrument performance. Samples 619768002 (BRA-PZ-66I), 619768003 (BRA-PZ-59I), 619768004 (BRA-PZ-65I), 619768005 (BRA-BRGWC-45), 619768006 (BRA-PZ-58I), 619768007 (BRA-PZ-60I), 619768008 (BRA-BRGWC-50), 619768009 (BRA-PZ-63I) and 619768016 (BRA-BRGWC-47) were diluted based on historical data. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	619768									
	002	**003**	**004**	**005**	**006**	**007**	**008**	**009**	**010**	**011**
Chloride	5X	10X	5X	5X	5X	5X	5X	5X	10X	1X
Fluoride	5X	10X	5X	1X	5X	5X	5X	1X	1X	1X
Sulfate	250X	250X	250X	25X	100X	250X	200X	25X	200X	25X

Analyte	619768							
	012	**013**	**014**	**015**	**016**	**017**	**018**	**019**
Chloride	1X	1X	1X	50X	5X	50X	50X	1X
Fluoride	1X	1X	1X	1X	5X	1X	1X	1X
Sulfate	25X	2X	10X	50X	100X	50X	50X	25X

Sample Re-analysis
Sample 619768009 (BRA-PZ-63I) was re-analyzed to verify the result.

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 20
Analytical Batch: 2419973

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
619768001	BRA-BRGWA-23S
1205386820	Method Blank (MB)
1205386821	Laboratory Control Sample (LCS)
1205386823	619628002(NonSDG) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments
Sample filtration took > 10 minutes; therefore as prescribed in the method, a reduced aliquot was used. 1205386823 (Non SDG 619628002DUP).

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 20
Analytical Batch: 2421000

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
619768002	BRA-PZ-66I
619768003	BRA-PZ-59I
1205388845	Method Blank (MB)
1205388846	Laboratory Control Sample (LCS)
1205388847	Laboratory Control Sample Duplicate (LCSD)
1205388849	619868005(NonSDG) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and

procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments
Sample filtration took > 10 minutes; therefore as prescribed in the method, a reduced aliquot was used. 619768002 (BRA-PZ-66I) and 619768003 (BRA-PZ-59I).

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 20
Analytical Batch: 2421004

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
619768004	BRA-PZ-65I
619768005	BRA-BRGWC-45
619768006	BRA-PZ-58I
619768007	BRA-PZ-60I
619768008	BRA-BRGWC-50
619768009	BRA-PZ-63I
619768010	BRA-APBCD-FD-02
619768011	BRA-BRGWC-25I
619768012	BRA-BRGWC-52I
619768013	BRA-IW-B-1
619768014	BRA-PZ-44
619768015	BRA-DEWTR-DW-B1
619768016	BRA-BRGWC-47
619768017	BRA-SW-APB
619768018	BRA-APBCD-FD-03
619768019	BRA-APBCD-FD-01
1205388852	Method Blank (MB)
1205388853	Laboratory Control Sample (LCS)
1205388854	619768014(BRA-PZ-44) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments
Sample filtration took > 10 minutes; therefore as prescribed in the method, a reduced aliquot was used. 619768004 (BRA-PZ-65I), 619768006 (BRA-PZ-58I), 619768007 (BRA-PZ-60I), 619768008 (BRA-BRGWC-50), 619768010 (BRA-APBCD-FD-02), 619768015 (BRA-DEWTR-DW-B1), 619768016 (BRA-BRGWC-47), 619768017 (BRA-SW-APB) and 619768018 (BRA-APBCD-FD-03).

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Page: _____ of _____
Project # _____
GEL Quote #: _____
COC Number [1]: _____
PO Number:

GEL Laboratories LLC 619768
gel.com | Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power | Phone # 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - BCD Additional | Fax #
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: J. Bousfield ACC | Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Dissolved Cl, F, SO4 EPA 300	TDS (not Field Filtered) SM 2540C	NI Dissolved App III Metals* EPA 6020	<-- Preservative Type (6)	Comments
BRA- BR GWA-23S	04/24/23	0440	G	Y	WG			3	✓	✓	✓	field pH = 5.55	Note: extra sample is required for sample specific QC Task_Code: BRA-CCR-OTH-2023____
BRA- PZ-66I	04/24/23	1210	G	Y	WG			3	✓	✓	✓	field pH = 5.72	
BRA- PZ-54I	04/24/23	1336	G	Y	WG			3	✓	✓	✓	field pH = 3.70	
BRA- PZ-65I	04/24/23	1715	G	Y	WG			3	✓	✓	✓	field pH = 4.22	
BRA- BR GWC-45	04/24/23	1325	G	Y	WG			3	✓	–	✓	field pH = 5.40	
BRA- PZ-58I	04/25/23	0940	G	Y	WG			3	✓	✓	✓	field pH = 3.93	
BRA- PZ-60I	04/25/23	1050	G	Y	WG			3	✓	✓	✓	field pH = 4.58	
BRA- BR GWC-5D	04/25/23	1315	G	Y	WG			3	✓	✓	✓	field pH = 5.09	
BRA- PZ-63I	04/25/23	1500	G	Y	WG			3	✓	✓	✓	field pH = 5.59	
BRA- APBCD-FD-02	04/25/23	—	G	Y	W			3	✓	✓	✓	field pH = —	

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1		4/26/23	0410		4/26/23	9:10
2		4/26/23	208		4/26/23	2:08
3						

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

TAT Requested: Normal: x Rush: ____ Specify: _____ (Subject to Surcharge)

Fax Results: [ ] Yes [x] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [x] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * Metals: B,Ca

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] Yes [ ] No *Cooler Temp:* ____ °C

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.

4.) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix W = Water

5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. *8260B* - 3, *6010B/7470A* - 1).

6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic Hg= Mercury
Ba = Barium Se= Selenium
Cd = Cadmium Ag= Silver
Cr = Chromium MR= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

Page: _____ of _____
Project # _____
GEL Quote #: _____
COC Number [1]: _____
PO Number:

GEL Laboratories LLC
gel.com
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power | Phone # 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - BCD Additional | Fax #
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: T. Goble ACC | Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Dissolved Cl, F, SO4 EPA 300	TDS (not Field Filtered) SM 2540C	Dissolved App III Metals* EPA 6020	NI	<-- Preservative Type (6)	Comments
BRA- BRGWC-25I	04/24/23	1339	G	Y	WG			3	✓	✓	✓			field pH = 6.25
BRA- BRGWC-52I	04/24/23	1538	G	Y	WG			3	✓	✓	✓			field pH = 6.63
BRA- IW-B-1	04/24/23	1138	G	Y	WG			3	✓	✓	✓			field pH = 6.08
BRA- PZ-44	04/25/23	1012	G	Y	WG			3	✓	✓	✓			field pH = 6.24
BRA- DEWATR-DW-1	04/25/23	1405	G	Y	WG			3	✓	✓	✓			field pH = 6.64
BRA- PZ-47	04/25/23	1531	G	Y	WG			3	✓	✓	✓			field pH = 5.64
BRA- SW-AIPB	04/25/23	1620	G	Y	WS			3	✓	✓	✓			field pH = 7.49
BRA- APBCD-FD-03	04/25/23	—	G	Y	W			3	✓	✓	✓			field pH = —
BRA- APBCD-FD-01	04/24/23	—	G	Y	W			3	✓	✓	✓			field pH = —
BRA-														field pH =

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	Taylor Goble	4-26-23	0910	[illegible]	4/26/23	9:10
2	[illegible]	4/24/23	204	[illegible]	4/26/23	2:08
3						

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

TAT Requested: Normal: x Rush: ____ Specify: _____ (Subject to Surcharge)

Fax Results: [ ] Yes [x] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [x] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * **Metals: B,Ca**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] Yes [ ] No *Cooler Temp:* ____ °C

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **WD**=Drinking Water, **WG**=Groundwater, **WS**=Surface Water, **WW**=Waste Water, **WL**=Leachate, **SO**=Soil, **SE**=Sediment, **SL**=Sludge, **WQ**=Water Quality Control Matrix W= water

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B, 6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	**SDG/AR/COC/Work Order:** 619765 / 619768
Received By:	**Date Received:** 4/26/23
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		X	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		X	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		X	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM / mR/Hr **Classified as: Rad 1 Rad 2 Rad 3**
D) Did the client designate samples are hazardous?		X	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		X	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	**Comments/Qualifiers (Required for Non-Conforming Items)**
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: (Wet Ice) Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: 4
4	Daily check performed and passed on IR temperature gun?	✓			**Temperature Device Serial #:** IR2-21 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?			✓	Sample ID's and Containers Affected: Metals BRA-BRLFC-10 BRA-BRGWX-52I BRA-IW-B-1 If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	~~Sample ID's on COC match ID's on~~ bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?			✓	Circle Applicable: No dates on containers No times on containers COC missing info Other (describe) BRA-APBCD-FD01 collect date 4/24/23 on containers no time.
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials MG Date 4/27/23 Page 1 of 1

List of current GEL Certifications as of 10 May 2023

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122023-4
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2022-160
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-22-20
Utah NELAP	SC000122022-37
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

Page: 1 of 1
Project #
Quote #:
COC Number (1):
PO Number:

Chain of Custody and Analytical Request

Work Order Number:

Stratum Reservoir (Isotech)
Sample Receiving
1308 Parkland Ct
Champaign, IL 61821-1826
Contact: Margaret Gentile

Client Name: Arcadis | Phone # 510 432 6251
Project/Site Name: Plant Branch Ash Ponds - BCD Additional | Fax #
Collected By: ACC | Send Results To: <Margaret.Gentile@arcadis.com>

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Isotopes										<-- Preservative Type (6)
BRA- BRGWC-32S	05/08/24	1155	G	Y	WG			1	✓										
BRA- BRGWC-27I	05/08/24	1420	G	Y	WG			1	✓										

Comments
Note: extra sample is required for sample specific QC
Task_Code: BRA-CCR-OTH-20240508

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time		Received by (signed)	Date	Time
1		5/8/24	1600	1	UPS	5/8/24	1600
2				2			
3				3	Brody Tuggle / SR Isotech	5/9/24	900

TAT Requested: Normal: x Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [x] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [x] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks:

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** ____ °C

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **WD**=Drinking Water, **WG**=Groundwater, **WS**=Surface Water, **WW**=Waste Water, **WL**=Leachate, **SO**=Soil, **SE**=Sediment, **SL**=Sludge, **WQ**=Water Quality Control Matrix

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

ISOTECH
a Stratum Reservoir brand
www.isotechlabs.com

Lab #: 921466 **Job #:** 58573 **CoreTrac:** IS-105648

Sample Name: BRA-BRGWC-32S

Company: Arcadis U.S., Inc.

Container: Plastic Bottle

Field/Site Name: Plant Branch Ash Ponds - BCD Additional

Date Sampled: 05/08/2024 11:55 **Date Received:** 05/09/2024 **Date Reported:** 06/06/2024

δD of water	-18.4‰ relative to VSMOW
$\delta^{18}O$ of water	-3.66‰ relative to VSMOW
Tritium content of water	na
$\delta^{13}C$ of DIC	na
^{14}C content of DIC	na
$\delta^{15}N$ of nitrate	na
$\delta^{18}O$ of nitrate	na
δ^{34} of sulfate	5.5‰ relative to VCDT
$\delta^{18}O$ of sulfate	19.9‰ relative to VSMOW
Vacuum Distilled? *	No

Remarks:

nd = not detected. na = not analyzed.
*Indicates if vacuum distillation was utilized for hydrogen and oxygen isotopic analysis of water

ISOTECH
a Stratum Reservoir brand
www.isotechlabs.com

Lab #: 921467 **Job #:** 58573 **CoreTrac:** IS-105648

Sample Name: BRA-BRGWC-27I

Company: Arcadis U.S., Inc.

Container: Plastic Bottle

Field/Site Name: Plant Branch Ash Ponds - BCD Additional

Date Sampled: 05/08/2024 14:20 **Date Received:** 05/09/2024 **Date Reported:** 06/06/2024

δD of water	-6.9‰ relative to VSMOW
$\delta^{18}O$ of water	-1.18‰ relative to VSMOW
Tritium content of water	na
$\delta^{13}C$ of DIC	na
^{14}C content of DIC	na
$\delta^{15}N$ of nitrate	na
$\delta^{18}O$ of nitrate	na
δ^{34} of sulfate	7.7‰ relative to VCDT
$\delta^{18}O$ of sulfate	20.1‰ relative to VSMOW
Vacuum Distilled? *	No

Remarks:

nd = not detected. na = not analyzed.
*Indicates if vacuum distillation was utilized for hydrogen and oxygen isotopic analysis of water